



EXPRODUAL & GENERAL SPRICES, 30 Park Plor. And York 97th Published by Experiments, 1th Spring Company, Inc. CE CAMBIGO, Fro., S. CONGOLO, THIS. S. W. CHOWA, SHI'Y Publisher of SCIENCE & INVENTION, PAGES NEWS, AMAZING STORIES, RADIO NEWS MASSO STEEMACESSAGE

CONTENTS

Contents for May	
Trip to the Center of the Earth By Jules Verse	100
fermaric Revelation By Edgar Allan Por	12
the Crystal Rag By H. G. Wells	12
he Infesite Vision By Charles C. Wiss	131
he Man From the Atom (Sequel) By G. Peyton Wertenbaker	14
off On a Comet (Conclusion) By Jules Ferns	16

Hauppins this mostly story, "The Depois End", by H. G. COPPERISHT ACRESOWLEDGMENT "Off on a Conet", and "A Toly is the Conner of the Earth" by

In Our Next Issue: THOUTHE HACKENSAW'S SECRETS", by Clement *TOCTOR HACKENSAWS SECRETS", by Glorier Francist, by popular requests. A new and bifferin en-pablished enery of the great and Distribute Dr. Hacken-new, which can see full to hold your interest from start

"THE RUNAWAY SKYSCHAPER", by Murray Lein-ezt, a strey of the Franth Dimension, in which the great Metropolium Life skyscraper in New York vanishes was "THE SCHENTIFIC ADVENTURES OF MR. FOSvisited "Mrs. Freeligh Invento the Senditremobile"

Jules Verne, (second state/frees), whereth our harness have now ponetrated to subcurrences depths and find a SWILL DEDUCATE THERE' by Charles & Walton a radia save that helds were interest and injects only a few Azather weird story by Edger Alian Poe, which we are seen upp will file.

description of the property of the property of the second A . Marris Street Adventures Supremorphisms and





THE MAGAZINE OF

MAY, 1926 NO. 2

HUGO GERNSBACK, F.R.S., Editor
DR. T. O'CONOR SLOANE, M. A., Ph.D.; Associate Editor

Editorial and Graceal Officer - - Si Park Place, New York, N. Y.

Extravagant Fiction Today - - - - -

THANK YOU!

By HUGO GERNBACK, F.R.S.

WIE. first læme of AMAEINO STORIES and each time gret
has been en the streetstands only short

and been of the magadine, only creat
ordered street of the magadine, only creat
off th

during this short time, we have been supposed in classification of the course of the course, energy the West-wave of the course, course of the course, which could be compared to the course of the co

Autor an, it is your paper, and we are strong hard to please you. Judging from the various comments, the first issue of AMAZIKG STORIES was just about right—the storyes pleased and the length of the aborter stories and the division of the longence second satisfactory. And it we with a forling of gratification that we

and were with a footing of gradification that we model the climbt uncannous conformation of the co-salled "excesspon" by so of story that occurs no correspondents essented to heave a great sight of regarding the same of the conformation of the co

The letters, extracts from which are printed by on, seem to best expease its general treed.

Mr. Gese ge W. Anderson, of Pairmonte, W. Vi and history of the printer of the

managing Stories is entertaining and has food for thought that no other fittion work could begin to compete with." Raymond E. Dickson, Air Mail Radio Station, Iowa City, Iowa, 2290: "I can read those stories over several times NEACH, FAS.

and such time are something over from them,"
Mathed H. Ray, Revolting N. V., eagus "You will
groundly find that when one has road your magnation
he will become so extrapatorie, so charte over les
within the property of the contraction of the convirtue. On His Trends. Even new my wide is
accitantly waiting for me to fraith this first issue, so
that she may round it begraff?

And the great promises along to the said section of a bit by ferrors been every whole the suggestion of the bit by the said of the said of

"The Mixtuits of the Options", by Vision Ream-"The Mixtuits of the Options", by Vision Ream-"The Mixtuits of the Options", by Vision Reamcarrage, there is H. G. Willin, with his "The Ber" of the William of the Option of the Option of the New Stars and effective to good this them we have made that the option of the Option of the Option of the have not a good effective to good this them we have made as the Option of the Option of the Option of the Option is not related to the Option of the Option of the is not related to the Option of the Option of the is not related to the Option of the Option of the Stories of the Option of the Option of the Option of the Stories of the Option of the Option of the Option of the Stories of the Option of the Option of the Option of the Stories of the Option of the Option of the Option of the Stories of the Option of the Option of the Option of the Stories of the Option of the O

thanchy give you more motorial.

The success of AMAZING STORIES is entiin user hands. We shall do our yout—we ple
curseives to do everything to merit your confides

A TRIP to the CENTER of the EARTH "By Jules Verne"



impossible for me to answer a single word. The syldron was unconversable, encodelining

Introduction to the Story

The Weeks in a Balloon," Julia Kerne words in right received or error truly asserted to Of these reconcluded inventions of the homen until. A Trip to the Center of the Earth' uses the first to be compileted in its present form. It was published in 1864, in a carries of basis by Verne, demonstrated "Vegapas Extraordinative." This series, started in that your by the publisher Healt, has been continued

This particions "Voyage" has noticense oces declared our author's successive. In it he for the first time gives free role to that hold get releatifeedby smed inagunation solvening he has constructed for as in fancy the extire universe. There is nothing to all the during visions of this tale which, one

the softey over artendist world dealows inspectible. The statement of the courth is still missions; and there were present that the still missions and there were present that the court is still missions; and there were the still missions and postnessing for weeklin. Therefore, and the still mission is still mission to the still mission and postness and postnessing the still mission transport of the still mission transport of the still mission to the still mission the still mission to the

many of the ancient forms of life new artises upon certif's surface.

The main scientific objection to this, as undeed to most of the usere family of Vermi's take, life in the estrongent means he employs to bring his caplorers home again, from their recities sentiere. But, as remement obviously demands their retorn

antentiking accidents and coincidences they except the doors they have invited.

MIKING back to all that has occurred to ly able to believe in the reality of my adventures. They were truly so wonderful that even now I am bowtfored

when I think of them. My uncle was a German, though I am English, he having married my nother's syster. Barne were much attached to his fatheriess nephew, he invited

me to study under him to his home in the fatherland. This home was in a large town, and my serie was a professor of philosophy, chemistry, goology, mineralogy, and many other ologica.

tory-ray uncle being absent at the time-I suddealy felt the necessity of renovating the tissues old French cook, when my uncle, Professor Von Hardwire, anddenly spined the street door and

came rushing upoteirs. New Professor Hardwigg, my worthy uncle, is

ebey; and scarcely had to attend open him. "Harry-Harry-Harry"

I hastered to obey, but room, jumping three steps ing his right foot upon the hading, "Harry!"

To tell the truth, at that mement I was for more. interested in the opention stitute our dinner than in

esting than sodium, an orgelette more temption articholes of ten times more value than any

in this category supply themselves with informaothers, and lay up stores in order to diffuse them so my excellent untils. Professor Hardwire: he studied, he consumed the midnight off, he pored over heavy tomes, and digested hoge quartes and folios,

stammered, and witen intent upon explaining the at fault, and allode in such a vague way to sun, meen, and store, that few were able to comprehend his meening. To tell the houset truth, when the almost unprenounceable names—names vary much

resembling those of Welsh villages; and my uncle befor year fond of using them, his hebit of stammering was not thereby improved. In fact, there were nerleds in his discourse when he would finally give up and swallow his discomfiture—in a glass of

As I said, my uncle, Professor Hardwigg, was a pury learned man; and I now add, a most kind reletice. I was bornd to him by the double ties of affection and interest. I took deep interest in all his doings, and hoped gome day to be almost as

N his immercal story, "A Trib to the Creter of the only one has been a suggest of the magnitude top of feeting, but he was a section of high onlyer. Bredste this, the trained knowledge of peoplethy, the customs and penhapithes of the various races, made in punitie for

Instead of boring a hale into the houses of the earth,

preservate into the great depths of the globel.

We have no right to atrens that his on the interior of
the earth at an importable, When our deep not expenhe no one, we abould not purge horsely that there can be no life in the depois of the earth. If there is an extrance to a great managhered county within our planet, you are

found there. And, besides, nature has a trick all its rece of eigenventurality incountribles, on its unit actual in the second

useful article, that a company was said in his presears to have made considerable deviation.

truth being told, however, the only article really attracted to my uncie's nose was tobuco. Another peculiarity of his was, that he slways stanged a ward at a time, clenched his fats as if ha

rare thing for me to be Like him, I preferred mineralegy to all the other sciences. My suxiety was to gain real Assoutedge of the earth, Genlowy

us the main objects of life, and in connection with these studies many a fair apacimen of atoms, chalk, or one did we break with our hum-

But before I state the his personal appearance. Alas I my readers will see a very different portrait of him at a future timeafter be has gone through

old: tall, thin, and warz, certain extent, his vast, while his nose was irreverently compared to

were going to hit you, and was, when in one of his

It is further necessary to observe, that he lived in a very nice house, in that very nice street, the Ednishtrane in Hamburg, Though lying in the center of a town, it was perfectly rural in its aspect -half wood, half bricks, with old-fushiound gables of 1842. When I say a nice bouse, I mean a hand-

perpendicular and inclined to fall rate the neighbor-

it for lyr and a magnifount old tree which erew My untile was rich; his house was his own prop-

my notion the best part of his pessentions was his god-daughter. Gretchen, who unfortunately was nway upon a visit on that momentum day old cook, the young lady, the Professor and I were the caly inmates of his borns.

I loved mineralogy, I loved geology. To me there that when the flowers in the drawing-room poin

began to grow, he rose every morning at four o'clock to make them grow quicker by pulling the Having described my unde, I will now give an account of our interview. He received me in his study; a perfect massum, containing every natural me, having estalogued each by my own hand. My

uncle, apparently oblivious of the fart that he had summoned me to his presence, was absorbed in a book. He was negticularly fond of early editions. tall copies, and unique works,

"Wanderful!" he oried, tamping his foreless! "Wenderful-wonderfull" It was one of those vellow-leaved volumes now rurely found on stalls, and to me it appeared to possess but little value. My uncle, however, was in raptures. He admired its

binding, the clearness of its characters, the case with which it council in his hand, and reneated aloud, half-a-dozen times, that it was very, very To my fancy be was making a great from about nothing, but it was not my province to say so. On

the contrary, I professed considerable interest in the subject, and asked him what it was about said. "the celebrated Icelandic author of the twelfth. weginn princes who reigned to Iceland.

which it was written. I hoped at all events it was translated into German. My usels was indignant at panny for a translation. His delight was to have "About as easy as German?" was my insidious My uncle shrussed his shoulders. "The Runio letters at all events," I said, "wre

rather difficult of comprehension." "It is a Runic manuscript, the harmore of the

original population of Iceland, invented by Odin homself," orled my uncle, engry at my ignorance. I was about to venture upon some misulated toke on the subject, when a small scrap of parelement fell out of the leaves. Like a hangry man snatching at about five inches by three and was scrawled over

The lines oreging the next sharter are so exact facultuile of what was written on the venerable piece

derful series of adventures which ever fell to the My uncle looked keenly at the document for some moments then declared that it was Route. The

what did they mean? This was exactly what I Now, as I had a strong convection that the Runis althabet and disject were simply as invention to mystify poor human nature, I was delighted to find

I dif-which was nothing. At all events, the tremuleus motion of his fragers made me think so. "And yet," he muttered to himself, "It is old leekardic, I am sure of it." My uncle ought to have known, for he was a perfect polygiet dictionary to himself. He did not protect, like a certain learned pundit, to speak

It is a matter of great doubt to me now, to what led hom, had not the clock struck two, and our old

"Bother the dinner?" cried my such. But I was hongry, so I sallied forth to the during-room, where I took up my usual quarters. Out of neitheress I Professor, I was surprised. He was not usually so blind to the pleasure of a good dinner. It was the acme of German luxury-parties stop, a hom omeiatte with sorrel trimmings, veal stewed with neuros, delicious fruit, and sparkling Moselle. For

the sake of poring over that musty old piece of parchment, my uncle forbore to share our most. To The old cook and housekeeper was nearly out of her mind. After taking so much trouble, to find My next cuestion related to the language in that her mester did not appear at dinner was a sad disappointment-which as she watched the havee I

was making on the visnes, became also slarm. If my said were to come to table after all? Suddenly, just as I had consumed the last apple and drunk the last gires of wine, a terrible voice

nearly one leap-so load, so fleror was his tone.

A TRIP TO THE CENTER OF THE EARTH 103 GHAPTER II his specticine, and, toking a powerful magnifying

Y ILLINA *HJ+N+N HEFFTHA DATTIFF KIT PATT H JAHHYE FEHTYN AALAA IN 1721744 NO 1+YA 441144 41011A 140 201 FA1ATN b4,141 b 4 4 1 B b

"I cachie," criss my unis, striking the table fercely with his fut, "I declare to you it is Runte-and cautains atom worderful sectet, which I must get at, at any prise."

mann, but the name of a barred professor of the sattenth century, ne clebened alchemist."

Howed as a sum of respect.

"These schemist."

Becon, Jully, Purselsus, were the true, the coly leaves due on if the day. They mode surprising discoveries. May not this Sakrassen, nephew nine, here hidden on this bird of purrishment second on here hidden on this bird of purrishment second saturation.

which I must get at, at very price."

I was about to reply, when he stopped me. "Sit down," he send, quite fercely, "end write to my dictation."

I obeyed. "I will substitute," he said, "a letter of our sphabet for that of the Runn; we will that

ap profound meaning—while I must make coil."

My uncle walked about the room in a state of easttemant silment impossible to describe.

"It may be as, sir," I finishly chourved, "for why carried it from posterity, if it be a media, a worthy discovery?"

"Who—how should I know? Did not Gelifeo make

see with that will produce. Now, begin and make to mistaken."
The detection semmenced with the following isomorphousible result:

envels cornel accorde accorde active forms of the following indicates the following indicate

a secret of his discoveries in reconcition with Scance? But we shall see, Until I discover the meaning of this sections I will number est now along." "Mry dear unele—" I began. "Mry dear unele—" I began. "Now you either," be added. It was fucky I had taken double allowance that they.

Atosar iscore feeabs codrest cental frantis difac ceribo Redii Grantis difac ceribo Redii Serretty giving ne tino to finish, ny uncla santishal tha document feron ny binda and examinal it with the nout rapit and deep attention, after a loar ceribo.

the first place, be conflored, where must be a clue to the meaning. If we could find that, the net would be easy enough, "
I began aericulty to reflect. The prospect of going without find and siesp wie not a preceding cos, so I determined to do my heat to solve the mystery. My made, meanwhile, went on with his mystery. My made, meanwhile, went on with his company of the mystery of the mystery. My made, meanwhile, went on with his company. The way not allower the near arranged. In this

I certainly rould not tell bim, nor doll he expect no to—the conversation being smiderally answered by kinnelf. I dealers of pain in mind of a cryptograph of the conversation being smiderally are supplied to the conversation of the tellers have been written without any real meaning; and yet why also so much trouble? We know but I may be on the verye of some great discovery of all robbins. But this cruthout I not to end of the conversation of

vowels. This should be reported to make in most such that words, This is should be reported to find in most such bars in a real such as a such as a such as a such mare rich in conseasants. We may considerably prodict, therefore, that we have to deal with a synthetic dishoct."

Nothing could be more logical.

"Now," and Profusion Hardwigg, "to trace the

union other was no pleasant to select Aut the perchantel, amount of the perchantel and the manuscript volume and the smaller decrease or switchen in different hands," he said, "the cryptograph in of much later date than the best been in a markethed proof of the correctness of my surmise, "the first later in a double M, which results are such as the produced the selection of the contract and the perchantel and

particular language."
"As Salvierperer says, "that is the question,"
was my rether satisfied reply.
so such many rether satisfied reply.
so such many from the same says and the say where is the
language of his latticplace, he probably, like most
larend man of the sixteenth century, wrets in
Latin. If, however, I prove wrong in this grees,
even Hairene, My own opinion, though is decidately
well before My own opinion, though is decidately

The dreamstances appeared very probable and very logical, but five accession of the very logical, but five accession of the very logical part of very logical part of the v

This preparation startled me. Letin was my favorite study, and it seemed sacrilege to believe this gibberish to believe to the country of Virgil.

"Barbarone Latin, in all probability," continued

"Mery prebably," I replied, not to contradit him. "Let us use from the matter," continues my anney. "Let us use of incition and many contrading a many contrading a matter," and inter, appearant; there are paper, without method or organization. There are such as meralls, others which are marky all results, the fifth, for instance, whosh is waterful, and one of the lost certific, This appears as extraordinary constraints of the lost certific, This appears are activated in the price of the contrading of the contrading of the contrading of the contrading of the contradinary constraints.

is the close. Now, Harry, to show your English wite-maks it but if greet?

I could give him no hist. My thoughts were inteed far away. With he was speaking I had indeed far away. With he was speaking I had indeed far away. With he was speaking I had an away wondering when she would return. We were affasted, and it was wondering when she would return. We were affasted, and it was consent to page 1 of the abilities; matter, when never thought of close and without modeling and abstraction, the Professor began routing the passance of progressich all south of west, according to an entire professor, all south of west, according to

wandering attention, be distanted one precious attempt to me.

I mildly banded it over to him. It read as follows:—

metamikaSanrA.terfdoK.republicasurts coertaerretta, robainadaa, ud ecordeadus ioostratiiSu fechatrae Sartomaboulidanek meretarcabasolde finSul. I onibl acaroah komp from laupking while me

cut of the house and then taking to his heels was presently lost to sight. CHAPTER III

CHAPTER III AN ARTUUNDENG BISCOVERY

HAT is the matter?" cried the cook, catering the recen; "when will master have his dinner?"

"And, his supper?"
"I don't know. He says he will eat so more,
"I don't know. He says he will eat so more,
neither shall I. My mole has determined to fast
and make me fast until he reads this aboutinable

"You will be starved to dasth," she said.

I was very much of the same opinion, but not filting to say so, seat her away, and began seens of my mind work of classification. But buy as I mode myself, nothing could keep me from thinking alternation of the study are not seen to be a second to the could be the said.

Secure I time I was trouted to go out, but my under would have been angry at my absorce. At the evil of at a hurr, my absteted a kin was done. Row end of at a hurr, my absteted a kin was done. Row and the time? I been by lightling my pies. Like all other hands I been by lightling my pies. Like all other hands I been by the lightling my pies. Like all other hands I been a been about the lightling and acting regard in the great armothist, I been to meditate. Where was my much? I could easily imagine him tearing along ones collary road, gest challenged him tearing along ones collary road, gest challenged.

and a still thinking of the absent the of hierophysics, Would be hit upon some clear? Would be deep a season through we not bester burner? Winds these thoughts were passaing through my hreful, mechanically took up the secretake punts and tried every meglitable to be a season to be a seaso

recognise come our, except that the four-teerful, fiftheath and sixtement made to the English; the eighty-four-th, eighty-fifth and eighty-eitht, the eighty-four-th, eighty-fifth and eighty-eitht, the words yet that it last I seemed to find the Latin words you, establic, for, see, sire. "Hat there seems to be some truth in my uncle's notion," thought L. Then seals I seemed to find the mord toes, which Then seals I seemed to find the mord toes, which

means covered grows. Thou in the third has I repeared to make out bibliefs, a perfect Holives were, and at had the splishts were, eer, see, which were French. It was enough to drove our mod. Four different bileon in this abound phrase. What conserved from the second property of the contraction of the second property of the conserved grows, changing, mother, at and sea! This first and the linet might, is a owntone connected with boldend, mean sea of her. But what of the rest of this monthrous cryptograph?

were strained with darling at the partiement, the whole adaund collection of listins appared to draw before any vision in a number of block little groups. My mind was possessed with terporary halling time—I was stifling. It wanted air. Mechanically in I famed myself with the december, of which I say first the back and then the front. Imagine my surprise, when glarding at the back

of the wearisoms pazzle, the lak having gone through, I dearly made out Latin words, and among others craterous and fervative.

I had discovered the source! It came upon me the a finish of lightning. I had get the class. All

you had to do to indentand the deciment was to read it inclusards. All the linguishess ideas of the Professor were realized; he had distorted is rightly to me; by a more socident I had discovered what he so much desired.

My delight, my emothen may be insigned. My

eyes were dataled and I brembled so that at first I could make nothing of it. One look, however, would tell me all I wished to know.

"Let me read," I said to myself, after drawing a lone breath. Largeed it before me on the table, I

passed my finger over each letter, I spelt if through; is any excitement I read it out. What hereve and suspendention took possession of my seal. I was illo a man who had received a knock-dwan blew. Was it possible that I really read the terrible secret, and it had really been se-

indiction have. Was it possible that I really read the terrible secret, and it had really been accomplished! A man had dired to do—what?

No living being about ever knew "Newer!" cried.
I, jumping up; "Newer shall my uncle be made aware of the dread secret. He would be quite expained on undertaking the barrible fourners. Noth-

ing would check him, nothing step him. Werse, he would compel me to accompany him, and we should be lost forever. No; such felly and madness cannot be allowed."

be allowed."

I was almost beside myself with rage and fury.
"My worthy unde is already nearly med." I cried slood. "This would fields him. By some accident

A TRIP TO THE CENTER OF THE EARTH 105 ho may make the discovery, in which case, we are My unde continued counting and writing; his work the desirable correct better forces. Instruction cannot be have further by the continued to have freezed by the transported him to be

both bist. Fertish the fastful ascree—but the funcference bury it in eligible continued, and was above. I muticals up book and practical and was above. I muticals up book and practical the foot opposed can be up under externed. I had ascreetly time to part draws the west-fastful document before my uncle was by any other. He was precluded when the was the part of the Book and the part of the probably struck its Same new combination had probably struck its was the west-fastful and the part of the setwalls. It is a superior to the set of the part of t

arrechnir, and with a pen began to make in signtorical salpicalities. I weeked him with unitous broade algorithms, and the salpical salpical creat became probable. I having discovered the only obe, I mass this continuation were unclean. For three morial facurs he continued without speaking a word, without, reiving this head, something, returning the salpical texts of the salpical salpical salpical salpical salpical texts of every adjushed hims orby a optain number

of combinations. But then years might cause befere he would errive at the correct solution. Still time went on; again, cause, the cause in the streets caused—and still my uncle went on, not swen arawering our weethy code when she called us to supper. I did not dare to leave him, so worsed her savey, and at but full selects on the softs.

When I awake, my uncle was still at work. He red yaw, his paid contrastance, his matted half; his fewrith hands, his heritoly flushed checks, showed how terrible half been his trarge with the imprecible, and what fourth check the trarge with the imprecible, and what fourth check the paid of the imprecible, and what four check the imprecible, and what four check the imprecible, and what was considered to the imprecible, and what was considered by non-like the owner action or was suffered to the topical contrast to the contrast of the imprecible the imprecible and the contrast of the imprecible the imprecible and the improvement of the imprecible and th

case. I sould not spatk B.

Ky hart say, norrebbless, inclining towards
him. Why, then, did I pression silvant? In the inhim. Why, then, did I pression silvant? In the intermination of the prefet without, and to follow in
the freebrings of the other? I know him well. Bits
the freebrings of the other? I know him well. Bits
the freebrings of the other? I know him well. Bits
for his faith of I will therefore be silven and metric
for his faith for, I will therefore be silven and metric
for his faith. He would not only himself ruch to desumme footed methods way and conduct—monthwell

seems. Robin enterts way and conduct—monthwell

When our cook wasted to go out to market, or on any other errord, she found the front foot looked and the key takes sown. Was this done purposely or net? Surely Professor Hardwayz did not intend the old woman and myself to become markets to his administ will. Were we to be streetly death? A frightful recollection came do my utrick. Once we had feel us his and every first the receive

even to think of it!

I wanted my breakfast, and I naw no may of getting it. Still my resolution held good. I would starve rather than yield. But the cook began to take me seriously to tack. What was to be done? She could not go out; and I dured not.

cook had eaten the has bit of brend. This could not en on. At two p'clock my sensations wave townible. After all I began to think the document is very abward. Perhans it is only a gigantic boox. Residen, back from attempting any auch abourd expedition. On the other hand, if he should attempt snything so quixetic, I could not be compelled to accompany him. Another line of resecutor partially decided me Very likely he would make the discovery himself Under the industre of hunger this reasoning apmental admirable. I determined to tall all The question now arose as to how it was to be done. I was still dwelling on the thought when be rose and put on his hat. What I go out and lock us In? Never! "Uncle," I began.

skies. He thought neither of seting nor drinking

In this way twelve o'cleck came around. I was hangry, and there was nothing in the house. The

He did not appear even to bear ma. "Professor Hardwige," I cried.
"Professor Hardwige," I cried.
"What," he retored, "this you speak?"
"How about the lay?"
"Who ley—the lay of the deer?"
"Who—of these horritis historyphine."
He lecked at me from under his arcetaselse, and streed at the end extraories of my face. Rushing

forward, he clutched me by the arm and locally exsatined my combessace. His very box was as interregation. I simply noded.
With an increditions shared of the shealders, he turned upon his bact. Undersheldly he timoght I had green med.—I have made a very important discovery."

His eyes finished with excitement. His hand was lifted in a measuring satisface. For a measuring meither of ma spoke. It is hard to say which was most certical. "You don't mean to say that you have any idea of the meaning of the erroral?"
"I do?" was my desperate reply. "Look at the

In Snefels lossife createress have delebut United Southers Julia intra calendar decounds. Andas viator, et terrestre centrum attinges. Kod feel. Arne Salmussem.

Andas vinter, et terrestre centrum attispus.

Red feet. Arma Salemanem.

Which dog-Latin being translated, rend as follows: "Decembra the trainer of Yokal of Sancha, which the shall of Sancharia covers, before the

reach the center of the corth. I did it.

"Assos Saxwessen."

My uncle feeped three feet from the ground with
joy. He looked radiant and hundsome. He reached
about the room wild with delight and satisfaction.
He kneeded over tables and chairs. He three his

the map,

books about matil at last ottoric exhausted he fell I rose, went to the shelf, and presently returned into his sim-chair. "What's o'clock?" he asked, with the volume indicated. "Thus," seed my uncle, "is one of the best maps "My dinner does not seem to have done me much of Iceland. I believe it will settle all your doubts, difficulties and objections," We can then stort at once. Get my portmentous

"What for?" "And your own," he continued. "We start at

My horror may be conseived. I resolved beauever to show no fear. Scientific reasons were the only ones likely to influence my nozle. And there were more against this terrible increase. The ware idea of going down to the center of the earth was

point after dinner. My uncle's race was now directed against the

During the remost way made was rather pay them otherwise. He made some of those peculiar lokes

study. We each took a chair on opposite sides of "Henry," he said, in a soft and winning voice:

"I have always believed you ingenious, and you have you, this great, this wondrous discovery would never bave been made. It is my duty, therefore, to insist on your abaring the story." "He is in a good hamor," thought I; "Til soon. let him know my coinion of glory."

"In the first place," be continued, "you must keep the whole affair a profound secret. There is no more envisus race of men than selentific disconserve. Many would start on the same journey,

"I doubt your having many connections," was my "A man of real scientific acquirements would be delighted at the churce. We should find a perfect

atream of pilerims on the traces of Arne Saknussem, if this document were once made public." "But my dear sir, is not this paper very likely

"The book in which we find it is sufficient proof "I thereughly allow that the ecutorated Professor

wrote the line, but only, I believe, as a kind of Scarcely were the words out of my mouth, when I was corry I had uttered them. My unde looked at me with a dark and gloomy sorwi, and I began His mood soon changed, however, and a smile took the place of a frown. "We shall see," he remarked, with a decisive emphasia,

"But are what is all this about waked and Speffels, and this Scartario? I have nover board "The very point to which I am coming. I letely received from my friend, Augustus Peterman, of Lebeng, a man. Toke down the third atks from With a grim hope to the centrary, I steeped over

"TOU see, the whole island is made up of volenross,"asid the Professor, "and note that they all hear the name of yokul. The word is Icetains of that region the valcanic erentions come forth from ice-bound coverns. Honce the moree applied to every volcano on this extraordinary Island,"

"But what does this word Spellele mean?" To this question I expected no rational answer, I was relataken, "Follow my finzer to the western exact of Iceland, there you see Repkjawik, its capital. Follow the direction of one of its insurer-

able fierds or arms of the sec, and what do you "A peningula-very like a thigh-hone in shape," "And in the center of it--?"

"A mountain," "Well, that's Speffels,"

"That is Saeffels—a mountain about five thousend feet in height, one of the most remarkable in the whole island, and certainly doomed to be the most celebrated in the world, for through its "Impossible!" cried I, startled and shocked at

"Why impossible?" said Professor Hardwice in his severest tones. "Because its crater is choked with lava, by burning rocks-by infinite dangers."

"That would make a difference." "Of course it would. There are about three bunfired velexnoss on the whole surface of the gielse-

but the greater number are extinct. Of these Sneffels is one. No cruption has occurred share 1215-in fact it has ceased to be a volcano at all." After this what recovered I say? Yes.... I thought of another objection, "But what is all this about My upole reflected descript. Presently he man

forth the result of his reflections in a septentious tone, "What appears obscure to you, to me is light, This very phrase shows how particular Sakonssem is in his directions. The Speffels' recuptain has many cratera. He is careful therefore to point out the exact one which is the highway into the Interior of the Earth. He lets us know, for this the shadow of Mount Scartaria falls upon the My uncle had an answer for everything, "I acevet all your explanations," I said, "and Saknussem

or savone else over followed up the discovery, in

mardness to suspose," "Why so, young man?" "I are cohing for theories," retorted my unch.
"But is it not well-known that beat margasses,
con slopres for every seventy first yea dissent into
the sarch? which gives a fire idea of the control
beat. All the matters which compact by globe are
in a state of incustocrost; own gold, pittinum, and
the hardest rocks are in a state of facion. What

would become of us?"
"Den't be alarmed at the best, my buy."
"How no?"

"Blow so?" Neither you nor saybedy else knows saything about the real slate of the earlier interior. All about the real slate of the earlier interior. All thereirs. Were any such bast to ceist, the supercrust of the earth would be shattered to atens, and the world would see alse stud."

A leng, learned and not uninteresting discussion. A leng, learned and out uninteresting discussion the designs and difficulties which you, flarny, seem

to multiply; and the only way to harr, is like Arac Sakaussen, to go and see,"
"Well," orned I, overcome at last, "let us go and see. Though how we can do that in the dark is

another mystery."

"Fear nothing. We shall overcome these, and
many other difficulties. Ecoldes, as we approach the

Center, I expect to find it luminous———
"Nothing is impossible."
"And now that we have come to a therough understanding, not a word to any forms soul. Our success depends on receiver and deceatch."

eess depends on scoresy and despatch."
This esside our meanment conference, which round a perfect ferur in mt. Leaving my until, it was first like one possessed. Reaching the back of the like, I begret to think. Was sill I had beard of the like, I begret to think. Was sill I had beard of the like, and could the interior of the serial be reached? Was I like victim of a medium, or was he a discovere of rare courage and grandour

when he a displayment on the courings shall generate To a certain extent I was assume to be of. I was afraid my enthusiasm would cool. I determined to pack up at once. At the end of an hure, how-ever, on my way home. I found that my feelings had very much changed. "I'm a hajothante-I much have dreame it."
"It's a hajothante-I much have dreame it."
At this mounts I come face to foce with A thin context I come face to foce with come to make the "the way of the work of the come of th

Well, it was no me mincing the matter. I told he will. She listened with two, and for some minutes she reold not speak. "Well?" I at host asked, rather accidently. "West a magnificent journey. If I were only a man! A journey worthy of the nephers of Professor Hardwigz. I should look upon it so an

man! A journey worthy of the nephre of Professor Hardwigs. I should look upon it as an house to accompany ham."
"My dear Gretches, I thought you would be the first to ery out against this mud enterprise."
"No; on the sentency, I glory in H. It is meanified, and show that of my father, Harry cost, solvantly—on these worths of my father, Harry

Core, apartmins—an jobs worter of my inner. Harry Lawrent, I carry yea."

This was, as it were, conclusive. The final blow of all.

When we extered the bence we often my codes surrounded by workness and porters, who were permaneer is not means—my respect to but in order—the persons tabler has not brought my clothes, nor my guiters—the key of my carpet bug is goos!"

I locked at him stapefied. And still be tugged away as the iself. "We are really off, then?" I gad,

unfortunate boy!"
"And when do we go?"

"The day after its marrow, at daylecols." I heard so merc; but drarted of to ny little beforhingher and locked myself in. There was no work all the afternoon. The gender was full in afternoon. The gender was full not generated, and geldstone—complet his after mon. agreed the second of the second

recoved the keys of the house; and, surcely pausing to wish sayone good-bye, we started on our adventurees yourney into the center of the Earth.

CHAPTER V

PERT LESSONS IN CLIMINIS AT Altona, a otherb of Hamburg, is the Chief I us to the abrown of the Rolt and exactly at ? class rathern carriage. My unch said nothing. He course was the famous parchment, and some letters of lookend. In three hours we reached Kiel and We had now a day before us, a delay of about passion. We had nothing to do but to welk about the pratty fown and hay. At last, however, we went on beard, and at half past ten were starming down the Great Belt. The pext morning we reached Copenhagen, where, scarcely taking time for refreehment, my uncle harried out to present one of his letters of introduction. It was to the director formed that we were tourists bound for Iceland, did all he could to assist us. One wretched hone sontained me now. Parkaps no vessel was bound for such distant perta.

Abst a little Benish acheener, the Vallayrie, was to sail on the second of June for Reykjavile. The expirate, M. Bjarne, was on board, and wes rather susprised at the centry and ordeality with which his fature passenger should him by the head. To him a worage to feeland was merely a matter of course. My unche, on the other hand, considered the event of ashlifts importance. The innova touler took

"On Tuesday morning at seven o'clock he on

yourcelf, my boy, and we will take a run through Our meal concluded we went to the Kenzens-Nya-

the other item of the pince,-none of which my uncle even naw, so absorbed was he in his antici-

But one thing struck his fancy, and that was a certain singular church steeple situated on the the city of Copenhagen. My uncle at once ordered curretance, which was, that its rather elevated starrie started from a circular platform, after

round to the very summit. "Let ue accept," said "But I never could climb church towers," I cried, "The very reason why you should go up. I want

"But my good sir-"I tell you to come. What is the use of westing se much valuable time?" It was impossible to discrete the directorial com-

mands of my uncle. I yielded with a gream. On payment of a fee, a verser gave as the key. He. for one, was not partial to the secent. My mole at once showed me the way, running up the steps like a school-boy. I followed as well as I rould though no sooner was I ontside the tower, than my head began to swim. There was nothing of the Still things did not so bodly until I had assended 150 steps, and was near the platform. Then I began to feel the rush of cold sir. I could sourcely The railings were frail enough, but they seemed winding stairons, that appeared, from where I stood, to sacend to the skies.

"Now then, Harry," "I oan't do it!" I cried, in accents of daspair. "Are you, after all, a coward, sir!" said my To this there was no raply possible. And yet the

"Look around you," said my unde, in a stern volce, "heaven knows what produced abversa you Stowly, and shivering all the while with cold, I as by some optical delusion appeared to stand still, one side could be seen the greaty plain, while on the other lay the sea bathed in translucent light, The Sund, or Sound as we call it, could be discovered bayond the point of Blaincre, crowded with white suits, which at that distance, looked like the wince of sea-gulls; while to the east could be discovered the far-off cosat of Sweden. The whole appeared a maria percrama, Faint and bawildered as I was, there was no remedy for it. Rise and stand up I must. Despite

while the steeple, the weathercook, and our two selves were carried swiftly slong. Far away on

bater. When, nearly two hours letter, I reached the basom of mother earth, I was like a rhoumatic old men bent double with pain. "Knough for one day." said my uncle, rubbing his hands, "we will begin There was no remedy. My lessons lasted five days, sponsh, and found myself able to look down into the

degree of pleasure.

depths below without winking, and even with some OUR VOYAGE TO ROHAND

THE hour of departure come at last. The night before, the worthy Mr. Thompson brought us. the most cardial letters of introduction for Court Tramps, Governor of Iceland, for Mr. Pictursion, condjutor to the bishop, and for M. Finsen, mayor of the town of Revkiawik. In return, my uncle nearly crushed his hands, so warmly did he shake them,

On the second of the month, at two in the source ing, our precious cargo of luggage was taken on board the rood ship Valkerie. We followed, and more vary neither introduced by the cardain to a small cable with two standing bed places, neither very well ventilated nor very comfortable. But in the cause of science seen are expected to suffer, "Well, and have we a fair wind?" cried my uncle. "An excellent wind!" replied Captain Blarne;

"we shall leave the Sound, some free with all sails set." A few minutes afterwards, the schooser started before the wind, under all the conven also could carry, and entered the charnel. An hom later, the capital of Denmark second to sink into the waves, and we were at no great distance from the court of Risinore. My uncle was delighted; for myself, moody and dissatisfied, I appeared al-"Subline medmen," thought I, "you doubtless, would approve our proceedings. You might per-

hans even follow us to the center of the earth. there to resolve your eternal doubts." "How long will the voyage last?" asked my uncle. the skipper, "unless, indeed, we meet with some

porth-sest gulen among the Parce Islands," "No. Mr. Hardwige," said the canteln, "no fear

of that. At all quents, we shall get there some The voyage offered no incident worthy of record, regions, and were sharms, was remarkably consided. This would see are troubled him the more, that the rewards him from questlenting Cuptain Blazza as to the subject of Senfelts, as to the means of communication, and the facilities of treasport. All these augmentations has had to adjourn to the partial of his arrival. His time measurable, was upon time to be actival. His time measurable, was upon time to be considered to the contraction of the lowester transmission of the vowers. I old not

On the eleventh day we eighted Cupe Fortland, over whoth towerd Month Myrinka Yakal, which, the weather being chao, we made sol very reidfly, remission and the second section of the control of the cont

cosm, forming a mighty varil, around which the forming waves pured with linease fury. The lishes of Westman squared to leap from the cosm, being as low in the water as concept to be seen, being you were right upon them. From that memant the schenner was observed to the westward in order to round Caps Reykjaness, the western point of foreign.

My mucks to his great diagram, was untiled some to cover on cacker, so keeps a san was con, and thus lest that first view of the Land of Precedie. Forey-agilt hours later, after a store which control the first view of the Land of Precedie. Forey-agilt hours later, after some hours in sight of land, and were bearried by a pilot, who after three hours of disappears anwigation, becapit the achooner safely to an archer in the lay of Fann By and the safely after the control of the safely and the safely later than the safely after the safely and the safely after the safely and the safely after the safely after the safely and the safely after the safe

this, but full of authorisons, his oyes dished with plasare and salitation. Nearly be while soppistion of the foot was on fact to see as had. It is not the foot was on fact to see as the secterior with the second of the second of the second period of the period of the second of the period of the second of the second of the period of the second of the second of the land, for to to the quarter-sick of the subsects och my see with his fall had, and spletted bind with his right, over the prettern port of the bay.

be whirecord in an asso-stricken voice, "bibliod," Mount Sneffels!"
Without further remark, he put his finger to his lips, freward darkly, and descended into the small best which availed us. I followed, and in a few minutes we arised upon the soil of anysterious

Streetly were we fairly on those when there appeared before a name of excellent appearance, wasning the continue of a military officer. He was, however, but a civil airwant, a manighteintle, they orcerne of the histod—Barne Trempe. The Professor know when he had to ded with. He hardered handed him the letters from Grenainers, and a brief conversation in Danish Hallowal, to when, if of for I did not know the language in within they conversed. I afterwards heart, however, that Bern. was quite as utilizar so the poweror, het shee from chancier and outside the quite and the sheet of the chancier and comparison of the specific As for speciment which is the methods parties of the factors. We were further completed to defer the chance of the speciment of the specimen of the horsever, was compensated by the presence of M. Pricketson, Pricketson of Notices of Notices in the pricketson prickets of Notices of Notices in the Pricketson Pricketson of Notices in the Notices of Pricketson Pricketson of Notices in the Notices of Pricketson Pricketson of Notices in the Pricketson Pricketson of Notices in the Notices of Pricketson Pricketson of Notices in the Notices of Pricketson Pricketson of Notices in the Notices of Pricketson Pricketson of Notices in the Notices in the International Pricketson of Notices in the Notices in the International Pricketson of Notices in the Notices in the International Pricketson of Notices in the Notices in the Notices in the International Pricketson of Notices in the Notices in the Notices in the International Pricketson of Notices in the Notices in the Notices in the International Pricketson of Notices in the Notices in the Notices in the Notices in the International Pricketson of Notices in the Notices in the Notices in the International Pricketson in the Notices in the Notices in the Notices in the International Pricketson in the Notices in the International Pricketson in the Notices in the

My uncle was also most graciously received by M. Finsen, the mayor, who as far as costume west.

Out of three rooms of which his house was composed, two were pirred at our service, and in a few hours we were installed with all our begange, the amount of which rather autonition it is simple, "Now, Harry," soil my uncle, rubbing his hands, "If you, well the work difficulty is now over."

"all goes well, the word difficulty is now over,"
"Hee the werst difficulty over," I crisd in fresh
amazonezat.
"Doubtless. Here we are in leeland. Nothing
more remains but to descend into the howels of the
earth."

"Wall, sir, to a certain extent you are right. We have only to go down—but, so far as I am concernod, that is not the question. I want to know how we are to got up again."
"Yant is the least part of the brainess, and does

and in any revealed part of their interesting, there is not in any way freedle roe. In the meanttime, there is not in house to lock I am about to visit the public affector, Wery likely I may find there extra the girls for consult them."

"In the meanwhile," I replied, "I will take a walk through the nown. Will you not likewho do on!"
If also in element in the arbitest "walk we made.

"What for me is curious in this laten, it ace what is above the arrives, but what is below."

I bowed by way of reply, put on my but and furred clock, and went out.

It was not on any matter to less constit in the two streets of Borghewin; I had therefore no need to ask my way. The twon lies on a dat and marrhy pain, between two bills. A wat this of law asking it it on one side, fulling ways in terroses towards the sea. On the others had a the large buy of Pers.

Sportch. In the bay the Polityrie was then the celyvessel at anchor. Generally there were one or two English or French gamboats, to worth and protect the fisheries in the effin. However, they were now absent on duty. In three hears my tour was complete. The general increasation used my mind was selfness. No

trees, no vegetation, so to openis—on all sides welcanic peaks—the buts of turf and earth—more like roofs than houses. Thanks to the heat of these stationers, grass grows on the roof, which grass is carefully out for hay. I now but few inhabitation

AMAZING STORIES beach, drying, saiting and loading cod-dah, the

principal article of expertation. The mea supeared jawik; "you speak of one of the most distinguished rebust but beavy, fair-helred like Germans, but of scholars of the sixteenth century, of the great penatys more exists of a higher scale in the ladder naturalist, the great alchemest, the great traveler." of humanity than the Esquimana, but, I thought, "Evastiv on" much more unhappy, since with superior perceptions "One of the most distinguished men connected they are compelled to live within the limits of the Polar Circle. CHAPTER VII

CONVERSATION AND DISCOVERY THEN I returned, dinner was ready. This meal was devoured by my worthy relative with avidity and vorseity. His shipboard report, which was more Danish than Icelandic, was in riself nothing, but the excessive hospitality of turned upon scientific matters, and M. Frideikason

asked my uncle what he thought of the public "Library, sir!" cried my uncle; "It appears to me a collection of uncless odd volumes, and a keggarly amount of empty shelves. "What!" oried M. Fridriksson: "why, we have

eight thousand volumes of most rare and valuable works-some in the Scandinavian language, besides "Right thousand volumes, my dear sir-why,

where are they?" cried my uncle "Scattered over the country, Prefessor Hardwire. We are very studious, my dear air, though every faherman can both read and write-and we comboards, far from the sight of students should he distributed as widely as possible. The books of without returning to the library abelyes perhaps

"Then when foreigners visit yeu, there is noth-"Well, air, foreigners have their own libraries. and our first consideration is, that our humbler classes should be highly educated. Fortunately, the educate our people, and these books have rendered valuable services to our country. Allow me to have the honor. Professor Hardwigg, to enroll you as an

bonorary member?" My uncle, take already beleased to needly seven literary and selentific institution in Barone, immedistriv visided to the arriable wishes of cood M. Fridriksson. "And now," said the latter after many expressions of gratitude and good-will, "if you will

I may be of some assistance to you. I watched my wasle keeply. For a relegate or openly was, nerhans, to unvail his projects, Nesve-

"A man illustrious above all." "Yes, air, all this is true, but his works?" "We have some of them.

"Not in Iorland?" "There are none in feeland or elsewhere," answored the other, sadly, "Why so?"

"Arme Sakaussem!" cried the Professor of Revis-

"Because Arne Sekrussem was persecuted for hereay, and in 1973 his works were publicly burnt at Copunhagun by the hands of the common hang-

"Very good! capital!" marmared my uncle, to the great automobment of the worthy Icelander. "Yes, yes, all is clear, I see the link in the chain:

oversthing is explained; and I now understand why his magnificent discoveries, was compelled to con-

"What occret?" "A secret-which," stemmered my uncle "Have you discovered some wenderful manyseriotre "No, no. I was carried away by my enthusiasm.

A mere supposition "Very good, air. But, really, to turn to another subject. I hope you will not leave our island with-"Well, the fact is, I am rather late. So many

"Yes, yes, but there is still much to be done," eried M. Fridriksson. "You think so," said my uncle, his eyes twinkling with hidden satisfaction "Yes, you have no idea how many unknown moustains, glacters and volcanous there are which remain can show you one. Youder on the edge of the bari-

"Oh yes, Sneffels," said my uncle. "One of the most curious volcances in existence.

"Extinct for the last five hundred years," was the rowly reply "Well," said my uncle, who dag his mails into his flesh, and pressed his knees tightly together to provent himself leaping up with joy. "I have a

This portion of the convergation took place in and. I could scarcely keep my countenance when Eight and astisfaction. I want confess that his art. ful grimsom, put on to cences! his happiness, made him look like a new Merhistopholes. "Yes, yes," he continued, "year perposition deliabte me I will

A TRIP TO THE CENTER OF THE EARTH

in possible, will descend into the creates,"
"I very mach regret," continued M. Pridrikasen
"that my occupation will entirely produce the possibility of my occupation; will entirely produce the possibility of my occupation; you. It would have been both picovariable and profitable if I could have spared the time."
"No, no, a thousand times no," eried my uncle, "do not wash to disturb the seventity of any man.

"I do not wish to disturb the screenty of any mean. I thank you, however, with all my heart. The presence of one so learned as yourself, would no doubt have been most marful, but the dicties of your office and profession before everything.

In the innocence of his sample heart, our host did not perceive the lrong of those remarks. If enturely approve your project," he continued after some further remarks. "It is a good side to begin by examining this volence. You will make a herest of terrious observations. In the first place, Low do

you propose to get to Sneffels?"
"By sea, I shall cross the bay. Of course that is the most rapid route.
"Of course. But still it surnet be dame."

"Of course. But still it cannot be done."
"Why?"
"We have not an available boot in all Reykjawik,"

replied the other.
"Wint is to be done?"
"You must go by land sleag the coast. It is longer, but much more interesting."

"Then I must have a goods."
"Of course; and I have your very man."
"Bemshedy on whom I can depend?"

"Yes, an inhabitant of the pennium on which Smelles is estimated. He is a very shrewe and worthy man, with whom you will be pleased. He speaks

"When can I see him—to-day?"
"No, to-morrow; he will not be here before."
"To-morrow be it," registed my uncle with a deep sigh.
The conversation ended by compliments on both

The conversation ended by compliments on both ables. During the dimer my ands had learned much as to the history of Arno Sakuussem, the reseas for his mysterous and herceptyphical deciment. He also become aware that has heat would not accompany him on his adventurous expedition,

CHAPTER VIII

THE RESIDENCE ALL NUMBERS —OF A LIMIT YEAR OF A LIMIT CHARGE IN CASE A size which can the above the Residuence of the Re

fact one of those men who despose the habit of

continulation common to southern neople.

and pidegratic temperament. There was anothing indicate about him, but his appearance space of tranguilty. He was one of these who never seemed to expect applied, who liked to expect applied, who liked to expect applied, you have he has he hought proper, and whose philosophy mostling could sentiate the eventy when he thought proper, and whose philosophy mostling could sentiate the could be a because the experience of the work of the way in which he bilatend to the wild and my passimed withings of my worthy mick. While the oscillate Profession soled as principle in their such consideral Profession soled as affection of their suchous.

I keeps to comprehend his charmeter, simply from the way in which he listened to the with and impassioned workings of my worthy much. White the conclinal Professer apoles actions after sanctions, he steed with folded arms, otherly still, moticoloss, he steed with folded arms, otherly still, moticoloss to all my unching pesticulations. When he wanted to say no he moved his head from left to right; the when he sunplement, he modeled so slightly that you

economy of motion was carried to the length of awares.

Jufging from his appearance it would have been a long time before I would asspect hom to be what he woul a nightly hunter. Certainly his measure was not filedly to frighten the game. How, then, did he awarence to set at his new? My surprise

and soleme personage, was only a honter of the elder-duck, the down of which is, after all, the greatest source of the Icolanders' worlth. This grave, sententium, silent person, as phagmatic as as Regislemen on the French stage, was

ransed Ennu Bjelke. He had called upon us for consequence of the recommendation of M. Fridrikason. He was, in fart, our future grade. It strucks me that had it sought the world over, I could not usele. However, they readily understeed one other. Neither of them had say thought alone messay; one was ready to take all that was offered hit, the other ready to offer asypthing that was

understanding between them was seen resolved. The professionaling was, that he was to take us to the village of Storj, alturated on the southern ships of the perhamis of Storick, at the very foot of the village. Ears, the golde, teld us the distance was about teneri-yee miles, a former which my made supposed would take about two days. But we have the storic teneri-yee miles, a former which are the storic teneri-yee miles, a former which are the storic teneristic to the storic teneristic and a storic teneristic teneristic

tes days for the former. Four herees were prepared for us, two to carry the beggage, and two to beer the important weight of aspeal and struck. Base declared that nathing would exmake him offish on the back of any nelmal. Ho know every lich of that part of the coset, and premised to take us the very shartest way.

in the presence of the two to the very intract. Way, we must His suppressant with my made was by no the fortion of the control of the control of the control of the remain in his service during the whole time reequincif the the eccupietion of the scientific invasignred tion, at the fixed solary of throw ris-children is weak, being castly formition additing and two-patte, the control of the control of the control of the thin the control of the service was to be good to him every Scurings right, follings was to be gold to him every Scurings right, follings

which, his engagement was at an end.

The day of our departure was fixed. My world winder in hard the sider-down hunter an advance.

but he refused in one emphatic word-"Efter."which being translated from losbindie into plain The treaty concluded, our weethy guide retired without another word. "A splendid fellow," axid

my made; "only he little maspects the marvelege part be is about to play in the history of the

"You mean, then," I cried in amenement, "that he "To the Interior of the Earth, yes;" replied my uncle. "Why not?"

There were forty-eight hours more to alspse before up to making properations for our tourney. All our industry and ability were devoted to packing every object in the most advantageous meaner-the

instruments on one side, the arms on the other, the tools here and the provisions there. There were, in fact, four distinct groups. The instruments were, of course, of the heat

1. A centigrade thermometer of Eigel, counting up to 150 degrees, which to me did not arrear helf emough—or too much. Too hot by half, if the degree of heat was to seemd so high-in which case we should certainly be cooked-not enough, if we wanted to assertain the exact temperature of

2. A seasoneter worked by the pressure of the atmosphere, an instrument used to sacertain the atmospherio pressure. Perhaps a common barometer would not have done as well, the atmospheric pressure being likely to increase in properties as we

3. A first-class chronometer made by Bolssonnas, of Geneva, soi at the meridian of Harobury, from which Germans calculated as the English do from

4. Two comparees, one for horizontal guidance, 5. A night glass,

6. Two Rubmkorf's colls, which, by means of a current of electricity, would ensure us a very excellent, easily carried, and certain means of obtain-

A voltate battery on the newest pripriple. Our arms consisted of two rifles, with two reunivers. Why these arms were provided it was impossible for me to say. I had every reason to believe that we bad neither wild bearts nor cavage natives to four. My uncle, on the other hand, was instruments, and above all was very careful with his provision of fulminating or gun cotton, warrented to keep in may climate, and of which the expensive force was known to be greater than that

of ordinary sun-rowder. Our tools consisted of two pickaxes, two erowhars, a sulten rope ladder, three pron-shod Ainting stocks, a hatchet, a hammer, a deem wedges, some

parcel, especially when I mention that the ludder Then there eame the important question of pro-

ever, an ample supply of gourds, and my uncle counted on finding water, and enough to fill them. at soon as we commanded our downward former. My remarks as to the temperature and creality of such water, and even as to the nessibility of rone being found, remained whelly without effect. To make up the exact list of our traveling yearfor the suidance of future travelers-I will add. all apparents necessary for wounds, fractures and

six months. The only liquid provided by my uncle

was scheldam. Of water, not a drop. We had, hope-

blows: Not, occasions, language-as perfect collection of horrible-looking instruments; a number of pheals containing ammonia, alcohol, ether, Goulard water, aromatic vinegar, in fact, every possible and irepeacible drug-finelly, all the materials for work-

My uncle had also been careful to lay in a goodly suredy of tobacco, several facies of very fine gunprovider, boxxe of tinder, boxxdes a large belt transmed full of notes and gold. Good boots rendured water-tight were to be found to the number of six in the tool-box. "My boy, with such clothing, with such boots, and such general equipments. said my uncle, in a state of rapturous delight: "we

may hope to travel far." It took a whole day to put all these metters in order. In the evening we dired with Baron Trampe, is company with the Mayor of Revisiowic, and therefore, I did not understand a word that was

The next day our labor came to an end. Our worthy host delighted my uncle, Professor Hard-Our last evening was spent in a long conversation with M. Fridriksson, whom I liked very muchthe more that I never expected to see him or any

one also sends. After this agreeable way of spending an hour or so, I tried to sleep. In value with the exception of a few dozen, my night was mingrable. At the o'clock in the morning I was awakened from the only real half-hour's sleep of the night, by the load neighing of horses under my window. hastily drasped myself and went down into the street. Hans was engaged in putting the finishing stroke to our bargage, which he did in a silent,

breath in giving him directions, but worthy Hans At alx o'clock all our preparations were completed, and M. Fridriksson shook hands beartily with us. My uncle thanked blm warmly, in the Icelandic lan-

my boot Latin phrases and raid him the highest

visions. The harmer was not very large but more As soon as we were orite ready, M. Fridriksson or less satisfactory, for I knew that in concentrated in the words of Virgil-words which appeared to have been made for us, travelers starting for an uncertain distination.

"Et queessipse cans dederit fortuna coparisum."

("And whetheover way fortune provides may use fellow it.")

CHAPTER IX

"The water was made in single dependent of the property of the

It was just before we left Reykjawik that I came to this decision. Hans, our extraordinary guide, went first, welking with a steady, rapid and uplowed of their own arourd, without requiring whip or spar. My pacie and I come behind, catting very tolerable figures upon our small but vigorous animals. Have, on taking his departure from Revkfauth had followed the line of the ara. We took our way through poor and sparse meadows, which made a desperate effort every year to show a little green. They were rapply succeeded in a good show only well accominted with the country, but by a kind of instinct, knew which was the best road, My uncle had not even the satisfaction of urging his steed forward by whip, spur, or voice, It was utterly useless to show any signs of impatience. I could not belo amiliag to see him look so big on his little herse; his long logs new and then touching the ground made him look like a six-fosted

sentan." Good beast, "not beast," he would ory. "I moure yap, Riery, that I begin to that no address I temporayap, Riery, that I begin to that no address I temporated to the sent of the sent of the sent of the imperituality county, which, (shorteger bothing stops into. He is brown to is sober; he is not; he never makes a false sky, nover gidde or either from his makes a false sky, nover gidde or either from his first the sent of the sent of the sent of the sent of the let crossed—and I have no doubt there will be more—you will not him enter the water without healtstates life as no amphibious astiroid, and reach for the createst to have yith ir, we now allow his to show his

m we shall do our ten lengues a day."
"We may do m," was my reply, "but what about
"We may do m," was my reply, "but what about
"I have not the alightest anxiety about hars; that
ast of percor goes about without even knowing

which he is shown. Just fast to Ham. Its moves a till like that it is impossible for hor to become fulfigued. Buttley, if he were to complish of wardfulfigued. Buttley, if he were to complish of wardter to be the second of the camp if I were not it have some act of easterns. Not green use of it has been act of easterns. Not green to the All this while we were obtunding it a rapid para. The neutry we had reached was always next; a The neutry we had reached was always next; a free most self-up shown the self-up of the complishing of word, earth, fragmonts of line—looking into of word, earth, fragmonts of line—looking into of word, earth, fragmonts of line—looking into of mortifact him section in an early offer. I this had deposed to leave along a tray door. I this had deposed to leave along a tray door. I had had deposed to leave along a tray door. In subsect, and type-depting, poor as it was, alway's an analysis.

of the few travelers who passed from place to place.

A few stray cows and sheep were only seen occasionally. What, then, must we expect when we come to the upharwel regions—to the districts broken and roughened from welcarie cruptices and

redeternations commedican?
We were to keep all this is good time. I now, we were to keep all this is good time. I now, which we exceed the control of the co

Statifics, where applicates from a finduce's rules forms a kind of territio chaos.

Some two hours or more after we had left the city of Replejhows, we reached the little town called Assistiation, or the principal church. It consists attention of a few houses—out with in Registrio Germany we should call a harder. Many stopped here useded hours - He shared our frough levels have used to the consistency of the control of the

heards as usual. "Gardar!" was his one-worlds rolly.

I took seession to enough the map, to now where Gardar was to be found. After looking keenly I found a small town of that name on the herders of the Hudleyford, about four miles from Reyligowik. I pointed this out to my uncle, who made a very energetic grimes.

I possible this out only since, with masse a very energetic grimmes.

"Only four niles out of inventy-ino? Why it is only a little walk."

He was about to make some energetic observetion to the guide, but Ress, without taking the alignment of the size inventorialists and walked shead with the same innerturbable 14 AMAZING STORI

Still traveling over those apparently interminable and southy prairies, we were conveiled to go reund the Kollafford, thus following a burse strip of shore between high rocks and the cos, we came to the "acadicirkle" of Braniar, and after another mile to "Saurboor America," a chapal of cose, stim-

the "assective" of Brantar, and after another mule to "Saurbeer America," a change of eace, stirated on the nouthern bank of the Hvalfjord. It was four o'clock in the evening and we had travaled four Daulch miles, about equal to twenty English. The flord was in this pince about half-e-cile in width. The savepting and breken were name noll-

width. The awarping and levelum waves name rolling in upon the pointed rocks; the gold was aurecorded by recky walls—a migrity elff, three threesand feet in belight, recordable for the frewer creats, separated bere and there by bods of tefs or a radialish has. Now, whatever may have been the infellipence of our horses, I had not the dilightest reliance upon their, as a means of creasing a stermy

arm of the sea. To rife over sult subset upon the back of a little horse second to me shourd. "If they are readly intelligent," I ask to moself, "they will certainly not make the attempt. In any case, I shelf trust reliator to my own intelligence or

case, I shall treat rather to my own intelligence partials their the mean than theirns.

But my uncle was in no humor to wait. He day in this heads into the addes of this stock, and made for the shore. His heres went to the very edge of the water, milded at the opproaching was and re-water, and the day of the water.

Moreover, who, each to say, was quitten chains in My surely, who, could no say, was quitten chains and My surely surely surely was followed by a ten beautiful to the participation of the chains of the effect of the participation of electrons are chosen by a velor of works and a stort application of whipever! she followed by kidns on the part of the brass, which three the hand and beaut upwards and trust to throw his brider. At height the storchy little room, recogning out his laws in

a stiff and badicross attitude, get from under the professor's logs, and left him standing, with both feet on a operate stone, like the Collecture of Rhodes. "Westebod animal?" cried my unde, suddenly transformed into a foot possenger—and as angry and solution do as distinctured coverly offer on the

and ashigmed as a dismounted cavalry officer on the field of battle.

"Perfo," said the guide, tapping him familiarly the the shallon

on the shoulder,
"What, a ferry host!"
"Der," convered Hans, pointing to where lay the
best in question—"three."
"Well." I creed, much relieved by the informa-

tion; "so it is."

"Why did you not say so before," cried my unch;
"why not start at once?"

"Pidenties," said the guide.
"What does he cay?" I saked, considerably puzzled by the delay and the dialogue.

"He says tide." replied my under, translating the Danish word for my information.
"Of course, I unformation—we must wait till the tills serve."

"For bisin?" asked my unch,
"Jo. replied Huns.

"Jo, replied Hena. My unde frommed, stamped his feet and then fallowed the horses to where the best lay. I thoroughly understood and appreciated the messasity for waiting, before creating the ford, for that

The favorable moment did not come until six vicked in the swoller. Then ay usels, reporting and guids, two heatmen and the four horses pro time a very selected field-bettern but. Accessionnel as I had been to the steam formy-houts of the Elles, I found the high cars of the beatmen but every momen found the high cours of the beatmen but every moment of the commonling the fourly that at length the passage was concluded without accident. Half-un-hour latter we reached Carlan.

noment when the cens at its highest point, is in a state of slack water. As nather the shi nor flow can then he felt, the ferry boat was in no danger

of burng curried out to see, or deahed upon the

CHAPTED Y

T eaght, one would have thought, to have been night, even in the sixty-fifth parallel of latetude; but still the northernal illumination did not surand July, the sun never sets. The temperature, beseaver, was very much lower than I expected. I was cold, but own that did not affect me so work as ravenous hunger. Welcome indeed, therefore, was the but which hospitably coursed its doors to pematter of hospitality, it was worthy of being the palace of a long. As we alighted at the door the resulter of the house come forward, held out his hand, and without any further coversion, alreaded to us to follow him. We followed him, for to accompany here was impossible. A long, parrow, lica, made from beams roughly squared by the ax-This passage gave ingress to overy room. The

chambers were four in number—the libeten, the work-slop, where the warrier was verried on, the general shorten-chamber of the family, and the best room, to which strungers were concelled juvited. My much, whose body statuse had not been taken site consideration when the busine was built, exceptived to keed his bend against the beams of the Az soon as we hist freed considered from our beary travelling cestum, the velox of our hear was beard calling to us to even in othe kitchen, the

neare causing to us to come into the interim, the only rocen in which the Incleanders ever make any fire, he matter how cold it may be. My nucle, nothing heath, histaned to cloy this hospitable and friendly invitation. I followed. On our extrance, our worthy heat, so if he had not seen is thefore, advanced correspondent, uttered

a word which manns "he happy," and then kleed both of us on the cheek. His wife followed, pranonneed the same word, with the same coremental, then the knutsend and wife, pleaking their right hands upon their hearts, bewed profounds.

then the husband and wife, plealing their right hands upon their hearts, bewed profoundly. This excellent belandle werner was the mother of nineteen children, who, little and hig, rolled, rewired and washed about in the misst of volumes

middle of the roots. Every now and then I could see a fresh white hand, with a slightly melanchely expression of countemane, peering at me through the vaper. Both my made and myself, however, were very friendly with the whole party, and heA TRIP TO THE CENTER OF THE EARTH . 115
form we were aware of it, there were three or four satisfied with him installately. It was now the

our keess, and the rest hanging about our logs. These who read speak lengt curyon ort suderwise in every possible and impossible key. Those who did not speak cuty mode all the more neise. This concert was interrupted by the amountament of supers. Just then our worthy guide, but either fault knotter, same in after seeing to the feeding and stilling of the heree—which consided in letting them these to browse on the stunded green of the following services. There was little fee them

or the location prairies. There was this for each that mean and some very day and immutations grass; next day they were ready before the docr, long before we were.

"Welcome," and Hans. Then tranquilly, with the

"Welcom," said Hans. Then tranquilly, with the air of an automaton, without any more expression in one kins than another, he embraced the best and

instead and their niverton children.
This occurracy executable to he auditaction of a Timbo cereary executable to he auditaction of a member of the control of the control

milk with water. I was hungry, as hungry, that by way of desort I delabed up with a bath of thick cet-mest perridge. As noon as the super was over, the children disappeared, and the grown people set around the fireplace, on which was placed torf, heather, one done

place, on which was placed torf, heather, one dung and dried fish-borne. As soon as everyheidy was sufficiently warm, a general dispersion took place, all retiring to their respective courses. Our hostess effected to pull off our steckings and treasure, socrefully to the custom of the country, but as we

graciously declined to he so heaved, she left us to our hed of dry folding.

At five in the murning next day we took our leave. My unch had great difficulty in making the accept a sufficient and proper remneration. That ecceing, after fording the Alfa and the Hets, two twost risks in treat and plate, we were compelled

being housted by all the furn of Scandinavian mythology. The King of Cold had taken up his residence there, and made as feel his processe all night.

The two following days were remarkable for their tack of any particular incidents, always the same days and execute and; the same drawy sti-

The two following days were recognized for routlack of any particular incidents, always the name damp and sewerpy soil; the same dreary with feemily; the same and and monoteneous supect of seemory. I comfoss that fullque began to tall sowersly upon me; but my unch was so form and as hard as he had been when we started. I could not help

weethy guide; for they appeared to regard the rugged expedition as a more justif.

On Saturday, the 20th of June, at six o'clock in the evening, we reached Budir, a small fown picturesquely situated on the above of the cenan; and here the outle noted for this money. He unde-

e my unde, who did not require rest, had no idea of anything of the kind; and despite the fact that in next day was Sunday, I was compelled once more to meant my stead.

The soil was again affected by the neighborhood of the mountains, where gramts peered out of the ground like tops of an old onk. We were shriting

greater me topic or a set on the we've finding and the mightly volcane. My under the scenarious lane of the mightly volcane. My under freen qualitativity, and looked at it with a lated or cillin deduces as much as to any "That is the ginest lawer made up my mind to conquest."

After four thours of stoody travelling, the bareas abapped of themselves before the does of the preshytery of Stopt. We had reached the foot-of-the greater their stood of the preshy-

CHAPTER XI

APTER XI

WE RECH MOUNT SIMPETA—THE "REFERS"

TAPI Is a know cauchting of theriv bust, bell!

On a kree plan of law, cryssed to the reps of
the sun, reflected from the velezos. It streets
it bumble bearmants along the end of a little fore,
arrounded by a besultie wall of the most simplite
character. How we from! Nature preceding gentlating, so if the had employed the planmar line,

the outpass and the rate. If showfare the perdense great articles effect by religing up haps masses without order or connected present and the religious properties of the religious and person in regularity, and preceding the archgive a leasen in regularity, and preceding the archcare of arthritisers, which suther the aphendance of Habylon toe the surveys of Greece ever ancourse of arthritisers, which suther the aphendance of the perisonal, consided it is arter of vertical catumes, in height shout thirty feet. These appriatgithms of atoms, or the finest properties, as apprint properties of the perisonal control of the perisonal con-

in the role, and below this natural heats, the eye was pleased and superless they have sight of road and the role of the role

any perceptible effect!

This was the last stage of our journey. Hasts by had brought us along with fidelity and intelligence, and I began to feel somewhat more comfortable.

farther on our way.

When we halted before the bruss of the Rector, a mail and incommodicus cable, seither handousse to the property of the pr

in his band, and a leathern aprop tool around his tainly be lost in the midst of the labyrinth of subterranean galleroes of the volcano. Now, we have

Be happy," said the elder-down hunter, using his "Good-doe -good-day!" replied the former, in excellent Danish.

"Karkokerde," cried Hans, turning round and intreducing him to my uncle, "The Regtor," repeated the worthy Professor; "it appears, my dear Harry, that thes worthy man

is the Rector, and is not above doing his own work." of the case. The good man, causing from his occupation, gave a kind of halloo, upon which a tall weenan, almost a grantess, came out of the hut. She

is very manual. My first impression was one of horror. I thought she had come to give us the Icelandic kiss. However, I had nothing to fear, for she did not even show much inclination to re-

The room devoted to strangers appeared to me to be by far the worst in the presbytery; it was parrow dirty and affensive. But there was no choice about the matter. The Regtor had no notice pitality. My uncle soon became aware of the kind of man he had to deal with. Instead of a worthy peacent. He therefore resolved to start on his great constition as seen as possible and spend a few

The preparations for our departure were made new hired three leelanders to take the place of the horsen-which could no longer carry our lungues. Honorar when these worthy Irelanders had reached the bottom of the crater, thay were to so back and leave us to ourselves. This point was settled before they would agree to start. On this eguation, my uncle partially confided in Hans, the sider-duck

to the last possible limits. Hans listened columly, and then needed his head. To so there, or elsewhere, to bury himself in the bowels of the earth, or to travel over its summit was all the same to him! As for me, amosed and forcet the inevitable future; but now I was once more brought to realise the actual state of affairs. What was to be dene? Run away? But if I really

had intended to leave Professor Hardwise to his fate, it should have been at Hamburg and not at One idea above all others began to trouble me: be perves of a mon far less sensitive than myself. "Let us consider the matter," I said to myself: "we

good. We are about to pay a visit to the very it and did not perish from that course. "But that is not the whole matter to be con-

which to descend into the dark and enharraneous nursem really did tell the truth, we shall most car-

no evidence to prove that Sneffele is really extinct. about to take place? Because the monater has along soundly since A. D. 1229, does it follow that he in These were constions worth thinking about, and upon them I reflected long and deeply. I could not he down in searth of alone without dreaming of cruptions. The more I thought, the more I objected to be reduced to the state of dross and asker. I

could stand it no longer so I determined at last to submit the whole case to my uncle, in the most adrest manner possible, and under the form of some I sought him. I laid before him my fears, and

then draw back in order to let him set over him passion at his case "I have been thinking about the matter," he said, in the orietest tors in the world

What did be mean? Was he at het about to listen to the voice of reason? Did he think of suspending be true. I made no remark. I was too anxious pot to interrupt him, and so allow him to reflect at his lefeure. After some moments he speke, "I have been thinking about the metter," he resurned. "Ever cines we were at Staps, my mind has hego almost solely occupied with the grave question

which you, yourself just appraisted to me-for notbact with improduce," "I heartily agree with you, my dear profe," was my somewhat hopeful rejoinder. "It is now aix hundred years since Spelfele has anakan, but though new reduced to a state of otter silence, he may speak again. New volcanic countions

are always preceded by perfectly well-known phenegons. I have closely exemined the inhabitants of this region; I have carefully studied the sell, and As I listened to his paritive affirmations, I was

I obeyed mechanically. Leaving the preobytery, the Professor took a road through an opening in the baseltic rock, which led far away from the sea-We were seen in enen country, if we could give such a name to a place all covered with volcanse demaits. The whole land occured symbol under the

weight of excernens atonso-of temp, of baselt, of granite, of lava, and of all other volcanic substances. I could see many apouts of steam rising in the air. These white vapors, called in the Icelandic language "reploy," come from hot water fountsins, and indicate by their violence the velencie activity of the soil. The sight of these appeared to justify my apprehension and I was, therefore, all the more surroused and mortifled when my uncle thus eddressed me. "You see all this spoke, Harry, my

"Yes. 127." "Well, as long as you can see them thus, you have nothing to feer from the voicene." "How own that he?"

for him.

Preferent. "At the approach of an eruption these protest of space reclosible that antitrop—of situation para allogother during the partial of volcanic eruptions; for the elected tunine, no larger belong the measurery bendon, sadir reduce in the interfer of the crater, instead of excopar through the fluxors of the curit. If, then, the steam remains in his accord to habitant state, if these energy does not increase, and if you add to this, the remark, that the word in the regulated by theory almospheric preserve.

"Bar—"
"Brough, my boy. When selence has out forth
ber find—at he only to hear and to obey."
I came hatch to the borse quite downant and disappointed. My wate had completely defeated me
with his actuatific arguments. Nevertheless, I still
had one happ.—that was, when once we were at the
bettem of the orater, that if would be immeasible in

default of a gallery or businel, to descend any desper, and the despite all the hearned Saleaussens.

I passed the whole of the following night with a nightnare on my sheet!—and, after unhearded miseries and tertures, found myself to the very depths of the sarrby, from which I was unidenly hearned into descatery spece, under the form of an

origitive roki! Next day, the 22d June, Hans calmly awaited as quated the preshivary with his two companions sould with previous, tooks and instruments. Two trees—that issues, or the row man and the contract the contract of the row purels and appeal. Hense, a man who never infinite to take even the minute precentions, had added to our begates a large skin fall of water, as an addition to our prories. This

assured us water for eight days.

It was the o'clock in the moving when we were ready. The retors and his large wife, or securit ready. The retors and his large wife, or securit ready to the control of the control of the control off. They appeared to be should to insist on a side and in the control of the control of the control of the same and the control of the control of the control of the period beaus, south out for the form of accusable the control of the checked and rebothed in the a Swinz landscoper, and also in the control of the control of the control of the description. A man who had made use this middle barrenting. A man who had made use this middle of the control of the control of the control of the control of the second of the control of the control of the control of the second of the control of the control of the control of the second of the control of

This important matter settled, Hazas, gave the algori for departure, and a few moments later we had left Stapt.

CHAPTER XII THE ASCENT OF MOUNT SNEIGHLE

THE volume, which was the first stage of our experiment, is about five thousand feet high. Smiffled in the termination of a long range of volume mountains, of a character different from the system of the island staff. One of its position-ties as its two large pointed summits. From where a started is was impossible to make out the section of the staff of

The commensurant of the great understaining filled as most the two flows that we had actually started, I of bugan to believe in the reality of the understaining. Our party formed quite a procession. We writted as a single file, preceded by Baro, who coicing led out by narrow paties where two persons could by no proven the same two processing the processing of the processing of the control of the control of the same account of the seen account. As we advantage that expenditude the control of the c

All we could distinguish was a vest forme of winte.

As we advanced, the read became more difficult. The soil was been and disagreens. The reads broke and give way under our feet, and we had gove way under our feet, and we had gove the properties and constant fulfs. Hant advanced as calmby as if he had been welding over Schinbury Pikir, as conditions he would disappear behind huge highest of stone, and we momentarily lost slight of through the stone well disappear behind huge the way when the well with the single properties of stone, and we momentarily lost slight of through the stone was a stone which was to be the stone when the soil of the stone was a stone which we want to be sufficient to the stone when the soil of the stone was a stone when the soil of the stone was a stone when the soil of the stone was a stone when the soil of the stone was a stone when the soil of the stone was a stone when the soil of the stone was a stone when the soil of the soil of the stone was a stone when the soil of the

Occasionally he would take it into his head to top to pick up largus of rock, and distartly file them up into used heaps, for one wight not loss our way on our return. He had no idea of the Somney we were about to undertake. At all events, the presention was a good one; though how atterly mades and unnecessary— But I must not andicine.

Three hours of terrible fatigue, walking incessantly, had only brought us to the foot of the great mountain. This will give some notion of what we had still be undergo. Satisfary Have grand a half-after in he works

as signs to that effect—ents a summary fixed of Presidents was fixed out on the twas before us. My unclose that was fixed out on the twas before us. My unclose a super to sufferince, that he looked his food fixed super to sufferince, that he looked his food fixed the president was the president of the summary of the super transfer of the super transf

nominate anony night-cap, as we began to call it, at hy an optical detains very common in mentalian, the appeared to me to be done at hand; and yet how as many hear was the many hear was many hear w

The three on the mentain side, hall begether by no content of soil, bound injective by no roster of boul, bound injective by no roster of bour, bound injective by no roster or crowping herits, pave way continuity maker sor feet, and wont making bodw into the paint, they as acrise of small revisionies. In certain places the action of this trapendors mountain over at an angle so steep that it was impossible to disab spaces, and we were empalled to get accord there obstrates and we were empalled to get accord there obstrates as best we easiful. These who understand Africa climbing will superceived now difficulties, Other were

ri- were obliged to help each other along by means of our climbing poles. al I must say this for my uncle—he stuck as close 118

parently insensible to fatigue. He had another great advantage-the innete sentiment of equilibrium-for he never elipsed or failed in his steps. Looking un every new and then, at the buight of impossible to reach the summet on that side-at

least if the angle of inclination did not speedily Fortunately, after an bour of difficult climbing, ing to an acrobat, we came to a west field of Ice. which completely surrounded the bettern of the cone probably for some such reason as the dwellers in the Cape of Good Hope call their mountain, Table

Here, to our mutual surprise, we found an actual flight of stone steps, which considerably assisted our ascent. This singular flight of stairs was, like everything else, volumble. It had been formed by one of those torrents of stones cast up by the eraptions, of which the losismile name is atmi. If this shouler peculiar shape of the flauks of the mountain, it would have sweet into the rea, and formed new islands. Such as it was, it served us admirably. The absurt character of the sloves momentarily ingroused, but these remarkable atone stens, a little less difficult than those of the Egyptian pyramids, were the one simple natural means by which we

About seven in the evening of that day, after baying clambered up two themand of these rough ateps, we found ourselves overlooking a kind of spur or projection of the mountain-like a buttress mosn which the concelling conter, properly so called. leaned for support, The cosan by beneath us at a depth of more than three thousand two hundred feet-a grand and

mighty spectacle. We had reached the region of eternal energy. The cold was keen, searshing and intense. The wind blow with extraordinary violence. I was utterly exhausted. My worthy uncle, the Professor, saw clearly that my legs refused further service, and that, in fact, was utterly exhausted. Doublts his hot and

foverish impatience, he decided, with a sigh, upon a halt. He called the older-duck hunter to his elds. That worthy, however, shock his beed. "Ofventor," was his sole spoken reply. "It appears," says my unde with a woe-begone

look, "that we must go higher." He then turned to Hans, and saked him to give some reason for this decisive response. "Mistour," realied the guide.

"Je reistour-yes, the mistour," cried one of the Itelandio guides in a turrified tone. "What does this regularious word signifu?" I

anxiously inquired. I looked down upon the plain below, and I saw a of sand, of dust, rising to the housens in the form to faint from honour and cold. At the avere time the reveled air acted painfully upon my lungs. At last, about eleven at night, when I thought I was gasping my last breath, we reached the summit of Mount Sneffels! It was in an awful state of mind, that despite my fetigue, I peased to beheld

ghastly pale rays cast upon the fale which lay eleeping at our feet, before I descended into the creter which was to shelter us for the night. I no longer wondered at people traveling all the

CHAPTER XIII

UR supper was eaten with case and rapidity

UR supper was eaten with some that he could after which everybody did the best he could for himself within the hollow of the creter. nation painful-lying in the open sir, 5,000 feet did I sleep so well as I did that particular night, I did not even dream. So much for the effects of

of a mighty water-speat. It resembled the fearful phinomenon of a similar character known to the The wind was driving it directly towards that stile of Speffels on which we were perched. This orange will standing up between us and the surprojected a deep shadow on the figures of the mounttein. If this sand-apout broke over us, we must all be completely destroyed, crushed in its fearful embraces. This extraordinary physomeson, very counce when the wind shakes the glaciera, and awarps over the arid plains, is in the Icelandie

tongue called mustour. "Hostiat Hastiat!" eriad our mide Now I certainly knew nothing of Denish, but I thoroughly understood that his gestures were meant to hurry us. The guide turned rarolly in a direction which would take us to the back of the crater, all the white ascending slightly. We followed

rapidly, despite our excessive fatigue. able to be look back. The mighty whichering of send was streading up the slope of the mountain Huse stones were caught up, cost into the air, and thrown about as during an equation. We were happily a little out of the direction of the wind. and therefore out of reach of danger. But for the procestion and knowledge of our guide, our dislocated hedies, our crushed and broken limbs, would have been cast to the wind, like dust from some

Hans however did not think it prudent to ness the night on the hare side of the sons. We therefore centimed our journey in a signing direction. The fifteen hundred foot which remained to be climbed took us at least five hours. The furnings and windingo, the no-thoroughfores, the marches and least three leagues. I never felt such misery, fatigue and exhaustion in my life. I was ready

the sun rise at midnight on the very day of its lowest declement, and enjoyed the avertage of its way from England to Norway, to behold this magi-

effect,

americals which surelled itself, nancrama-like, at I steed orom the lefty aummit of Mount Sneffels' southern peak. Theree I was able to obtain a view covernor to all fofty heights, ruled the shares of the island, while the central portions arecared de-

revened. It was by no means too great a flight of out before me. I could see the deep valleys that ground each other to swary direction. I could see precipites looking like sides of walls, lakes that seemed to be changed into pends, pends that looked petty brooks. To my right were phones poon

otselers, and multiplied renks, topped with light

clouds of smoke. The undulation of the infinite numbers of mountains, whose snowy summits make them lock as surface of a storm-bestsn ocean. If I looked towards the west, the ocean lay before me in all its majestic grandeur, a continuation as it were, of

to distinguish where the hand ended and the sea which is awakened in the mind when looking down without any feeling of nervourness, having forcontemplation. I whelly forget who I was, and where I was. I became intextested with a sense of lefty applicatty, without thought of the abvesser But I was presently brought back to the realities My uncle, turning in a westerly direction, pointed

out to me a light cloud of vapor, a kind of hane, with a faint outline of land rising out of the waters. "Greenland?" cried I in roply. "Yes," continued my uncle, who always when exelabeing anything, anoke as if he were in a Professor's chair; "we are not more than thirty-five learnes distant from that wonderful land. When

white bears come over to leeland, carried by the Souther measure of the from the north. This, howon the summit of the great, the transcendent Speffels and here are its two needs, north and south, Hazz will tell you the name by which the people of

My male turned to the importantable suids, who nedded and spake as uspel-one word, "Seartarts," My preio looked at me with a propel and triumphant since. "A crater," he said, "you hear?"

did hear, but I was totally unable to make renty. The creter of Mount Sueffols represented an inverted once, the gaping orifice apparently half a mile across; the depth, indefinite feet. Conceive what this Asia most have been like when full of

the slope from the summet to the bottom was very gradual, and we were therefore clearly able to get there without much fatigue or difficulty. Involuntarily, I compared this crater to an enormous loaded thought to myself, "when perhaps it is leaded, and

feet in circumference, by which it will be seen that

But there was no linger any epportunity for me to besitate. Hens, with a perfectly calm and inadventurous little band. I followed without atter-

slaughter. In order to render the dearent less difficult, Hans took his way down the interior of the core in rather a zigner fashion, making, so the collect say, long ones to the west. It was necessary to walk through the midst of ereptive recks, some of which, shalom in their balance, wert rolling down with thundering clamer to the bottom of the abyes. These

Many portions of the cope consisted of inferior glaciers. Hans, whosever he met with one of these obstacles advanced with a great show of pressution, sounding the snow with his lang iron pole in order parties. This connecting link was doubtless a pradont perception, but not by any means unettended with danger.

Neverthelose, despite all the manifold difficulties of the descent, slong slopes with which our guide was wholly unacquainted, we made considerable progress without szeldent. One of our great parcels of rope slipped from one of the looland porters, and rushed by a short cut to the bettem of the abyes. By mid-day we were at the cod of our journey. I looked sussands, and saw only the unper critics of the cone, which served as a circular frame to a very small portion of the sky-a portion which seemed

on that lovely squiit sky ! The only exception to this extraordinary landscars, was the Peak of Scartaris, which seemed loot

The hotteen of the ergier was recurred of three separate shafts, through which, during periods of

eruntion, when Spoffels was in action, the erent central forescent sent forth its burning lava and poisonous vapors. Each of these chimners or shafts from them as possible, not even venturing to take

As for the Professor, after a rapid examination breathless and penting. He ran from one to the other like a delighted school-boy, gastiguisting wild-

phrases to all sorts of isagonges. Hans, the guide,

and his humbler companions seated themselves on some mics of laws and looked effently on. They Suddenly the Professor uttered a wild, uncerthin

was falling hasdleng into one of the yawning gulfaout to their widest extent, his legs atretched apart, atanding upright before an enormous podestel, high exough and black enough to bear a gograntic status of Pluto. His attitude and miss were that of a man atterly stonefed. But his stonefaction was speedus changed to the wildest juy, "Harry! Harry! come

Unable to understand what he meant, I turned

to cher his commands. Neither Hans, nor the other lociumders moved a stop. "Look!" said the Professor, in something of the manner of the French general, pointing out the pyramids to his army. And fully partaking his

the name, to me a thousand times accuraed-1111 417104447 "Arne Saknussem!" cried my uncle, "now, unbeliever, do you begin to have faith?" It was totally impossible for me to suswer a

single word. I went back to my pole of lave, in a state of ellent awe. The evidence was unanswerable, overwhelming In a few moments, however, my thoughts were

far away, back in my German home, with Gretchen and the old cook. What would I have given for one of my crusia's smiles, for one of the ancient demestre's omeiettes, and for my own feather bed! I can say is, that when at last I rested my bead from between my hands, there remained at the but-The Icelandie perture had been dismissed and were yow descending the exterior slopes of Mount Sneffals on their way to Store. How heartily did I

wish myself with them! Hans slout transpally at the foot of a rock in a kind of rill of lava, where he had made himself a reach and ready hed. My uncle was walking about the bettern of the erator like a wild beest in a care. I had no desire, neither had I the strength, to move from my recumbent position. Taking ex-

someolopey, during which I peesed both to hear magnituin. In this way we praced our first night in Next morning, a gray, cloudy, heavy sky bung lifes a funeral-ball over the summit of the volcanic

I fully understood the reason, and again a gitupse

upon it, just touching its mouth in the last days of the month of June. We were, in fact, to consider the point peak as the styles of an immense sup-dial, the shadow of which pornted on one green day. like the inexorable florer of fats, to the vawn-Now, so often happens in these regions, should the own fall to burst through the clouds, there can be no shadow. Consequently, no chance of discovering the right aperture. We had already reached the 25th

followed by the adventurous Sakmassem. According

to rest off our vorsee of discovery for another year. when there would certainly be one person fewer in the party. I had already had sufficient of the med It would be atterly impossible to deplot the imnotent raze of Professor Hardwige. The day pessed.

and not the faintest outline of a shadow could be seen at the bettom of the cruter. Here, the guide, never moved from his place. He must have been half eaten away by the correctve action of time, curious to know what we were shout, if indeed be unels he never addressed a word to me. He was

> On the 26th, no change for the better. A mixture of rain and snow fell during the whole day, which he retired like Diegenes into his tub. I took a malifolous delight in mutching the thousand little carrying with them at times a stream of stones into "essity deep" below.

My uncle was almost frantic; to be sure it was snowth to make sween a patient man anery. He had But if the heavens and the elements are capable of cousing us much pain and surrow, there are two

sides to a medal. And there was reserved for Professor Hardwigg a brilliant and sodden surprise which was to compensate him for all his sufferings, Next day the sky was still overcast, but on Sunday. a sudden change of wind and a new morn there came a change of weather. The sun poured its beam-Rech hilloric, syery rock, overy stone, every

asperity of the soil had its share of the luminous effpirence, and its shadow fell heavily on the sell Among others, to his masne delight, the shadow of Scartario was marked and clear, and moved alouly My untle moved with it in a state of mental

ecutasy. At twelve o'clock exactly, when the sun had attained its bighest sititude for the day, the shadow fell upon the edge of the central pit!

"Here it is," exceed the Professor is an agenr friends, into the Interior of the Earth." varying heneath our steps, only one could have been I booked corresponds at Hann to one what perly he

A TRIP TO THE CENTER OF THE EARTH

would make to this terrific announcement. "Forest," said the guide tranquilly.
"Forestad it is," answered my uncle, who was now in the coventh beaven of delight.
When we were quite ready, our watches indicated

CHAPTER XIV

THE SEAL JOURNEY COMMENCES

UR read journey occurrenced. Hitherto our comings and determination sead overcome all difficulties. We were followed at timos; and that was all. John, subnorm and faceful diarrace were to make the seal of t

the borrible ships into which in a few numbes more I was about to plaine. The final numeral bid, however, at hot arrived. I had still the option of refeating or acception a share in the fooths and soils considered to the still the option of the final still the spin of the four that the elder-shock hunter. Heats seemed to accept the difficulties of the journeys as transpilly, with such color intrifluence, with such sprint reference to the color of the spin of

guide I hail my Sunges. I gave one moment to the thought of my charening consist, and then I netwared to the mouth of the central shall. which may be a supported to the consistency of which make about three handred in circumfarence. I lessed over a rook which should not set edge, and looked down. My hair should one only my towis chattered, my limite transition, I nextend structly to lose of which like that of a drumber max. There is neith-

ing more powerful than this attraction towards as skyrs. I was about to full including also the gaplug well, when I was drawn hack by a first and powertul hand. It was that of Hans. I had not taken issues across hat the Frederi's-lirit of Copribagous in the set of loving draw from larity emissions without Minking!

Horowar, for the mainties were during which the control of the control of the control of the con-

I guard down this transmitous and serious windraus shaft, I had a sufficient glimpae of it to give me aone jobo of its physical conformation. Its sides, which are almost as perpendicular as those of a well, presented numerous perjectious which doubt-less would assist our descent.
It was a sert of wild not assume shaltness, with-

out beamitter or fenne. A rope fastened above, near the surface, would certainly support our weight and enable us to reach the bottom, but how, when we laid arrived at its nethermost depth, were we to loosen it above? This was, I thought, a quantien of seem importance.

My uncle, however, was, as usual prepared with expedients. He hift upon a very shaple restled of clavating this difficulty. He unrolled a core about to thick as my thumb, and it least four hundred feet in length. He allowed about half of it to go down the pit and cutch in a hirth over a greet libed of law which used on the care of the

precipios. This done, he threw the second half in also small ter.

Each of us result you descend by eathbire the intitie as

two cords in one hand. When scort two tundred feet below, all the explorer half to do was to let go one and and jull savey at the other, when the cord would come failing at his feet. In order to go down further, all that was noncestry was to continue the same operation. Going down thus aptear that now operation, Going down thus aptear that now occupied my thoughts.

"New," said my mands, as seen as he had come."

"Now," raid my mole, as seen as he had completed this important preparation," with us use above the longuage. It must be divided into three separates to the comparation of the comparation of the comlete of the comparation of the comparation of Hy worthy and impositors unable dot not appear to consider that we came under that demonstration. "How," he constituted, "you will take charge of the tools and seen of the provincious you, Harry, must take concentred or another takes of the provincious that concentred or another takes of the provincious of the sixtilion, and with this more district, the con-

"But," I exclaimed, "our clothes, this mass of ourd and ladders—who will undertake to carry them down?"

down?"
"They will go down of themselves."
"And how so?" I soked.
"You shall see." My uncle was not ford of held

measures, one side is this empthing in the way of healthin. Giving the origin to Hans, he had the whole of the numbragile satisfact mode up into one hundle; set the protect transfer up desight pattent, was nimply pitched over the origin of the guilt, and the solice of falling blooms. My mode learning when the shape of the first protection of the largest over the shape, officered the describe of his largest own that the shape of the shape of the shapes of until R had completily disappears? from sight-"Now then," he crief, "th so or the city.

I yet il in goot finith to any man of cammomans impaire il in his rith conception or of instruments on his tack. Han task charge of the tool, in the serven. The danced then contact in personnel research the contact in personnel research and the conpared of the contact of the conpared of the contact of the contact in the c

on hithe use of it as possible, treating to my own againty and duing miracles in the way of feate of destroying and strength upon the projecting aboves and approx of love, which my feet seemed to chatch no strength as my hands.

The guide west first as I have said, and whan

to inter his feet be hid recovers to his mural monesyllable way of specifing. "Off-dath——"

"Attention—look out," repeated my uncle.

In about half an hour we reached a hind of small terrase fremmed by a frommet of rock are-

While we were seated on this extraordinary banels sigh I discovered that the bottom was still whelly in-

visible. Were we then, econg direct to the interior

The performance with the cord recommenced, and a practice of an hour later we had descended ac-

other two hundred fast. I have very strong doubts if the most determined geologist would, during that descent have studied

him. I did not trouble my head much about the matter; whether we were among the combustible carbon Sflurian, or primitive seels, I neither knew

Not so the inveterate Professor. He must have taken notes all the way down, for, at one of our halts, he began a brief lecture. "The farther we the result. The disposition of these volcors strets. absolutely confirms the theories of Sir Humphrey Dayy. We are still within the region of the primardist sell, the soil in which took place the chemical exidation of metals becoming inflamed by ecceing in

contact with air and water. I at once regret the old and now for ever exploded theory of a central fire. At all events, we shall seen know the truth." was very far from being in humor to discuss the matter. I had semething also to think of. My affects

was taken for consent; and still we continued to At the emiration of three hours, we were to all appearance, as far off as ever from the bettern of the well. When I looked appeards, however, I could see that the upper crifics was every minute

decreasing in size. The sides of the shaft were petting closer and closer together, we were anproaching the regions of eternal night! And still we continued to descend! At length, I noticed that when pieces of stone were detached from the sides of this stupendous precinics, they ware awallowed up with less poice than before. The final sound was somer heard. We were approaching

the bottom of the abves! As I had been very eareful to keep account of all the changes of cord which took place, I was able to tell exactly what was the douth we had reached, as well as the time it had taken. We had shifted the rope twenty-eight times, each operation taking a quarter of an hour, which is all made acres hours. To this had to be added twenty-eight pauses; in all

now, therefore, about eleven o'clock at night It does not require great knowledge of arithmetic makes five thousand six hundred feet in all (more

Whole I was making this mental calculation a value broke the alluron. It was the voice of Hana. "Helt?" he reled

I checked myself wary suddenly, just at the morrorit when I was about to kick my uncle on the

"No, you stored fellow! but we have reached the "And I suppose there is no farther progress to be mede?" I honefully exclaimed. "Oh, yes, I can dimly see a sort of tunnel, which turns off obliquely to the right. At all events, we

the worthy Professor in a satisfied tone.

must see about that to-morrow. Let us sup now, and seek slumber as best we may, I thought it tupe, but made no observations on that point. I was fairly launched on a desperate

It was not quite dark even now, the light filtering down in a most extraordinary manner. We opened the provision bag, ato a frugal supper, and each did his best to find a bed smid the pile of stones, dirt. and lave which had nonemulated for spee at the

bottom of the shaft. I happened to grope out the pile of ropes, ladders, and clothes which we had After such a day's later, my rough hed seemed as soft as down! For a while I lay in a sort of plasaunt trance. Presently, after bying culetly for some minutes, I opened my eyes and looked upwards. As I did so made out a beilliant little dot, at the extremity

It was a star without scintillating rays. According to my askulation, it must be in the constellation of the Little Bear. After this little bit of astronomical recreation, I dropped into a sound

CHAPTER XV WE CONTINUE OUR DESCENT

A Teight o'clock the next morning, a faint kind of dawn awoke us. The thousand and one prisms of the laws collected the light as in passed and brought it to us like a shower of snarks. We were able with case to see objects around us. "Well, Harry, my boy," oried the delighted Professor, rubbing his hands together, "what say you now? Did you ever pess a more tranquil night in our house in the Konig Stream? No denfaning sounds of eart-wheels, no cries of hawkers, no had

language from bootmen or watermen!" "Well, upole, we are quiet at the bottom of this well-but to me there is something terrible in this calm." "Why," said the Professor, bothy, "one weed see you were already beginning to be afraid. How will you get on presently? Do you know that an wet, we

"What can you mean, sir?" was my headlifered

"I mees to say that we have only just reached

"Are you sure, sir?" "Quite sure. Consult the barometer." gradually in the instrument, as long as our descent wes taking place, had stopped precisely at twentymus incises. "You preceive," and the Perfessor, "we have as yet only in endure the pressure of sir. I am curiest to replace the hermotist by the manusates," The harmonier, in fact, would become succlean so on as the weight of the already pretice that this calculated as about the level of the ocean. "But," and I, "I is not very much to be feater that this over-increasing pressure may not in the end turn out very platful and informediant!"

"But," said I, "hi it not very much to be feared that this ever-moraning pressure may not in the end turn out very pairful and inconvenient?"
"Not," with Dr. We shall descend very showly, and the property of the property of the property of the compressed mir. It is well known that adversaria have guess so high as to be marry without air at all —why, then, should we not accessom considers to breakle when we have, one of Sith too much of the

breathe when we have, may a fittle toe much of it? For myself, I am certain I shall prefer it. Let us not lise a memorial. Where is the packet which preceded us in our discont?" I smillingly pointed it out to my uncle. Hens hed

not seen %, and believed it canght accombere above na; "httppe" ne he phrased it. "Now," said my uncle, "let us breakfast, and break fact like people who have a long day's work

Bleadt and dried most, weaked down by some monthful of water floored with achiefun, was the material of our insuringes most. As some as it was mission, my most teek from his poster a note-book destined to be filled by reconvants of our travels. He had already placed his instruments in order, east thin is what he woote:—Monday, July 1st. Chromometer, M. 17m. morning. Reconventer, 29

Oroconviver, etc., in somman. Descriptory, at miner. Thereaccepter, 40 degrees Pair. Direction, 2. 8, 2. 8.

This had classration referred to the shourse gallery, and was indicated to us by the compasia. He was a subject to the shourse gallery, and was fairly at the same of wise, "we are may about to take care first aim in the fairless of wise," we are may about to take care first aim in the fairlessor of the Rockit, once before whitely mun aims to the fairle creation of the world. You may consider, therefore, that at this median country out throw the sale recommend."

As my uncle made this remark, he took in one hand the Robestorf cell apparatus, which hung around his neck, and with the other he not the electric current in communication with the filament of the harbern. And a keight light at once illumined that fork and gloomy tunnel! The effect was

of the leaburn. And a bright light at once illumined that fark and gloomy tunnel! The effect was magical!

Here, who carried the second apparatus, had it put into operation too. This ingentions application of electricity to resorting luminous markled us to

where they by the highest amount of the contraction of the most influence and the conbustility grees. "Foreign upon the two the party of burding grees," and the contract of the conbustility grees, "Foreign upon the conputing that, we contract the comber gallery lagoring that, we contract the comber gallery late we were about to countf caracters in this dismal passage, I little up my band, and through the tube-

piecegie, a treate it as we have the controlled to the controlled

to pervent correction from alterance down the steephtechnical planes? Highepty seem scrince, hereaures of the soil, and other irregularities, served the pince of steep; and we descended above, abovering our heavy lappangs to slip on before us, at the end of a part that withoursed as steep under sor feet, became in other places statisticities. The law, very powns to certain places, took the force of filled round historic. Crystate of open quarts, advende with linguid drops of actuary places assumption to the

round nation. Crystal so poppe quart, showed with limpid drugs of actural plans supported to the reof tile batters, secreted to take fire as we passed good of the passed of retaining the reof passed of retaining where underground palaces to receive the sons of rest. "Magnificant Glorisons" I crod in a moment of involuntary enthusiasm, "what is speciately, under the year expected, when the year of the passed of laws, but you not admit these varietyed shades of laws,

involuntary enthusians, "which a specialis, modal by you not admire these variety of some of of the young and which the property of the sound of the property of the property

advance farther. What we have as yet discovered is nothing—convented, my by, courseful!

I would have been a far more correct and appropriate expression, had he said, "let us slife," for we were going down as indined plane with perfect case. The compass indicated that we were mysting in a noath-consistely directles. The flow of laws had

never turned to the right or the left. It had the lafeedhilly of a straight like.

Nevertheters, to my surprise, we found no pertended to the latest straight of the conof Humphrey Davy to be founded on truth, and more than some I found systell examining the thermoster in sulfest abundahemed. Two bowers after recorder in silical abundahemed, the bowers after the latest straight of the latest straight of I had every reason to believe from this that our decount was far more ben'install then vertical, As

on of opinitume in only marked to degrees a furnishment.

I had every remain to believe from the list or
in from the list or
in for floorer-lay the exact degrit to which we had set
already achieve could be easily. The Perfactors, as he hadwared, measured the angles of desiration and
ignification in the keys the result of his observations to himself.

About eight of the highly ratel. Hene existed himself
that algorithme the might's ratel. Hene existed himself
the kingen for the water good in a first occurren where
the law rock the water good in a first occurren where

and the proof. This songs were larger the care of the control of the control of about he for the control of about he for the control of the c

beauce of springs?" he said. (Continued on page 135)

TESMERIC REVELATION By Edgar Allan Poe

those of death, or dition within our cognizance; that, while in this state, the person so impressed employs only with effort, and then feebly, the external organs of sense.

wend the scope of the physical organo; that, more-

ers so needless a demonstration to-day. My purpose at present

lequy, occurring between a sicco I had been loss eon in question (Mr. Van Klek).

exultation of the mestneric percenvened. For many months be had der confirmed phthisis, the more manipulations; and on the night of Wednesday, the fifteenth instant, The invalid was auffering with

acute pain in the

culty, having all the ordinary symptoms of authorafrom the application of mustard to the nervous centres, but to-night this had been attempted in

ful smile, and although evidently in much bodily tally, quite at ease.

"I sent for you to-night," he chal impressions which, of late,

there has always existed, as it in that very soul which I have been denying, a vague half-sentisulted, indeed, in leaving me

THE lot onterv and shot quite forecas body I

MESMERIC REVELATION more secretical then before. I had been advised to

well as in them of his European and American echoes. The 'Charles Elwood' of Mr. Brownson, for example, was placed in my hands. I read it with profound attention. Throughout I found it legical, but the nortions which were not merely logical were unhampfly the initial arguments of the dubelieving hero of the book. In his summing up it seemed evident to me that the reasoner had not even

succeeded in convincing himself. His end had plainly forgotten his beginning, like the governoriving that if man is to be intellectually convinced of his own immertality, he will never be so con-

vinced by the mere abstractions which have been so long the fashion of the morallets of Eveland of France, and of Germany. Abstractions may emuse and exercise, but take no hold on his mind. Here upon earth, at least philosophy, I am persuaded, will always in wain call upon no to look upon qualities as things. The will may assent the soul-the lotellect, Daver.

"I repeat, then, that I only half felt, and never intellectually believed. But latterly there has been a certain deepening of the feeling, until it has come so nearly to resemble the nonneacence of reason. that I find it sifficult to slatinguish between the two. I am enabled, too, plainly to trace effect to

my masning than by the hypothesis that the menmeric exaliation enables me to peresive a train of rationization which, in my abnormal existence, convinous, but which, in full accordance with the menmeric phenomena, does not extend, except through its effect, into my normal condition. In sleep-waking, the reasoning and its conclusion—the cause and its effect-are present together. In my natural

state, the cause vanishing, the effect only, and perhaus only partially, remains, "These considerations have led me to think that some good results might ensue from a series of well-directed questions proposnifed to me while self-cognizence observed by the sleep-waker-the extensive knowledge he displays upon all points re-

lating to the meameric condition Stielf; and from this self-cornusance may be deduced hints for the I consented, of course, to make this experiment,

aloco. His breathing became immediately more easy, and he seemed to suffer no physical pressinone. The following conversation then ensped:--- V. in the dislarge representing the nations, and P.

P. Are you asleep? V. Yes-no: I would rather sleep more samply. P. [After a few store passes.] Do you sleep now?"

V. Yea. P. How do you think your present illness will V. [After a long heritation and speaking as if solth (fort.) I must die.

P. Does the idea of death afflict you? P. [Very quickly.] No-no! P. Are you pleased with the prespect? V. If I were awake I should like to die, but now

V. I am willing to do so, but it requires more effort than I feel able to make. You do not sugstion P. What then shall I ask? V. You must begin at the beginning. P. The beginning! but where is the beginning? V. You know that the beginning is God. [73is was said in a loss, Anstagring fore, and unth surru

it is no matter. The measureric condition is so near

[Hesitating for many minutes.] I connot tell. V. While I was awake, I knew what you meant by "spirit," but now it seems only a wars-spch for betance as truth, beauty-a quality, I mean,

P. Is not God immaterial?

V. There is no immateriality—it is a mere word. ties are things. P. Is God, then, material?

V. No. This reply startled see very much. P. What then is he? V. [After a long peace and mutteringly.] I seebut it is a thing difficult to tell. [Another lone

peace.] He is not spirit, for be exists. Nor is be matter, as you residenticed it. But there are graduground impelling the finer, the finer purvading the grosser. The atmosphere, for example, imrels the

matter is God. What men attempt to embody in the word "thought," is this matter in motion. P. The metaphysicisms maintain that all action is reducible to mutom and thinking, and that the

V. Yes; and I now see the confusion of idea. Motion is the action of mind-not of thinking. The nearly as we can ourselve it) what men call mind, And the power of self-movement feculvalent to effect to human volition) is, in the unparticled mat-

know. But the unmericled matter and in metter by law, or quality, existing within steelf, in thenking, P. Can you give me no more precise idea of what you term the unparticled matter? V. The matters of which man is cornizent, escape

a metal, a piece of wood, a drop of water, the atmosparry, a gas, calorie, electricity, the luminiferent ether. Now we call all those things metter, and embrace all matter in one general definition; but in

tially distinct than that which we attach to a motal

When we reach the latter, we feel an almost irresistible insilitation to class it with spirit, or with

of an atom, as something possessing, in infinite minuteness, solidity, polpability, weight. Destroy the idea of the atomic constitution, and we should or at least as matter. For wast of a hetter word we might term it spirit. Take, now, a step beyond than the metal and we arrive at once (in solte of all the school degrees) at a unique mass-on un-

nibility. The only consideration which restrains us

perticled matter. For sithough we may admit infarte littleness in the atoms thomselves, the infinitude of littleness in the spaces between them is an absurdity. There will be a point-there will be a degree of rarity, at which, if the atoms are suffthe mass absolutely enalesce. But the consideration of the atomic constitution being now taken away, we conceive as epirit. It is clear, however, that it is as fully matter as before. The truth is, it is that we have formed its conception, we have merely

P. There seems to me an incorrespondable obligion tion to the idea of absolute coalescence; -and that is the very slight resistance experienced by the -a resistance now secertained, it is true, to exist in some dorres, but which is, nevertheless, so elight an to have been quite overlooked by the associty even of Newton. We know that the registance of are no interspaces, there ean he no vielding. An

effectual stop to the progress of a star than would an other of adament or of iron V. Your objection is graveered with an ease which ability.-As regards the progress of the star, 25 can astronomical error more unaccountable than that which recognites the known retardation of the cornets with the idea of their passage through an other for, however rare this other be supposed, it

far briefer period than has been admitted by those estropomers who have endoweded to slur over a other hand, about that which might be expected from the friction of the other in the instantaneous passage through the orb. In the one case, the retarding force is momentury and complete within itself—in the other it is endlessly socuredative.

P. But in all this-in this identification of more

schools at the same time. God, with all the rowers P. You sesset, then, that the unparticled matter, V. In general, this motion is the universal thoughts of the universal mind. This thought creates. All greated things are but the thoughts P. You say, "In ceneral,"

in motion, is thought?

or "spirit" of the schools, so far as regards its high capacities, and is moreover, the "matter" of these

V. Yes. The universal mind is God. For new individualities easily is necessary. P. But you now smak of "mind" and "matter" as do the metsphywiciste. V. Yes-to avoid confusion, When I say "mind."

I mean the unparticled or ultimate matter; by "mat-P. You were saving that "for new individualities matter is necessary." V. Yes; for mind, existing unincorporate, is

it was necessary to incornate portions of the divine ming. Thus men is individualized. Divested of ular motion of the incarnated portions of the unparticled matter in the thought of man, so the mo-P. You say that divested of the body man will

V. IAfter much hesitation.] I could not have said this; It is so abourdit P. [Referring to my notes] You did say That divested of corporate investiture man were God. V. And this is true. Man thus diverted would be be thus divested-at least never soll be-else we -n nurrecules and futile action. Man is a creature. Creatures are thoughts of God. It is the P. I do not comprehend. You say that man will never put off the body?

V. I say that he will never be bediless. P. Explain. V. There are two bodies....the resignants and the

complete, corresponding with the two conditions of carnetion is progressive, preparatory, temporary, Our feture is perfected, ultimate, immerial. The eftimate hife is the full design. P. But of the worm's metamorrhosis we are nale

pably cognizant V. We, cortainly-but not the worm. The matter the ken of the organe of that body; or, more distinctly, our rudimental organs are adapted to the matter of which is formed the radimental body; but not to that of which the ultimate is composed. The ultimate body thus accome our rudimental somes, and we perceive only the shell which falls, in decaying, from the inner form; not that from form steelf; but this inner form, so well as the shell, is appreciable by those who have siready acquired

P. You have often said that the meameric state very nearly resembles death. How is this? V. When I say that it resembles death, I mean

that it reassities the ultimate life; for when I am abayance, and I perceive external things directly, employ in the ultimete, unorganized life.

V. Yes; organo are contrivances by which the tadividual is brought into sensible relation with parof other classes and forms. The organs of man are adapted to his rudusental condition, and to that only; his ultimate condition, being unorganized, is of unlimited comprehensions in all points but one -the pature of the volition of God-that is to say, a distinct idea of the ultimate body by conceiving It to be entire brain. This it is not; but a conception of this nature will bring you near a compreheneion of what it is. A luminous body imports vikration to the luminiferous other. The vibrations communicate similar ones to the outle nervo. The perve convers similar cars to the brain; the brain, also, similar com to the unparticled matter which permeates it. The motion of this latter is thought, of which percention is the first madulation. Thus is the mode by which the mind of the rudimental through the idiosyneracy of its ergans. But in the ultimate, unorganized life, the external world

reaches the whole body (which to of a substance having affects to besin, so I have said) with no other intervention than that of an infinitely report other than even the haminiferous; and to this either it. It is to the absence of Mosvacratic organs. therefore, that we must attribute the rourly solienited perception of the ultimate life. To rudimental beings, organs are the cares necessary to confine

P. You sneek of rudimental "beings," Are there other reducental thinking beings than man? V. The multitudinous conglomeration of rare matter into pebula, planets, suns, and other bodies the sole purpose of supplying pubsines for the idiobeings. But for the necessity of the radimental prior to the ultimate life, there would have been no bodies such as these. Each of these is terested by a distinct variety of organic, rudimental, thirleing creature. In all, the organs wary with the fantures of the place tenanted. At death or metamurphosis, these creatures, enjoying the altimate sects the sole pulpabilities, and for the accommodstion of which we blindly down space created-but

tion of the sarels.

vedimental life, there would have been no stare. V. In the morganic life, as well as in the ingrganic matter generally, there is nothing to impede the action of one simple sesons law-the Divine Volumes. With the view of producing impediment. P. But ugain-why need this impediment have

127

V. The result of low inviolate is perfectionright-negative happiness. The result of law violete is imperfection, wrong, positive pain. Through the impediments afferded by the number, comand matter, the violation of law is rendered, to a certain extent, practicable. Thus now, which is the inorganic life is impossible, is possible in the or-

P. And to what good end is pain thus rendered

V. All things are either good or had by coreparison. A sufficient analysis will show that pleasure, in all cases, is but the contrast of main. Postfive pleasure is a mere idea. To be happy at any one point we must have suffered at the same. Never to suffer would have bosn never to have been blessed. But it has been shown that in the incrpanic life, pain cannot be; thus the necessity for the organic. The pair of the primitive life of Rasch P. Still there is one of your expressions which

I find it impossible to comprehend-"the truly sub-V. This, probably, is because you have no sufficiently gazarie conception of the term "substance" itself. We must not regard it as a quality, but as a sectionest;-it is the perception, in thinking beings, of the adaptation of matter to their organinot be brought to approximts as existing at all. But, to the inorganae beings-to the angels-the whole say, the whole of what we terre "space" is to there the truest substantiality—the stars, mountime, through what we consider their materiality, escaping the angelic senso, just in proportion on the immateriality, cludes the organic,

As the sicep-waker propounced these latter words in a feeble tone, I observed on his countersure a singular expression, which somewhat alarmed meall his features, he fell back upon his rollow and expired. I noticed that in less than a minute afterward his corpse had all the stern rigidity of stone His brow was of the coldness of less. Thus ordinarily, should it have appeared, only after long pracsure from Agrael's hand. Had the alvemonibur. been addressing me from out the region of the P. You say that "but for the successity of the abadows?

The CRYSTAL EGG



yellow lettering, the name of "C. Care, Naturalist and Dealer in Antiquities," currously variegated. They comprised some elebeads and wespegs, a box of gless eyes, two skulis of tierry and one human, several moth-eaten stuffed moriters (one holding a lamp), an old-fashioned eablingt, a fly-blown ostrick erg or so, some fishing-

tackle, and an extraordinary firty, empty glass fish-tank. There was also, at the moment the story begins, a mass of crystal, werked into the shape of an ery and brilliantly polished. And at that two people, who stood outside the window, were looking, one of them a tall, thin clergyman, the other a block-bearded young man of dusky com-

SHOWERER was notif a year son, a little and very gramy-looking shop near Seven Disk, over which, in weather-worm

plerion and explicative contemp. The dusky young man spoke with sager posticulation, and second arcticus for his commanica to purchase the article. While they were there, Mr. Cave came into his shen, his board still wagging with the bread and object of their regard, his countenance fell. He

planted quiltily over his shoulder, and softly abut and peculiar watery bine eyes; his hair was a dirty over, and he were a ababby blue frock-coat, an aprient cilk hat, and carpet allippers very much down at the heel. He remained watching the two men

showed his teeth in an agreeable amile. Mr. Caveand when they came into

The clergyman, without Mr. Cave singled nerleading into the perior. and said five pounds. The

Mr. Cave, that the price very much more than Mr. Cave had intended to ask, bargaining coused. Mr. Cave stepped to the shoo-

door, and held it open, "Five pounds is my price," be said, as though he wished to cave himself the trouble of unprofitable discussion. As he did so, the upper portion of a umor namel of the door leading into the parlor,

and stored caricantr at the two costemers, "Five nounds is my nrice," said Mr. Cave, with a quiver The awarthy young man had so far remained a spectator watching Cave knowly. Now he spoke, "Give him five pounds," he said. The clergyman glanced at him to see if he were in carnet, and, when he looked at Mr. Cave again, he saw that sale. His two sustemers were naturally surprised at this, and imprired why he had not thought of that before he haven to harvoin. Mr. Case hearten confused, but he stock to his story, that the crystal able purchaser of it had already appeared. The still further, made as if they would leave the shop. But at this point the earler door opened, and the owner of the dark frince and the little even She was a coarse-featured, consulant woman, younger and very much larger than Mr. Cave; she walked heavily, and her face was fushed. "That

the latter's face was white. "It's a let of mensy,"

said the clergyman, and diving into his pocket. began counting his resources. He had little more

than thirty shillings, and he appealed to his companion, with whom he seemed to be on terms of omeiderable intimacy. This wave Mr. Core an opportunity of collecting his thoughts, and he began

to explain in an agitated manner that the crystal

erretal to for sale," she said. "And five pounds is a Cave, not to take the contleman's offer!" Mr. Cave, greatly perturbed by the interruption, looked augrily at her over the rims of his spectacles, to manage his business in his own way. An alterestion began. The two costomers watched the

ally assisting Mrv. Cave with suggestions. Mr. pessible story of an impairy for the cevatal that meening, and his agita-HERE is a tremendous story by one of the arratest lic-

who ended this curious

centrowersy. He proposed that they should call

again in the course of two

alleged enquirer a fals chance, "And then we

gyman. "Five pounds."

Mrs. Cave took it on her-

self to apologine for her

our throughut that it may, 5,000 years from note be quite If a civilization on mother world were sometime to comman he may of those. We make the proportioned to made and

THE CRYSTAL EGG

We recommend this amoring story to you.

bushend, explaining that odd," and an the two contomorp left, the couple prepared for a free disonselon of the insident in all its bearings.

Mrs. Cave talked to ber husband with singular directness. The poor little man, quivering with emotion, muddled himself between his stories, maintaining on the one hand that he had another cus-

tomer in view, and on the other asserting that the creetal was hopestly worth ten guineau, "Why did manage my husiness my own way?" said Mr. Cave. a very high epinion of Mr. Cave's business meth-

Mr. Cave bad living with him a step-daughter and a step-ean, and at supper that night the transaction was radiscussed. None of them had

AMAZING STORIES

ods, and this action seemed a colminating fully-"The crystal! Where did you hide the crystal?" "It's my opinion he's refused that created he-At that Mr. Cave, apparently much surprised, rushed to the window. "Isn't it bere?" he said. fore," said the stem-son, a loose-limbed lout of "Great Heavens! what has become of it?" Just then, Mr. Cave's step-son re-entered the

"But Fire Posseds?" said the step-daughter, an argumentative young woman of six-and-twenty. Mr. Cave's answers were wretched; he could antr murchin weak assertions that he knew his own business bast. They drove him from his half-nates supper into the shop, to close it for the

his spectacles. "Why had he left the crystal in the window so long? The fully of it!" That was see no way of evading the sale. After supper his step-daughter and atep-sun

amortoned themselves up and went out. His wife resired unstains and over a little super and lemon and so forth, in hot water, reflected upon the business aspects of the crystal. Mr. Cave went into the ornamental reckeries for gold-fish globes but really for a rejuste purpose that will be better explained later. The next day Mrs. Cave found that the greated had been removed from the window, and was lying behind some second-hand books on

the sheet. bredsche disinclined her from debate. Mr. Cave was always disinclined. The day passed disagreeably. Mr. Cave was, if anything, more almentminded than usual, and mecommonly irritable withal. In the afternoon, when his wife was taking her contours alone, he removed the crystal from

The next day Mr. Care had to deliver a congigument of dog-dah at one of the bespetal schools, creatal, and the methods of expenditure auttable to some very agreeable expedients, among others a evoreination couch, who came to commisin of the pon-delivery of certain frogs asked for on the previous day. Mrs. Care did not approve of this particular branch of Mr. Cove's business, and the wentlemen, who had called in a somewhat aggressive entirely civil ac for as he was concerned. Mrs.

for the sight of the crystal was an assurance of five pounds and of her dreams. What was her She went to the place behind the locker on the counter, where she had discovered it the day before. It was not there; and she immediately began

an eager search about the shop. When Mr. Cave returned from his business about the dog-fish, about a quarter to two in the afterneon, he found the shop in some confusion, and his metarial. Her face come up hat and sugry over the counter, as the janging bell announced his reshop from the inner room-be had come home phoming freely. He was apprenticed to a secondto find no dinner ready. Rot, when he heard of the loss of the crystal. he ferget his meal, and his anger was diverted

from his mother to his step-fether. Their first idea, of course, was that he had hidden it. But Mr. Cave atoutly denied all knowledge of its fate -freely offering his bedshilled stidevit in the metter-and at last was warked up to the point of accusing, first, his wife and then his ofen-con of having taken it with a view to a private rule. So hegen on exceedingly arritrorsom and emotions discussion, which ended for Mrs. Cave in a peculiar amuck, and coused the step-on to be half-an-bour late at the furniture establishment in the afternoon, Mr. Cave took refuge from his wife's emotions in

In the evening the topic was recumed, with less passion and in a more judicial spirit, under the presidency of the step-daughter. The supper passed unhappily and ended in a painful scene. Mr. Cave gave way at last to extreme exasporation, and went out hanging the front door violently. The rest of the family, having discussed him with the freedom which his absence warrented, hunted the house from exercit to cellar, boning to light group the

The next day the two customers called again, They were received by Mrs. Care almost in tears. It transpired that no one could imagine all that she had stood from Cave at various times in her merried atterirence . She also gave a carried account of the disappearance. The clergyman and the Oriental improved affectly at one another, and said it was extraordinary. As Mrs. Cave segmed deposed to give them the complete history of berlife they made to leave the shop. Thereupon Mrs. Cave, still elinging to hope, saked for the clergy-

rosm's address, so that, if she could get anything out of Cave, she might communicate it. The address man duly given, but superently was afterwards wished. Mrs. Cave can remember nothing about it. Cave's eye then naturally turned to the window; By the evening of that day, the Caves seem to have exhausted their emotions, and Mr. Cave, who had been out in the afternoon, supped in a gloomy isolation that contrasted pleasantly with the impassioned controversy of the previous days. For some time matters were very badly strained in the

Care beauchold, but neither ervotal nor customer Now, without mincing the matter, we must admit that Mr. Cave was a fiar. He knew perfectly well where the crystal was. It was in the rooms of Mr.

Jacoby Wace, Assistant Demonstrator at St. Catheripe's Hospital, Westburne Street. It stood on the aideboard partially covered by a black velvet cloth, builde a decenter of American whicky. It is from Mr. Wace, indeed, that the particulars upon which this narrative is based were derived. Cave had taken the thoug off to the inequisit hidden in the degeth's say, and there had present the years investigated to keep it for him. Mr. Were was a kintel admiss at first. Hill relationship to Grev were third admiss at first. Hill relationship to Grev were and he had more than once invited the sid man to ambie at most than once invited the sid man with a remaing views of life in general and of his worthing are supported by the property of which is previous. His wise had convention there were to attend to him. He know the constant interference to whach Grev was subjected, and knowled

wefe in particular. Hr. Wose had crossuttered Mrs. Cave, too, on consistent when Mr. Cave was not all horses to consistent with Mr. Cave was not all horses to consistent with the consistency of the weighted the above judicially, be decided to give the crystal a refuge. Mr. Cave promised to explore the reasons for the remarkable affection for the crystal reasons for the remarkable affection for the crystal thretty of saving visitous threcis. He called on Mr. Wase the same sevening.

theory or seeing vinitus thereis. He cause on air. Ware the same sevening.

He build a complicated obey. The crystal he said had eene into also passession with other oddinaris at the forced sale of mother curiesity dealer's effects, and not knowing what its value might to, he had ticketed it at the shillings. It had buse

he nod loosted II in the shillings. If he'd noisy upon his hands at that price for room sentths, and it was to binking of "reducing the figure," when he made a singular discovery.

At that time his healt was very hed—and it most he barres in mind that, throughout all this experiment of the most health of the mind that, the property of the most health of the mind that he has been been able to be an examined to the tree by resons of the technique, the profite differential teach, he received from his wide and step-children. His wife was take, extraorate, unfeilung, and had a grown was extraorate, unfeilung, and had a grown was extraorate, unfeilung, and had a grown

ing tasts for symbol officiality; life step-despites we mean and coveredating; and his beyone had consolved a visited stillade for line, and lost as opportunity of the stop of the stillade o

ing, his in August, chance directed him into the happ.

The dirty little place was impossively black ascept in one spit, where he perceived an unusual give of light. Approaching this, he discovered it to be the crystal segr, which was standing on the corner of the counter towards the window. A thin ray short through a crack it the shutters, inclined usen

the object, and seemed as it were to fill its entireterior. It occurred to Mr. Cave that this was not in accordance with the laws of orbits as he had known them in his yoursper days. He could understand the rays being reflected by the crystal and comman to a force in its interior, but this diffusion jurned with his physical conceptions. He approached the

to a force in its interior, but this diffuser jarred with his physical conceptions. He approached the crystal more nearly, perring into it and around it, with a transfect reversal of the salentile curbeity that in the years had obtamized his choice of a conting. He within within the rubetance of the early, as though that object was a healest sphere of one luminous vapor. In neviral shorts to get differted that the continue of the continue of the concat points of view, he auditarly found that he had come between the fitter y, and that the reyulal more the less remained luminous, Greatly astonished, he lifted it out of the hight ray and carried it to the durheast part of the shop. It recentled hright for some fiture of few mannings, then it also fided and went out. He placed it in the 6th attents of daylight, and the furnishments was almost in-

of daylight, and its luminousness was almost inmediately restored.

So far, at least, Mr. Wass was able to verify the remarkable skey of Mr. Cave. He had himself meantable half this contain to a rest field when

had to be of a smaler dimenter thus one nillimotivo). And in a sperfed indicates, such as could be proviously wiewly wrogang, the crystal disunsinhabide uponer very finiting happingeneous. It would not be a supplementation of the control of the world was a supplementation of the control of the control of the control of the control of the familiar to the selectific resider in connection with the Fruiter Institute—was quite unable to see any light whatever. And Srt. Woods one capacity for the control of the control of the control of the third of the control of the control of the control of the third of the control of the control of the control of the light whatever. And Srt. Woods one capacity for the control of the third of the control of the

during exists of entreme weakness and fatigues. Now, from the centre this light in the crystal execution 5 arminos functionally upon Nr. Come. And control of the control of public working could spin and the color of public working could spin and the control of the control of

common of the boy.

Bit the soo of an eld velved ricels, which he wood as the sound of the sound he sound he sound he sound he sound had both sound he sound he sound had both sound he sound had both sound he sound had both sound had both sound had both sound had both so sound had both sound had both

view of a wide and apartons and attraspe country, and, turning it aloved, but 64d, just as the light finish, ase the same vision again. Now, it would be tellures and unnecessary to state all the phases of Mr. Cave's discovery from this pitts. Sethol but the effect was their the crystal, pitts. Sethol but the effect was their the crystal, and the country of the country of the country of the free deep classification of the illumination ray, were classe and exception picture of a wide and peculiar class and exception picture of a wide and peculiar

country-side. It was not dynam-like at all: it produced a definite impression of residity, and the better the light the more real and solid it second. It was a moving picture: that is to say, certain objects moved in it, but slowly five an orderly manuar like real things, and, according as the direction of the lichities and vision shamed, the picture changed an oval glass at a view, and turning the glass about to get at different aspects.

Mr. Cave's statements, Mr. Wace assures me,

were extremely circumstantial, and entirely free from any of that contional quasity that think halluchastery impressions. But it must be rememhered that all the afforts of Mr. Wane to see with any similar clarify in the faint opalescence of the crystal were subdily unaccessful, try so be would. The difference in intensity of the impressions reconcernable that what was a view to Mr. Case was concernable that what was a view to Mr. Case was

a mare blarred nabulasity to Mr. Wasa. The view, as Mr. Cave described it, was invarito be looking at it from a considerable height, as if reddish cliffs, which reminded him of those he had Ware was unable to ascertain. Theor shifts passed north and south-he could tell the points of the company by the stars that were visible of a nightreceding in an almost illimitable perspective and fadour into the relets of the distance before ther met. He was nearer the eastern set of chilis, on the occasion of his first vision the sun was rising over them, and black against the sunlight and pale against their obsdow arceared a multitude of souring forms that Mr. Cave reparded as birds. A vast range of buildings surend below him; he seemed to be looking down upon them; and, as they approached the blurred and refracted alon of the nighter, they became inflictingt. There were also trees curious in shape, and in coloring, a down mostly green and an exorteite grey, beende a wide said shining caral. And nomething great and brilliantly colored flow

these pictures he saw cuty in flashes, his hands about, his botd moved, the vision came and word, and grow fingery and inflinistic. And at fact he look the greatest difficulty in findings the picture against the picture and the picture against the picture and the picture against the picture and the picture against the first, the interval having yielded nothing tot translating glimpass and some useful experience, abouted him the vice down the highest definition of the picture and the pictur

permitted, which his subsequent observations remained to the continuent, that he was reparting the integer world from carefully the some spect, although he was beloing in a different direction. The large faceties of the great building, whose root his had bound down upon before, was now recolling in perspective. He recognized the roof, In the freat of the faceth was a termor of massive proportions and extraoeditary length, and down the middle of the trarea, at a certain internals, stood large but

the turnes, at certain inharmin, stood huge but very graceful musts, bearing annil ship objects which refacted the acting sun. The import of these small objects did not occur to Mn. Cave until aware time after, as he was describing the seams to Mr. Woon. The terror covering a blocket of the most inner than a degradual varietistic, and pound this was a wide gramp, have on which certain preference are a wide gramp, have on which certain preference, reposed. Beyond this again was a righty described empower of suickels stage; and aboved that, and For exactly passible with the distant office, wis word and all provides capacing of whice. The six second find of expections of great bliefs, manescent multiple of positive of great bliefs, manescent multiple of positive buildings, rightly school and gill thering with authility trades positive for multiple of positive property of the positive buildings of the positive provides of the positive buildings of a juvenile face or the bearing of a juvenile face or the bearing of the positive face or the bearing of the positive face or the bearing of the positive face of the ceptain to have one and as if on the other side of the ceptain to have one and as if on the other side of the ceptain described the positive face or the bearing of the positive face of the ceptain of the ceptain of the positive face of the ceptain of the positive face of the ceptain of the positive face of the ceptain of the ceptain of the positive face of the ceptain of the

absolute reality of three cyas, that he draw his band back from the capital to hole behind it. He had hearine so absorbed in wetching that he was quite surprised to find firmed it is been consistent of the little step, with its familiar ofore of methys alcobel, making the constraint of the constrain

fashed momenturity as his arrows, his imagination was strangely affected, such as a longua to appear to the point of a position. He work about his business littless and destraught, thinking only of the time when he should be able to return to his watching. And thus a few weeks after his first slight and consideration of the contract of the constance of the contract of the contract of the conact exclusions of the contract of th

whether agreement is a second of the control of the

in any direction they desired.

So, having eleaned the way, we may give a brief
account of this videouse you'd within the crystal.
The things were in all cases seen by Mr. Cace, and
his mothlood of working was invariantly to watch the
crystal and report what he saw, while Mr. Wase
(who as a sulcose student had leaned the trick of

(who as a salence student had learned the trick of writing in the dark) wrote a brief note of his report. When the crystal faded, it was put into its box in the proper position and the electric light turned on. Mr. Wase asked questions, and save gested observations to clear up difficult points. Nothing, lofterd, could have been less viscourary and more nation-of-flow and the could have been less viscourary and more nation-of-flow and county similar regulat in this other

The saturation of Mr. Cowe had been specifly directed to the Nert-like creature, he had seen as shandardly present in each of this corber viscose. His first improxime was concreted, and he considered for a time that they might represent a durant species of this. Then he had, the headdered species of this, Then he had, a long. Their headware round, and earlymay braness, and it was the eyes of one of them that had a started alim as the acoust observation. They had bread, allevery wings, not feathered, but gittatening inflored as brilliarity out feathered, but gittatening inflored as brilliarity

an a new-killed fish and with the same subtle play of color, and these wings were not kuilt on the plen of bird-wing or bat, Mr. Ware learned, but supported by curved ribs radiating from the body. (A sort of butterfly wing with curved rits seems best to express their appearance.) The body was small, het fitted with two hunches of prohenoile organs, like long tentacies, immediately under the mouth. Incredible as it appeared to Mr. Wate, the persusation at last became irresistible, that it was these creatures who owned the great quasi-human hplitings and the magnificent garden that made the bread valley so splendid. And Mr. Cave perceived that the buildings, with other peculiarities, had no opened freely, gave the creatures egrees and eninto the interior. But among them was a multitude and moths and flying bestles, and across the greenaward brilliantly-colored signatic ground-beetles

crashed hardly to and fro. Moreover, on the converse that the second of the greater wingsed files, but wington; were wisible to the greater wingsed files, but wington; were wisible of the present of the second of

particularly vivid day, that the gilttering object there was a crystal cauchy like that into which be peared. And a still more careful partialty conversed him that each must in a vista of nearly twenty carried a similar object.

Generalization on of the large flying creaturas would future up to one, and, fielding lis wangs and coiling a number of its fundation about the mast would regard the crystal flowiff for a space,—commander for as tong as fifteen minutes. And a series of otherwittens, marke at the suggestion of Mr. Woze, currinced both worklars that, so far as this variousity would was concerned, the crystal last which they perced actually about in the contraction of the contraction

other westil had looked lefe. Mr. Cave's face while be was making these cherovites.

So much for the essential facts of this way simplife story. Others we disturbed it also the inpeatous falceisation of Mr. Wase, we have to bulleve one of two things; either that Mr. Cavels evalue was in two worlds at ones, and that, while it was accreded about is one, it remembed stationary in the

E had come perifier relations of sympathy with as-other and county similar cycled in this other world, so that such as are in the interior of the county in the county and the county of the county

And where was this other world? On this, also, the alert intelligence of Mr. Wace speedily throw light. After support, the sky darkened ramidly-there was a very brief twilight interval indeed-and the stars shore out. They were recognizably the same Mr. Cave recognized the Bear, the Pleiades, Aldebaran, and Strice; so that the other world must be somewhere in the solar system, and, at the utmost only a few hundreds of millions of miles from our own. Following up this clue, Mr. Wace learned that the midnight sky was a darker blue even than our midwinter sky, and that the oun scemed a little smaller, And there seem two small moons!-"His conmore but smaller, and onite differently marked"clearly visible as one regarded it. These moons were that is, every time they revolved they were actimated because they were so near their primary planet And all this answers quite completely, although Mr. Cave did not know it, to what must be the confition of things on Mara.

Indeed, if seems an exceedingly plansible conclusion that peering into the crystal, Mr. Gave did actually see the plansi Mr. and its inhabitants. And, if that he he case, there he evening size that abone so brilliarity in the sky of that distant video, was natible more nor less that our own familiar. For a time the Martins—if they were Martins— —do not seen to have known of Mr. Gave's insece-—do not seen to have known of Mr. Gave's insece-

tion. Once or twice one would come to peer, not come or many war plant by the same, Desting that the state of the come of the state of

wings at will. He several times was certain classes, bipods, dirthy suggestive of apex, white and partially translatent, feeding among certain of the licharous trees, and care some of those field before one of the happing, round-headed Martham. The latter cought one in its toutseles, and then the picture field entitlesh and left Mar. Come most translational. in the dark. On another occasion a west thing, that Mr. Cave thought at first was some gigantic inject, appeared advancing along the causeway baside the canal with extraordinary rapidity. As this draw mearer Mr. Cave perceived that it was a mechanism of shining metals and of extraordinary complexity. After a time Mr. Ware aspired to attract the stitution of the Martians, and the next time that the strange eyes of one of them supeared close to the crystal Mr. Cave cried out and surang away, and they immediately turned on the light and began to

gesticulate in a manner suggestive of signalling. again the Martian had departed. These observations had progressed thus far in early Nevember, and then Mr. Cave, feeling that the ampielous of his family about the crystal were silayed, began to take it to and fro with him in

order that, as occusion arose in the daytime or night, he might comfort himself with what was In December Mr. Wate's work in connection with tings were relativatily suspended for a week, and for ten or cleven days-be is pet quite aura which -he saw nothing of Cave. He then grew saxious to resume those investigations, and, the stress of

He rapped and the door was opened by the step-Mr. Wace could not but observe, in chesp but ample widow's weeds of the most imposing auttorn. With-Cave was doed and already buried. She was in tears, and her wise was a little thick. She had just veturned from Highgute. Her mind seemed occupied with her own prospects and the honorable details of the cheaviles, but Mr. Were was at heat shie to learn the particulars of Mr. Cave's death. He had the day after his last visit to Mr. Wace, and the crystal had been clasped in his stone-cold hards,

cloth from the minerals lay on the floor at his feet. He must have been dead five or six hours when he was found. This came as a great shock to Waca, and he began to represen himself bitterly for having neglected the plain asymptoms of the old man's all-health. But his chief thought was of the crestal. He aphe know Mrs. Cove's reculiarities. He was demb-

founded to learn that it was sold. Mrs. Cave's first impulse, directly Cave's hody had been taken upstairs, had been to write to the med clargyman who had offered five nounds for a violent hunt in which her daughter joined her, they were convinced of the loss of his address. As bury Cave in the elaborate style the dignity of an old Seven Dials inhabitant demands, they had anland Street. He had very kindly taken over a perthe lots. Mr. Wace, after a few suitable conscintory observations, a little off-handedly preferred purkage, hurried at once to Great Portland Street. But there facts in this eurious, and to me at least year apergestive, story come shruptly to and end. For a time Mr. Wace remained in the shop, trying the dealer's patience with horseless questions, weather his own the whole thing had passed out of his hards, had vanished like a vision of the night, he returned to his own roome, a little actualshed to find the notes he had made still tangible and visible upon his un-

his own said the crystal egg was included in one of

His autorance and disappointment were naturally very great. He made a record call female ineffertual) upon the Great Portland Street dealer, and be reserted to advertisements in such periodicals as were likely to come into the hands of a bric-s-bran collector. He also wrote letters to The Desile Chroniale and Nature, but both these periodicals, suspecting a book, saked him to reconsider his action before they printed, and he was advised that such a strange story, unfortunately so have of supporting evidence, might imperil his reputation as an investigator. Moreover, the calls of his proper work were ursent. So that after a month or so, save for an occasional reminfer to certain dealers, he had before a bird funcion's window, and than another at and from that day to this it remains undiscovered. Occasionally, however, he tells me, and I can cults

helleve him, be has bursts of real, in which he shun-

dons his more urgent occupation and resumes the

the material and origin of it, are things aqually

Whether or not it will remain lost for ever, with

chazer is a collector, one would have expected the elergyman and "Gricotal"-no other than the Rev. James Parker and the young Prince of Rosso, Kunfin Jaw. I am obliged to them for certain par-ticulars. The pirect of the Prince was simply curiesity-and extravegence. He was so enger to buy, because Care was so oddly reluctent to sell. It is just possible that the bower in the second instance. was simply a casual purchaser and not a collector at all, and the crystal ser, for all I know, may at the present moment he within a relie of one decorating a drawing room or serving so a paper-weight-its remarkable functions all unknown. Indeed it is thrown this narretive into a form that will give it a chance of heiny read by the ordinary consumer of fiction. My own ideas in the matter are renotically identi-

cal with those of Mr. Waze. I believe the crystal on the mest in Mars and the crystal age of Mr. inexplicable, war on rapport, and we both behaved -passibly at some remote data-sent hither from that planet, in order to give the Martines a near view of our affairs. Possibly the fellows to the crystale in the other mosts are also on our globs. No theory of hallucination suffices for the facts,

"Doubtless-I am very unexay on the point. We have certainly not enough water to last us five

"Be quite easy on that matter," continued my in fact, far more than we shall went."

"When we once get through this crust of lava-How can you expect arrings to force their year through these solid stone walk?" "But what is there to prove that this concrete

earth? I don't think we have as yet done much in "What puts that into your bead, my boy?" asked

my untile, mildly, "Wall it corears to see that if we had descended it rather better than we have."

"According to your system," said my uncle; "but what does the thermometer say?" "Searredy 15 degrees by Regerrer, which is only

"Well, and what conclusion does that bring you to?" inquired the Professor. "The deduction I draw from this is very simple.

Arearding to the most exact observations, the sugmentation of the temperature of the interior of the earth is 1 degree for every hundred feet. But

figure. The difference evidently depends on the con-

"Celculate away, my boy."

"Nothing easier," said I, pulling out my note-book and pencil. "Nine times one kundred and twentyfore feet, make a depth of cleven hundred and twentyfive feet."

"Archimedes could not have spoken more geo-

"Well, according to my observations, we are at

"Either my calculation in correct, or there is no The calculations of the Professor were perfectly cornect. We were already six thousand feet deeper

down in the bowels of the earth than snyone had man had hitherto penetrated was in the mines of The termerature which should have been eighty-

one, was in this place only fifteen. This was a (To be continued in our June issue)

To Our Readers

OME of our readers seem to have obtained the erromous idea that AMAZING STORIES publishes only reprints, that is, stories that have assessed in print STORIES publishes only repeints, that is, stories that have appeared in print before. This is on the case. We have a great number of new manuscripts on hand at the present time, and are buying quite a good many more. Today, more than at any other time, is the day of Scientifiction. Authors great and

small, are taking more and more to this type of fiction, and we are getting an excellent supply of stories right along. Our only problem at the present time is to find soom enough to publish all the good ones. If you or your friends know how to write a scientifiction story, the editors will be only too glad to look them gave. At the present time, only rather short stories are re-

oriend, as we are well stocked up for some time to come with scripls and long stories. II, on the other hand, you have heard of a good scientifiction story that may have appeared in print at some time or other, and which you think should be published in AMAZING STORIES, we shall be arredul to hear from you. We have an index of most scientific stories that have ever been published, but of course we can not know -EDITOR.

The INFINITE VISION By Charles C. Winn



or buildings a thousand fout in height, shows which ascerns of sourcess sirehips duried gonhrough the air. And the dashs were covered with they figures?

THE INDIVITE VISION able at my hands and I will build you a telescope

TELL you, gentlemen, this is a pretty nass of affairs. Here all the other branches of science are oven to prectiof one thing-that we have apparently reached the limit of development of the telescope, as evidenced

by these plates here. Something must be done. Can't any of you suggest anything?" and the cel Society enthaned to discous the results of the seems which had recently been completed in the

Policetty the results had been your too satiscongressions of the company. Helter, the chairman,

(Charachira and measures reflector might be satisfactorily comproved," mildly suggested Flambeau,

That individual gave a sport of diagust, and his

"What, that d- thing! Why that thing is pera striped pantake to me. Vibraticular action H You can't entirely eliminate vibration in

did in this case. Yes, I'd like to see you do sayenough to tyr it, after spending a million dollars.

An uneasy afterce folcurrounted by the Steller Universe where onles are the who realized that, in spite of his constriction.

temerity to copose his

tiently listening to the disarcrae. Gleon Fawworthy

perdelent in Astropany, but to an even greater degree in Physics and Chemistry. He had disclosed to been there to himself biding the day when their

Finally when the tenseness of the silence was

COLD meen was rising over the snow-capped. A numeric of the Antes Kange, upon our and highest peaks stood the grgantic Holton Ob-

On the steps of the hurs coursels building two short and red-haired, with bright blue eyes that

snapped belligerently behind thick horn-rimmed resolvates. His companies tell and dark had about him an indefinable atmosphere of quiet force and

For tex years those mon had been engaged in ture for the reception of the delicate apparatus

Six months are he had arrived with it. From men, they had worked almost night and Asy install.

function it was to perform. For acree moments the two stood, silently regard-

hones. Then the full dark wan relaine his even ingly, wablinkingly in the sculth. He spelce abortly Two hours later they amound, their faces trans-

figured with the light of great revelation. What AT THE opposite extremes of the warmingtone of

Torrety-from hours later the same men entered

the building again. This accommended by ten othof three continents. Harlwas there; Coron, the American chamists Plans

the four greatest observptories of the world, and others. In the center of the room to which ther were

analysis of stand the mossins merrors reflecter, the subject of the torrid discussion of ten years before. But now it was strangely altered. No larger was it shly, to a single spot in the heavens. Now it was fitted into a penderson sensitorial mounting as delleasely beleased as a precious chronometer. And its shirong curface no longer needed rapid rotation to metal was now set as rigid as steel. The master The party gazed in silence and wonder for a flight of stairs to a large room under the center of

It was a marvelous room, filled with an intricate was hunded series after series of vacuum tubes. mounted upon long panels of abusing bakehte. Another wall was completely heiden by a buge switch-

board, studded with a seemingly engless array of awitches, control knobs, rheostata and levers,

allows servers about hix feet square. Looking down upon it, the man could see the reflection of a strange piece of appaystus pointing directly down upon it, from the nesting above. For some moments the party stood graing in made wooderment at their appropriatings. Then Pag-

THE TELESCOPE NUTLEMEN! he said there before you

lies the results of ten years of intensive labor by Mr. Holton and myself—the rendered of the reffices dollars with which were so more to-night. However, I do not expect you to be

Then walking over to the hoard, he threw one of the switches. Instantly the low hum of an electric

"The power course from a good-sized hydro-elecsmiling gently, "Holton was an invalgable factor in the construction of the mounting for the reflector Then, turning to the board again, he moved a around to the cost. Another switch, and men the

a hope X-ray tube evenue into life, unseen to the

Parworthy speke sgain. "Gentlemen, I now have the reflector in the room below trained upon the shove, which speedily grew in pitch to a riercing white which even because femalities to the histories He turned a control knob, and two of the vacuum

tabes lighted up. Simplifaneously a strange beam of luminescence shot downward from the apparatus Garing down meen the arrest the men same an object that riveted their immediate attention.

There, as though fosting epon the silvery depths. Rapturously the group looked upon it. Farwarthr, with a dexternon twist of his wrist.

assured two more of the tubes into the circuit. The first owner faded away, and was replaced by one. filing the entire screen. Then, as bulb after bulb factual in the across showed only partices of the rolden surface, and the image grow more and more detailed. Now only one great mountain was visible. to the watchers; now only a portion of that mountain; now only a half dozen rocks upon its aurface.

Then the scientist, with an advocation to his compensons, threw in a switch which brought the last bank of tubes almultaneously into light The former places faded away, and in its place appeared a whiring mass of transparent apheres. visible only by the onelessent light referred from

their surfaces.

MOON'S MOLECULES

NYLEMEN." said Payworthy, his nan-

ally quiet veloe trambling alightly with cales of one of the rooks on the surface of our nated the one of the rooms on the surrace of our you fee the money, which you so kindly provided." A subdued murmur of sorrelation was the cubtack he received from the enchanted group of scientists, as they rapturously watched the flitting shapes before them.

For some recovery they stood street with the worder of it. Then Faxworthy absortly nulled open the switches, and the image feded from the arrest "Perhaps you would like a brust explanation of

the syoning," he suggested, at the same time glane-There was a general rodding of heads in assess

and he began. "As you probably know, I have been engaged in research work in Physics and Chemistry, from the are of twenty. During that time I have made some discoverios on these subthis present undertaking. Up to this time I have revealed their nature to no one except Holton, who And he disappeared up a ladder, leading to a recre In a recovert he returned, helding asserthing tightly elarged in his hand. Opening it he disclosed

a small fat tube. filled with a raddish visald Boald. in the extremities of which were seeind several free "This tube, gentlemen," exploited the retention "in the very heart of the apparent a year see should war Willhood It all mould be out laste tendent It con-

tains a quantity of a previously unknown element. assistante twenty years to irolate the amount of Lorism you see in the tube. With concessed free in that this element has the

asmo properties as seknium, only in a million times an absolute non-conductor of electricity, but let the tiniest ray of light strike it—though that my came across the universe—the substance immediately be-

agrees the universe—the substance immediately be-comes proportionately conductive. Within the lightflector comes to a focus men this tube. I shall not

slowly the sections grew less in extent, as they grew visiter and phiner in detail. Now the view was from the apparent distance of a million miles, now hours to explain satisfacturily. Due to the lack And slowly the delicate lines had grown in the discovery of this element further than to tell

DESCRIPTING MARK THEN drawing his watch from his pocket, he

closest possible supressed to the Earth. Then we

sound of ductant thunder became plainly sudthle in

arrows these magnifulns is coming un." he emissined

amply. "I will adjust the reflector now, lest it give

Evan when it recodes, see air currents will be atroclops!" oriod Flamboan in the first words he had

"One of the summer thunder storms common

"But Monaicur it will spoil the observation!

Paxeorthy made no verbal reply, but metioned

the clear mountain air.

stes, the planet Mars will have reached its

PTho dissetting was 2 belate applying their guide. "The ethor waves of the fertieth octave which have the property of expelling ell matter from their path. The range of the ray in the atmosphere is about all hundred miles, and as long as the telescope aligns in its path, it effectsally The wandering silence that followed was broken

only by a stifled "Mon Dieu!" from Flambeau. Tast one run could have produced to many wonders seemed almost incredible to the group of dis-The silence was not broken, even as their guide

led them back to the control room. Swiftly be brought the coloured telescome to the seroth, where the great red star still stendily gleamed, Syschronically the prescrible bond of light on the done swang Again the first two vacuurs tubes flashed into upon the screen the image of a great red star, mag-

considerated network of delicate lines could be disinto the elecust, and over the image increased in size and detail. Soon it covered the entire screen. New only rections of the surface were visible, and

THEN without warning. Farworthy spapped on all but two of the remaining tubes in the bank. Instantly the image on the acreen faded into observity, and in its place appeared a wondrous scare. There, as though from a ten thousand foot bird's-eye view, stretched a great city. They were looking down upon great buildings a thousand feet in bright, above which swarms of enormous airships darted greaefully through the air. And the darks were covered with they desired

breadth, until only two of them, now broad other

bands two feet wide, intersected in the middle of the screen, in the form of a large circular spot. The center of this spot was thickly strewn with small

MARS AT 10,000 PRITE

The last two bulbs dashed into life, and the view came to the apparent distance of fifty foet. The New fource users men. Perfect men of wonderful is a raiment resembling that in which Cassar's in a rainfell resembling that in which Oseser's on also, all of glarious form and frature, robed in

the structure. He pointed his florer to the moon, which was being electly charged. Pollowing his The last two tubes again faded into devirons and What they now was a phostly cylinder of faint lumintescence issuing from the small tower on the With an almost impropertible monament of his roof, and reaching outward into space as far as

hand upon a lever, he brought the landscape flushingo agrees the acreen in a giorious paporages. And while they viewed the surface of the dying planet from pole to pole, the storm that had been the observatory, but so engraved were they in the across the screen, now a waterway, new another eltr

miles, they viewed the aurisce of the planet from summit of a great mountain carped with an engry moun block blatch arrest arress their vision. With skillful hand, Faxworthy brought the strare back to the center of the errors. The Nack Metch was a loan huilding completely country the ton of the mountain, and towering five hundred feet stance! Again the bust turn bulbs flowbed into light

enormous concorn mirror two hursing fact in have been doing so for countless ages."

The MAN from the ATOM By G. Peyton Wertenbaker

(Sequel)



What Went Before

ROFESSOR MARTYN ume on inventor of minish in size, and Kirby agrees—with foreboding cration by merely pressing the middle butter on this little machine, which is attached with strans.

busins to destinich in size. Rut he has troughed so

stricken and decides to owner the Caton't button excessed to enable him to no back to earth and torthnonced in intellect that he feels like a some green then. He does not suderstand their less quant and connot understand their customs. He is

THE MAN FROM THE ATOM surface. A few minutes later I began to feel for

PART TWO: THE RETURN NEVER bepoint rever dreamed when t wrote the tale you have read, that I should ever see the earth agent. Who all the knowledge of insuperable fate

-or conchine year like it. And it is a story a than the story of my fourney. And Him that it is

When I hat wrote, I was living in a state of awfel estimates a man a planet of the star Debti-

her again? I fewer to merrow-but will also be I saw little enough of that world, and what little Martyn's aid, for a scientific magazine, But when boyen to grow large, the planets to become visible an they coroled in their paths. I had no desire

one of the pigueta and walted for it to grow larger.

and I could imagine to

scora loraplicable reason by I did not appropriate to that impulse. But I

brooked a great hysterical lough, and it must have been like the langhter of a god reverberating All this time the planet was growing bigger. It cinsting acrobatic antice, to propol myself far encush sway to place my feet almost upon it. Still th grow-or should I drop this playing with appearances, and eav that I shrank? In any case, its helpht in dismeter. Then I let my feet push through

"N this factabased are find the here a prisoner on the upon. In a little while the mechine and was deto me bours, I shrank little by little with in-

fights. There was nothing shoot me by which I could game my desired

until I had about Without you thought for nonsible differences in the atmospheres of this world customed, I feveriably pulled off my elocate believe and my said. I was created with a great breath of bettong in its freeh purity. Then, with a sigh, nork down late the soft grain, and watching the tall stalks rippling above me in the wind, I fell

When I awoke, it was dark. There were no stars to be seen and no moon, but there was a faint radiance, a phoenhorescence, upon the grain in

did happen. The clouds came closer and closer toward my moment more billowy and more illimitable. In a

little while they had enveloped my face, and a few It is now, I know, the groment when a wroter

been too sleepy to be interested. Instead, I looked down upon lang, rolling plains of golden grain. see. The ocean came to within a few inches of my glitter that might have been a city. There retrict

light wery selfon ponetrated through the clouds in all its ospicat aplendor, but the world was no There seemed to be a clear, diffused, bluich sort of hight over the fees of the planet.

report They were replaced manipules feelings

the first time since my departure that my own size "gravity" switch, rather undecided what would happen, and caring very little, I suppose. Nothing which I say. I did not rise for a long while, for I was thinking hopolooply of the furthity of my think with my world goose, of the now life I should not be say to build up here, learning everything all over again at broad I were a buby. After a while, knowing the motioness such thoughts as those might lead my life to the say in the say in

to build up here, learning everything all over again as though I serve a buby. After a while, knowing the mothess such thoughts as these might lead in the learning them and I stored up. I may massad at first to discover the prain about a feet above my beat lowe, for I had been it four two above my beat lowe, for I had been it four two above my beat lowe, for I had been it four two the had not grown a yard during the night! I seen realized, however, that it was I who had grown a little armaker, as the moshine centimod to move with facturating forwages. I now terrored the true

with increasing slowness. I now removed the thy instrument, whoch I had kept on after taking off the suft, lest it should come to have. I was pushed to know how I might reach either, tion, if there was civilization. But, remembering

tion, if there was diviliation. But, remembering the sax, it set if in the direction it thought it hay the sax, it is set in in the direction. It thought it hay critisarily light. I wished for a large part of the right. I shill not result to as so more than a few start of the results of the sax is suffered to the sax size. I remembered it so as on more than a few start washing among make that I must have taken the wrang direction. But no. A little white before the dawn. I heard the follow start of its revokers, and I seen was able to see it from the top of a limited to the sax of the s

the light of the city, assuming that it was a city, sorous the water. Of course, I could not see the dishing structures themselves, but an intense galdon realizate agreed stack over the sky, as though it might really have been the moon rising. I walked along the brech until down, and than I went up for a large part of the morraing, tevens

I were on for a large part of the morning, styring to reach a point upon the shows that would be directly opposite the GU, I should knowless is elicited to opposite the GU, I should knowless in these appeared. They came out of the cast, from the direction of the GU, fulley very low. They direct together, several laterated of them a knowless in the state of the state

came ancolling up toware my at a speci continuous beyond my finantination. I begins to wave my area wildly, and apparently I was soon, for the plane immediately decreased its speed.

A few minutes later, after passing perhaps of the beyond my, the plane turned and gittled along

the beeck antill it stopped a hundred mode or so overy. It was a small mechine of a most carriors and shibata design, but it did not differ vary realicially from those had even on the searth. A man lesped soil and came toward me. He, tse, was very like myself, but about a, tool teller, and with an extremely high freebood. His features were delicted, his body very high tool quite greenfal. He was undeabled, except for a belt of motal and several metal orientations under his rame and liese.

several metric connection upon into anno and representation of the carried a small, strugght instrument of metal in his hand, apparently a weapon, which was burned upon me. I writed my arms, and cried "Watt" or comething equally should, which, naturally, he could not understand. He did not trouble to rept, realising, I suppose, that our languages were different

form, some dive feet words and use feet long, with a rail of this retail about R. A small retail chairs of assume danger was afficed to the farward and, behind the centrician pointfreen and not down, at his command, in one course, Still heiding the tary instrument twart my thank, he then sourced east on my writte and one rable to a cottple of metal colfe, evidently for the purpose, upon be will. He flower the suff, after a centemptows examination, this times during these operations, in order to show

away from me, he allowed me to come up to the

plene. I was signalled to enter it. There was no cock-pit, no ordroure. It consisted only of a plat-

that my intentions were of the best. But be only stared at me with an expressionless free and turned sawy to the controls. If any shadow of expression was in his eyes, I famoud it was dispust. A moment later he rose swittly from the beach and turned toward the City, teaving me to my own

and turned toward the City, leaving me to may cover despondent reverte as we few over the writer with despondent reverte has view few over the writer with smanning swiftness. He must have given some signal to the other pisms low viriestes, for a short with later I assor them all falling in bridge, it was then that it associated, for the fart time, then they might all have been searching for me. I had frequent how enoughtons on paint bedy would have been the object to them, were form a distance, if any had been the constitution of the consti

would find very interesting, I am going to any realthing of the City sept. I save to sittle of it to draw any servorate conduction, and I have very little fleshing in the smallph, min after sub, extending far are ever the horizon; hublings of invasions height, standing such seary Justice's of yard height, standing such seary Justice's of yard height, standing such seary Justice's of yard perits of the standing such seary Justice's of yard and leget apparently at a uniform best, while I savport that in once way the closule show were artinicially dispatch to permit the bags one to be seen. We suffered through zerost parts in the plant offeren.

m on the reef of a building most the limits of the City.

A number of the tall men then gathered about us. They were all aleas abavon and they were a said widden, although their feee, like that of they reverse mouth, difficult, and impassive, as released, mill under the security of the little in young magazes, to a real of white metal contributions.

nis howing passages, to a cut of water meet contribing a low bed, gover mull chairs, a table, and other
ze, mere necessities. Food was put before me, and
und then I was left sleen. I never left that cell thereere after until the memorat of my final departure from
tal. the planet.
ust The days I apent in there were a long and

ensaminations. On the day that I arrived, after I had cates my mest, two of the men to whose cate I was committed came with a grant to import me. They and nothing during the whole time they were there. I was notioned to oxylink myself. Half in creditionsly, I began to talk, and they noticed as though they understood the committee of the men of the committee of the men of

learned to what fashion they interpreted my speech about my world. At interests they nodied, I sup-

THE MAN FROM THE ATOM

rose to secure me that they were listening. After awhile I was given writing materials. I wrote an ampeal to them to explain their world to one, so that I might take up the frayed enis of my life upon it. But always they only nedded at me, and were sent to my cell. They handled me as though I were an animal washing me with a negotiar met

I was appreciably close enough for their sensibilities. same two men who had first interviewed me came equip. Semetimes there were other visitors. Every day I was forced to submit to the attendance of the to. All day long, when I was above, I would wander restlende about thinking over and corr again the old, terrible thoughts of what I had seen and lost and would not know. I should have gone mad, I

me that I was understood. I might have given war these guards not always been there, with their tiny, But I was at least a little consisted with the write ing materials. Thereafter I was able to spend hours sana. I had never before realized so fully the want wonder of the alphabet, of this thing we call writ-

ing. By postering out all my heart toto words, by expressing the things that bong so oppressively lighter, and, verbana, a little baroic, a little fintter-But this, though God did not on on forever. Forone day Vinda come. She said afterward that it had been only cariculty which led her to my cell Breeybody in the City, everybody in that world, assert to have been will'do envisors to see the structure.

speakure from the distant stor. But Vindo was the doughter of the King of the planet, whose family, so far as I could gather, retained its supremary only so long as it retained its great intellectual power. Vinda's father, the King, was a Vinda came in sinte, with a guard of six men and an encort of six secentists. I will not say that

I loved her at first sight. I was indeed, amoned by her great beauty and the mobility of her features, so fine a contrast with the immonistiz of the men. She was not very tell either, test about my own height, and the most graceful worten I have over known. She reiled at me with a comewhat alouf interest, and then then she make! The first sounds of human speech I had heard on the alanet. And she sucke English! Only a few broken words, it is true. But I found afterward that she had learned them, furt for the amusement of it. from the reports of the scientists who examined me. him, so the came alone, with writing meterials and

from the men of that planet, and that I should not and which took the pisco of books. She had decided to learn my burguezo, knowing that here was incomprehensible to me, since at depended on a sense lated, perhaps, to the vague thing we call mental Oh, but I spent endless days of wander and an-

chaptracut there with Venda! Never once was I permitted to leave my sell, but I was content now. for it seemed that she brought all the beauty of the universe in with her, the compline, the gold and thing. God known hear I over folial to realize why those days were as beautiful but I did not. Not until I was some, and it was too late.

for she had what seemed to me a marvellous mind, now highly enterpred in that would the told see crafts simply, that women had never avolved there beyond a certain state of civilization, while men had seen on thousands of years ahead. Women, it seemed, were kept for the sort of untellectual isbour savage women. The men were creaters and teachers. They discovered, invested, reproduced, perfeeted endless marrellons things. Women, on the

other hand, understood them only in the detailed way of those who tend them, watch over them, care But I had to confess to her that my own intellect probably was not so advanced as here. And it is this it sames that made our communicately so do-

that my cell year ten throughly times an hore and The next time abe carse along, except for a single exent She had appealed to her father the King

there was something in me more annealing to Vinda than the impressive manhood of those effectists. Perhans, after all, it is only that I was unique. But We said wary little that time. She was rearred. After a while she retired, and it seemed to me

culm again. For-do you see?-I did not learn for a long time that only women language and played that placet. They did, indeed, scorn me, those men, when they saw me lengthing, as we would score a man who tailed with a presse voice and stapled and steemed minemaly about. But I him to think that

smiled even more brightly when also any my own

"Yon-are-Kirby!" Her accept-how could be reproduce the awartaess of that clear agent, so

her own armeavance? For a long time I can't say the scoreful gleam in the even of the men. She

"Kirtly? Yes. . . . yes, I am Kirby. Yes. . ."
And she smiled again, and I smiled unassure of

nothing, just stare at her open-mouthed, amened delighted. Then I managed to stutter some foolish

AMAZING STORIES

lighted. Women to those selectates ever regrety accorate of funtary remains the assets. That is the holospoint fact. Except in row examples were seen to be the cone for our neglectation."

bett can be for an explanation."

"Fack, Kirly," She always called now Kirly,

"Fack, Kirly," She always called now Kirly,

"All the same popular Martya, and the prest"

blology, but love.

So we were daily together for a long time. Each
so see were daily together for a long time. Each
so must of our conversation was wonderful to us
both, for is received to cosh of us the eacher life of
a please tunionse to us. I recomber yet; little of
what she teld me shout that planel—it seems that
Long regressions within a left Variab branch has law.

I can remember nothing but Yunda herself, her box voice with its delificous security, her eyes, her haireverything that a forer always rescenders. But I had not frequetten my longing for the earth. At first I was able to lose myreff in the worderful things the tool one of her yelent. But here, when I talhout of my own world, I become knownshit and I talhout on the world, I become knownshit and I would be the time of the thing it was more

hopshess. She seemed to grow more thoughtful as T apoke, but at the time I did not think it was more than an endeaveur to form mental pictures of the things I related. One day, however, when we had taked for a king time of the sorth, a sthree folbred which lacted for many minutes. At last the saids

"If you were able, you would return to your carth?" I raised my some despairingly. "God, yea?" I cried, "but the desire is all I have. No man can conquer time." Bhe was very thought-

ful for a moment.

"It has boun done," she replied after a while,

"But Vinda, one cament re-capture what is gone

"No," the agreed, "but one can do almost that.
I do not know—but my uncle has a recret—"
"A secret! What, What! Tell me what?"
"I must tell you first of a theory. . . ." She
pandered while I wanted hreathlassly, even forgetting her heavity as I watched her face for some

"You have uptken," sho said, "of a man called Elastinic or your earth, and of other man who believe that time is a fourth dissession and that it is corved. Some of them, you say, believe that spood is no carved that, if one goes sufficiently far, be will return to the point from which he started. Yours age we made offcorrels on this plants shoul

will return to the point from which he started. Years age we made discourties on this planet should be curvature of time. And our evidence has taught as that time pear in circles, in cycles. They say that, if one were to live forever, he, would find eventually the whole of history repeating itself."
"You man—-1"

"That a time comes when your world or this world, after having fived and cled, will live again and again die."
"With the same history, the same civilizations!"

"Yes. For they took so that there is a distingt in the life of it filling, that the growth of the universe follows deshrite outeres in which every foct, every includes, it interpretsly wowen into a tenture which embesses the whole, and that every author of most or nature (and man a part of authors) in inevitable because it grows out of animal forces. The secret of all this we somes hear averet learned it to the ready of the releasesting that the whole hear the control of the contro

"And the same people! Martyn, and the reet?"
"And the same people! Martyn, and the reet?"
That is what they say." I lesped up, and began
to walk widthy about. To return! To see Martyn
again, and the real! And then a thought same to
ms. I grimmal inticely.

rm. I grimmed betterly.

"But that will be millions of years away," I said,
"and I shall be dead." She looked at me for a long
white, and then she answered:
"No, Kirthy. You pussed millions of years in a

"No, Kirby. You passed millions of years in a few instead during your great journey. Do you not see that you see grow huge again ead that the millions of years will flash by an awifuly?" "By Jove—you!" I shouted. "But you would be haveing up yery seen!" she

"But you would be leaving us very seen?" she said.
"If that is true?" I cried. "Why, I would leave tomerrow!"

She turned away, and in a moment assured,
"Not to-morrow, perhaps, but in a few weeks." And,
suddenly, she went away.

I did not along that night with the worder of
this truly mileborate thoug. All night, all the
next morring. I passe conticely about my roun.

year to year and the property of the property

loy grays. I soon to see for an assess was as a in-thin modeliny like good, lie easil, for in-land power progression, which makes the electrical power progression, which makes the electrical ton of the universe shawing parts. If life farther advanced in each processive sycho before they decline agains. If described that as a cost of Risk dimension in turns, emparable he sold, to the path of the same which exercise the plants above, nor all this farther which exercise the plants above, nor all this farther which exercise the plants above, nor all this farther such as the plants of the plants are when the plants are such as the plants are normally employed.

remestly comfusing." I returned to the earth, I off chould find it a little further advanced than when the I fer it?

"Sumawhat Ear thet. Except that, if you read turned to your year 1957, you would find your

self in an ern comparable to the year 1967, he was a self in an ern comparable to the year 1967, he way, on the earth of the cycle you had left. In his croir to find your friend, Martyn, it would be necessing any which you would, therefore, have to entimate the year which you would, therefore, have to entimate the year that the year that you would, therefore, have to entimate the year that you would be the year.

all yuartelf."

Buth " I said, "there are thinge it is difficult to
the understand. In it true, for instance, that there will
the be another insertation of my body which will have
to a the earth at the same time I am returning?"

"It would seem so. And that incurration would
not sturn in the earth fillenths your wetter."

return in the cycle following your return."

"How complicated it all is!"

"That is only because we are not side to understand it as the scientists do. They speak, for instand it as the scientists do. They speak, for instand income of size. It seems that there
is a direction, which we cannot quite grasp menis a direction, which we cannot quite grasp men-

THE MAN FROM THE ATOM to spend to you spring sizes, before I could return

tion, which extends from the small to the greatnot comprehend with the dimension of time. The of which it is a part, an atom, as a difference in difference in miles or light-years between our sun and another sun of our universe

"But really, that is too obscure for me." "For me, too," ahn acknowledged. "But our selection rederstand" We were affect for a long while, she dresming some private dream of her own. I pondaring these wast conceptions that were beyond my grasp. I broke the silence first: "In all theories of time as a dimension, this point has always raised itself in my misd. If I were to return during some crists in history and foretall the mistake that would be made, could that mis-

"That " she anymored. "would come under the head of the progress which efulliantles makes from eyele to eyele, I think. You want remember that destiny to return at some center point in your lows, and any changes you might effect in history

Amin we were allegt. to me yet. I suppose that is natural. But we weget problem of finding the point in history where my world will be explose I left to?" She looked at the

very steadily for a recmort. You are sure you wish to go!" she said I smiled "I carned imagine wishing not to." I said . . . Oh, fool that I was! If I had only known how much

I aboutd some day wish to return to her, . "Then," she answered, averting her eyes, "I think I can bely you. You kept records of the time you apent in your journey?" "As well as I could," I realled.

"Con wer draw a diagram of the stars as they looked from your earth when you left?"

And, for the rest of that day I sat with her. drawing my more of the sky from momery, setting down swiresets from my tale of the former. When she left, she had all the information which she

Again I shall mass over the pest few weeks with a few words. During that time are rame such day with passe of the progress of her effects. Once or turies she required new information of me. She for me in his moments of relaxation (what an awful theorets that conjured in my mind of the intellectual Jahoon of these ment) Arragestly the men, by figuring the length of time I had been array and the position of my out it space, rould of all the stars in our universe, next, agreed on forme_things incorpointly to res. Having identified my world, he could then figure just the size I

should have to become and the time I should have

ship and other things. And, anyhow, it is my destiny," She sighed, SVes . It is more deather. In there rechards someone whom you live and who calls you hack to her?" I knowled lightly.

"By no megas?" I said, "I am immune, I have never fallen in love." For one lies, many times, without knowing it. "You are very unfortunate," also said, "or perhem very fortunate: it is hard to nov."

"Are you, then, in love?" I asked her. She looked out over the see, her face turned arror. "Yes." she replied almuh "Then I wish you the greatest success," I said

be that more are record intellectual than women, but It is contain that they are acceptimes many torrible

exted on the highest disl. It was impossible that ware allest. We want from my cell on through the

again to the world in its next cycle, unimaguable millions of cons in the future. When the day came on which all these salvala-

tions were finished. Vinda brought me my aust, which had been preserved and the marking She

in the universe I was leaving, regardless of the

various sizes I might assume. It had been connected

machine itself, so that the growth of the machine

world record a corresponding antifrees in the neasage of time. One dull recorded years, When the

mode reached a certain swiftness of resolution on

the dist, it ceased, and the next highest dist, in

thousands of years, continued the record alone, her-

ing followed the dial of the years to long as it re-

polyand. In turn this dial essent to record, while the millions of years were registered, and so on-

creased, each dist taking upon the record at the

on the various diale, and the presise point when I

must stop my growth and shrink again was indi-

awalted us. This time I would not be shained to

We nessed out through the City precisely as we toward the isolated apot where I had first appeared. Visds and I stood alone in the otern of the plat-"Do wer wet think," she said, "that you will be

disampleted when you return? Will you not find it very fronk to take up a hum-drum life after all

"No doubt I shall?" I answered, for now that I was on my way back, I could admit many things ther there will be the communications of friends

formally. And to you know? I was spidenty a little piezed, without at all knowing why. It may

So we went runking on through the sir, reni,

AMAZING STORIES

iesve that world? Perhaps, if I had spent all those tein Conoul, who fed and clothed me and bought me weeks in the open air and with Vinda, printage— my peaces, I cleads no doubt be wandering around but there is no perhaps. I can only know feets. the Sakars vs., carrying on my lanks a machine And it is a fact that I left ber, and that I leved be a feet of the concentration of the conc

We came to the deids upon which I had landed, three I yet on my milt with foverath back, as through afraid last it nest away under my hunds. I adjusted the machine and the chrostonets upon it with Vitoda's sid, and then, isolated in a profound silence within my glass globe, I obsed waiting for the base rat which I must begin my journey. It seemed to me that endine hours pussed while I

the hear at which I must begin my jecrney. It second to me that endine hearn pussed while I should there in here imperience, with the two carbons guards watching me. At the host quarter-boar, Vinda suddenly termed and went behand the machine, where I could not see her. But I was too healthy watching the fine of my serial-reside to see

salesy variating the rises or my structures to see sheef in say each.

For in say each, and the same and the same and the same and the same and waved my head at the two general see I present the top butting, which they gave me none has tolois glance and herried to the machina. I began, with the count diamenes, to grow, with closed eyes me the thrating electric firsh that through my witne. When, a moment bloth, these scrutiness had passed sway, and I aprend my orus, I and already grown or the thirty feet or so, As I located drown, Law Whate.

to Bully relate as a Al locate driven, I now Yushan bild her lock from a designation profit of the second relation for the second relation to the second relation of the second relation to the seco

elimbred unetcouldy back upon my foot again—inready searly elighty foot high. A moment later the place was from the ground and dareted neary estimatthe sea. For a long time i followed its diplet, such it had pushed up through the obside, and bed it. It certainly is not necessary to detail my return, for, in every respect, it was like the frech parmer,

for in every respect, it was like the first jearney. For a leng, impatient, mostdenous time, I great lenger and integer. Fortunately, it was not necessary to go beyond the limits of the ruckis, as by now I was documented to cell them. There, at a certain time, I preceed the middle batton and stopped, then I pushed the hottem hatton, and the heat, stone, of

I came book to the earth, without accident. In what the tworty-third up of May, in the year: 1447, that I service. As Virials and devently than year year desired which I had feel. I seem of form, and grade during which I had feel. I seem down, asfortunately except, in the Sakara desert, but not fortunately except, in the Sakara desert, but not difficulties I excensioned in security gray peaces had so New Yark. I sarriven, of essers, without a term of the second of the second of the second to the trail. Which I discussed at the sentirel suppotunity is force of a weekched taltier of rags which the malmont is noted as I would have been with

as at some to Nextyen Laboratory. I was immost to find at described. I was submitted by a lone, for his intensity as well as the property in the property of the state of the

On the day that I arrived in New York, I went

were said to constitute "the protects messure to an constraint of extil user." occurrently allow the civil user. The constraint of the con

with a modes rule of seaper all the sterility side that clotils of the fits. Yes, I can sympathie with that herder of the fits. The property of the with that herder of the fits and the fits of the fits the will in the kind with. For instance, the America I knew was a Regulita still, whereas run, yes know that it is the Moored with who don'd by Theoted and the fits of the fits of the fits of the fits which is now taken by the fits proposer. The other I, I, of pulse of this standard way other things, however, the world is not materially different from the useful. I

cellsbarether with Martyn, who at last has come into his own, on the journey which I have recommed only generally here. Teamerow may be a second of the property Teamerow may be a second of the property to the property of the last property of the teathricy, must realize by more the love which, soft unsuspectably. I fell for Vinde. After a few may be here. I soon weaklest the burrilds mixing a last may be for the property of the profer of a second that the level on as o well. During

here, I som realized the terrible mistale I had made — for I am sure that she loved me as well. During the last few years my hapting for her has grown more untharably greet with every hour, and I consol remain here any longer.

Temperator, Martyn will accompany me for the last time to that laboratory in the country which

He will my good-bye again, a final good-bye this time, and be will adjust about me the axis, the globe, and the machines. I will press the top button —the top button? And then—only a few burrs until

I see Vinda auxin.

Martyn has made the calculations. I shall appear It will of course, he in the next sycle of time, and there will be sharpen. But anythe my Vinda will be there, and I shall be shie to take her in my arms and tell her of all the love I have for her. -just as this Martyn is the same Martyn I left, There is one thing that sametimes worried rev double of mine, this other we. Perhaps he will have

the hatis of oreilestion?). Perhaps he will have most him there-most muself! How impossibly if saveres of Poe and William Wilson! For if we ment, and we both love Vinds, there will be only one way to settle it-we must fight, fight to the doubt northers, for this love is very great. And, if un are the same man will the douth of one mean the death of the other too? It does not matter. At least I shall be able to say at least once to Vinda

more perception than I have had (for does not each

The Infinite Vision By CHARLES C. WINN

Then the storm outside broke into its full fury. Lightning played in rapid streams, and thurder school and paschool with mighty din Spidenty a holt of alluding light reached down partially fused metal gave to the weight, and the great ray slowly fall in a wide are to the carth.

a terribba ery. "THE RAY!" he shricked and leaved toward the far end of the switchhoard! But it was With a sudden lurch, the thing on the roof had fallen completely to the perpendicular. There was a second frightful din as it rent assurder all within its with riming out the very vitals of the delicate

armaratus that gave it life! Then it grow dark And above in wild cadence the thunder drums of Nakam rolled out a nean of victory, over the shad tered fragments of the rash mortals who fain would know her innermost secreta.

Back Numbers of "Amazing Stories" T O doubt you will be interested to know, if you have not secures of first issue of AMAZING STORIES

"The New Accelerator," by H. G. Wells, "The Men From the dam" (First out)

"The Thing Fram-Outside," by George

"The Man Who Sound the Earth," by Aus-

"The Facts in the Case of M. Valdemar," Coules of this feue may be secured from

the unbilshers on mount of 25c, cain or stumps, as long as the sapply lists.

Address: Experimenter Publishing Co.

New Scientifiction Stories F you are interested in scientification stories, was will find several excellent stories, you will find tevers the same marraiges RADIO NEWS and SCI-

RADIO NEWS for May contains "The a very excellent radio story that will hold

In SCIENCE AND INVENTION the savial "Torrane the Canaveror", by Ray Cummings, has been rurning for sev-

wrote "The Girl in the Golden Atom" "Around the Universe", and "The Mon on the Meters". "Tarrens the Canoneror" is one of the welcolest and most guarating

stories it has ever been our good fortune to Copies of RADIO NEWS and SCI-ENCE AND INVENTION may be serured at all newstands, and but sumbers

Park Place New York City.

OFF ON A COMET



HE story oness in Africa-in Algeria-mar the sendel. An affect in the Proach ormu-Cantain Servater and a Restian noblemen -Count Timescheff-are cornering to fight a days about a lady. Scrunise occupies part of the time heetterrol, a sudden convolence occurred and a great phanes in the anthorne was noted. The run rose in groutly was reduced to that they could fusin to a sons a charge in the contour of the country and or the there was charged. Everything was altered.

The Business moblemen conseil a marke the "Dm see this on the distant aroan. Ske reaches the shore and finds a cafe harbor. Her owner leaves her and meste Cantain Rereaden. The dust under these is put to stork to employe the surroundings and to

up by the overre-con on the bettern of the lend. bed. Some English officers are found on an inslated and, which was supposed to be all that once left of the Rock of Gibralter. Presently a scaled two is found floating on the water-on old leather telescore care-trith a meanage from some efudent temperature, which has been even bich, man fell to that of inter-stellar space. Later, in the mids! of these fears, some more inhabitants are foundon a charming little old. Then another manner from the suspend astronomer is found fleating on the seesaw this time is a most one. The cost or

and solder they betale themselves to a core in the side of a velence, where the tensorature is heat there a third recessor from the astronomer. The arean new in france over. They and metal sleich. boot eneed and find on friend on which there is a find a man, experiently dead, but aske grown to have den considerer, o atronge retrieved to educar brought

Off On a Comet Or Hector Servadae Re HILES VERNE Rook II The only intelligible words which the astronomer had ottered had been, "My comet!"

THE return of the expedition, conveying its contribution from Formez-ters, the known population of Gallia Was raised to a total of thirty-six. On learning the details of his friends

that the exhausted individua who was Iving before him was algred decouverts picked up at edge of Gallia's movements; he

tial speed; but there was noth

To what could the oveleration refer? Was it. If so, was it implied that the name of the comet itself was Gollia, and were they mistaken in app-

> amana? Again and again they discussed these exections; but found. The only men who were able to throw any light upon them in an anconscious and Apart from motives of he-

marrity, metives of self-interest after making the encouraging

which it would be possible to recken what time must end serious injury to any ordinary mortal, whilst shares before also would seal a supercach the carth? they administered cordisis and restoratives from

his exertices to recall what were the circumstances

more and wore convinced that he had once been familiar with them. Perhaps it was not altogether varurising that he had almost forgotten him; he time of life which, with a certain show of justice, has been termed the age of ingratitude; for, in roint of fact, the astronomer was none other than Professor Palmyrin Rosetto, Servador's old science-

After completing his year of elementary studies, Heater Servades had entered the arbeit at Saint Car, and from that time he and his former tutor had naver mot, so that naturally they would wellnigh years from each other's precilection. One things. on the other hand, might conduce to a mutual and the year at the Lyofe, young Servader, naver of a very studies turn of mind, had contrived, as the wheelesder of a get of like calibry as hymnalf to lead the poor professor a life of percetual torment. and rare in a menner that was a source of un-

househol delight to his undispos-Two years after Servedac left the Lynde, Profearer Rosette had thrown up all educational emplayment in order that he might devote himself entirely to the sindy of natropany. He enforced to obtain a post of the Observatory, but his uncircles that he fulled in his ambigation; however on his own account to carry on his researches withdiscovering three of the latest of the telescopic planets, he had worked out the elements of the three aundred and twenty-fifth comet in the catalogues but his chief delight was to proticing the nubirations

of other astronomers, and he was never botter pleased than when he detected a flaw in their reck-When Ben Zoof and Negreto had extrinated their natical from the covelens of furs in which he had found themselves face to face with a shriveled little man, about five feet two inches high, with a round hald head smooth and shiny as an estrich's egg, no beard--union the unsborn growth of a week supported a pair of spectacles such as to many nearindividuality. His persons system was remarkably developed, and his body might not inaptly be comthe wire, bundrois of vards to length, in rermonted throughout by electric current. But whatever be he had been partially diseated of his slothing, his heart was found to be still beating, though faintly. Asserting that while there was life there was hope, hour, the astronomer beyond a faint sigh, which are long was followed by another and another He there correlately, but without exhibiting any cansecond to excame his line, but they were suite up his forshead so though instinctively feeling for something that was recount; then all of a aniden his features became contracted, his face flushed

*My angetrein Louisian, and an emission from In order to facilitate his operations, Boy Zoof had remared the spectation in quite of the tensority with which they succoud to adhere to the tensors of his policet; but he new rapidly brought them second to be their natural position on the systiffne rune. The professor heaved a low sigh of relief.

Refore long the astronomer roused himself a little relayed into his comptone condition. When next be opened his eyes, Captain Servadar happened to be bending down closely over hom, examining his features with surrous scrutiny. The old man darted said sharply, "Servadec, five hundred lines to-

It was an echo of days of old. The words were few, but they were enough to recall the identity

"In it possible?" he exclusived, "Here is my old teacher, Professor Rosette, in perr flesh and blood." "Can't say much for the feen," muttered Ben The old man had again fallen hack into a torrid

alumber. Bun Zoof conturned, "His aloon is setting is, being brought all the way from Egypt in cases "You idiot!-those were memmies; they had been

deed for ages." Ben Zoof did not answer a word. He went on remaring a warm bed, into which be managed to remove his patient, who seen fell into a calm and

nutural sleep. Too impatient to await the awakening of the had to make. Servadae, the count, and the lieutenant the "Academy of Sciences" of the Colony, spent the whole of the remainder of the doy in starting and discussing the wildest conjectures about their situation. The hypothesis, to which they had new accustomed themselves for so long, that a new asteroid had been formed by a fracture of the earth's surthat Professor Palmyrin Rosette had associated the name of Gallia, not with their present home, but being abandoned, they were driven to make the form his commenious that, although the professor

Don Tool more married his friction with more When the robbins had been continued without a yet he was really exceedingly good-hearted; his bark was worse than his bite; and if suffered to take their course without observation, his outbreaks of til-imper soldon lasted long.

"We will certainly do our best to get on with him," said the count. "He is no doubt the author of the papers, and we must hope that he will be

him," said the count. "He is no doubt the author of the papers, and we must hope that he will be able to give us some valuable information." "Beyond a question the documents have originated with him," asserted the Besterent. "Gallin was the word written at the five of overs one or them, and

Galla was the first word uttered by him in our bearing."

The astronomic alogs on. Hearwhile, the three together had no heartston in examining his preer, and cerutalisting the figures on his extensionated blacktoard. The hardwriting corresponded with that of the papers already received; the blacktoard was covered with algoristical symbole traced in

that of the papers already received; the blacktoord was covered with algorisated aymbole traced in their, which they were careful not to colliterate; and the papers, which consisted for the most part of detached acraps, presented a perfect withirmost of geometrical injures, comb sociliest of every variety being reposted in counties profusion.

Listanuari Precess pointed set that these curves collectly had reference to the estitud of consists, which are worked principles and properties of the estitud of consists, which are worked paracholic, teprachelic, or elliptic. If it was either of the first two, the constr. After some appearing within the range of terrestical violan, would wants forever in the outling regions of spaces if the list, it would be sure, sooms or lister, after notice puriodic linearly, its return. From the princip fairness of this papers, then, it section devoluted but the arteromete, they

tion, it is terms presented that the assessment, there is a supermental formation and the order of the supermental to the study of excretary oritin; and as extended to so that kind are ordinarily based upon the assumption that the orbit is a parabels, it was not unlikely that he had been endeavoring to trace the path of same particular comet.

"I wonder whether these calculations were made before or after the lat of January; it makes all the difference," said Lieutemant Processe. "We must tide our time and hear," reciled the

"We must hide our time and hear," replied the count. Servoise pased restlessly up and down. "I-would give a month of my life," he oried, unpersonally,

"for every hour that the old fellow goes skeeping on."
"You might be making a had hargain," said Process, smiling. "Probags after all the camet has had within the with the corondings that we have

cops, smiling. "Prohaps after all the conset has had nothing to do with the convention that we have experience." exchanged the captain; "I know better than that, and so do you, is it wo as clear

in cellities, and the result has been that our little words has been spill off and earth fying far into apaces?" Count Transchieff and the lieutenant looked at each other in alliance. "I do not dary privar liberty," and Precopal after as we that the conversas they we observed on the nighth of the extentiophe was the count thesi; and has velocity with which it was

iraveling must have been so great that it was hardly arrested at all by the attraction of the carth," "Plausible enough," neiword Count Timaschoff; "and it is to this count that our polentife friend bere has given the name Galfis." It still remained a puzzle to them all why the setronomer should apparently to interested in the comet so much more than in the new little world in which their attents lot was cast.

"There is no accounting for the freaks of philessphers, you know," and Servador; "and have I not bold you that this philosopher in perturbar is one of the most occurred beings in creation!"
"Besides," added the Brutenach, "it is exceedingly likely that has absorvation had been paying on for

perod."
Thus the general constants arrived at by the Gallins Assisting of Bursere was this: That on the Gallins Assisting of Bursere was this: That on the this selfigle, had ease fine sufficient with the sarch, and that the violeous of the abook had separated a hune fragment from the globe, whith fragment from that date had been inversaling the remote interphenature regions. Fluid with the sarch, interphenature regions. Fluid with the sarch,

CHAPTER II

THE General population of the colony the

as arrived of the stranger was a natter of small interact. The Spottaria were naturally too incident to be affected in any way by an incident that convented themselves not remotely, while the ematter, and an long as they were with him were conclusia as to where or her before present here days. Describing west too with them is an accustomed and avoids to their sweetstoms morning after mornour days to their sweetstoms morning after morn-

he was able to each cothing in the incoherent autenses that served to three any real light upon the problem that they were all maper to solve. When the aux recopered on the westers hereined the profuseer was still sound assemp and like Zonf, who was aspectify auxiliar table. He repose which promised to be no knodeful should not be districted, for the property of the property of the prosent of the property of the property of the appropriate and the property of the property of the of the gallery, more for this propose of restallery, more for this propose of restallery.

internal warmth then for guarding against intruains from without.
"Confound it?" and Ben Zoof. "I must put a atop to this;" and he made bis way towards the "Who's there?" he creed, in no very amisble tone.

PRODUCE Section 19

"Prom the Balastic Jales" "Who are you! "Issae Hakkabut, Let me in: do, please, let me "The I "Oh, it is you, old Ashtaroth, is 9t? What do

you want? Can't you get saybedy to buy your stuffe? "Natedy will pay me a proper selco.

"Well, old Shimes, you won't first a customer have You had better be off."

"No; but do, picano-do, picano, let me in," run-

"The enverser is in bad, and select." "I can wait until be awakes.

"Then walt where you are." And with this misospitable rejoinder the order);

nations, when Servedge, who had been wrough by the nound of vocces, called out, "What's the matter, "Oh, nothing, sir; only that hound of a Hakkabut

Let him in them."

"Lot him to, I car," repeated the cartain, ver-However reluctantly, Ben Zoof obered. The door an old overcoot, shuffled into the gallery. In a few

way to the central half, stopped, and torning so as opportunity. Tell me what you went."
"Oh, no lord, my lord," whited Issae, "you must

"News? What do you mean? "From rev little tartan vander. I now the word

it come back, and it brought a stranger; and I "Well, you thought-what did you think?" "Why, that perhaps the stranger had come from

I mucht sele hum-He named again, and gave a glarge at the

ceptate "Ask him what? Speak out, man," "Ask him if he brings any tidings of Europe," Servadas shrupped his shoulders in contempt and turned away. Here was a man who had been real

deat three months in Gallia, a living witness to all berraise with European traders was at an and Sarely nothing, thought the contain, will convince amountent, was by no means distinctined for the conversation to be continued. "Are you satisfed

"Lin't it so? Am I not right? Didn't a stranger arrive here last night?" inquired the Jew.

"The Release Islas?" school Isaac. "Fine quarters for trade! Hardly twenty learners from Spain! He must have brought news from

"Well old Managarb, what if he has?"

"Carde he!" The Jew sided close up to Ben Zoof, and laying his hand on his arre said to a less and toring time

a few reals if you would let us talk to this But as if he thought he was making too liberal

on offer, he salded, "Only it would be at once "He is too fired; be in worn out; he is fast salarn," answered Ben Zoof. "But I would pay you to wake him."

The captain had overheard the tener of the conyou make the least attempt to disturb our vallor. I shall have you turned optain that door turne-

"No offeron, my lord, I home," starrengered out the "Silence?" abruted Servadeo

"I will tell you what," and Servadae ofter a brief straneve boy to tell as been as he is able to tell us

The Jaw looked perplexed "Yes," said Servadae; "when we bear his story, ron shall been it too 5 "And I hope it will be to your liking, old Enchiel!"

added Ben Zoof in a verce of frony, They had none of them lone to wait, for within a few minutes Rosetto's poevish voice was heard calling, "Joseph! Joseph!"

The professor did not open his eyes, and appeared to be alumbering on, but very shortly afterwards called out again, "Joseph! Confound the fellow! where is he?" It was evident that he was half dreaming about a former servent now far away on the ancient globs, "Where's my blackboard, Joseph?"

the orderly's face. "Are you Joseph?" he asked. "At your service, sir," replied Hen Zoof with imperturbable gravity.

"Then get me my coffee, and be quick shout it." Bun Zoof left to go into the kitchen, and Servadas rising to a sitting posture.

"Do you recognize your quentum pupil, pro-"Ab. yee, yes; you are Servedae," replied Be-

sette. "It is twoive years or more since I naw you; I hope you have improved." "Quite a reformed character, sir, I assure you,"

"Well, that's as it should be; that's right," said the astronomer with fussy importance, "But let me have my coffee," he added imperiently: "I cannot collect my thoughts without my coffee." Fortunately, Ben Zoof appeared with a great cup.

OFF ON A COMET "Where, then," cried Servadec easterly, "where

KIN WE'D

not and strong. After draining it with much spnevert reliab, the professor out out of hed, walked into the common hall mound which he shared with a pre-occupied air, and proceeded to seat hissalf in of the Doorses and supplied. Then, is a voice full of satisfaction, which involuntarily recalled the ex-

There was no time for anyone to make a real-

"Who is that ?" asked the startled professors and he frowned, and made a greature of recognitions.

bessech you, give me some tidings of Europel' his sout as if he were electrified; "what does the

"I want to not there!" screeched the Jows and in anite of every exertion to get him away, he clime most tenecopyly to the professor's chair, and again imployed for news of Berene

Rosette made on immediate reals. After a way ment or two of reflection, he turned to Servadae and asked him whether it was not the middle

"It is the twentieth," surveyed the captain.

with the greatest deliberation—'to-day we are just three millions of leagues soway from Europa." "You seem here," continued the professor, "to

"How far we are ignorant," rejoined Servadae, "I carnot tell. But I will tell you all that we do briefly so be expld, be related all that had homeuned since the memorable night of the thirty-first of December; how they had experienced the shock; how the Delowes had made her voyage; how they old continent at Tants, Sardisia, Gibraltar, and premous documents had been received; and, firally,

The satronomer had hardly patience to hear him "Our supposition," the captely realied, "is this,

"Fetter than that!" cried Resette, starting to his feet with excitement "How? Why? What do you mean?" oried the

"You are correct to a certain degree," continued 25.6 seconds after two o'clock on the moraing of

graved the earth; and the bits of the earth which They were all fairly bewildered.

"You are on you comet on Gallie should!" And the professor pased around him with a ner-CHAPTER III

THE PROPERSON'S EXPERSENCES 7 RS, no comet!" repeated the professor, and

looked awared hire with a defrect afe on though he could not est rid of the impression that proprietorship, or that the individuals before him were intruders upon his own proper Assain. But for a considerate while, Servadee, the count,

and the Besteront remained elient and suck in themsely. Here then, of last was the providence of the enigms they had been to long endeavoring to solves both the hypotheses they had formed in sucment of the real truth. The first supposition, that some accidental modification, and the conjecture that replical it, somely that a certain partice of the turrestrial subers had been splintered off and carried into space, had both now to yield to the an unknown cornet, which had caught up some testthem for away into sidereal regions. Unfolded inv the past and the revent before them; but this only Could the professor throw any light upon that?

Mounwhile Rosette assumed a pottoous profesparty to be reremoniously introduced to him. Quite man, Servadae proceeded to go through the expacted formalities "Allow me to present to you my excellent friend,

the Court Timaschoff," be said. "You are very welcome," said Basette, hawing to the event with a smile of condecessation. "Although I am not precisely a voluntary resiofge your courtoons reception," gravely responded

Servedes could not quite ornical his ammoment of the count's irony, but continued, "This is Lieutonent Proceeps, the officer in command of the

The professor bowed again in frield dignity "His recht has conveyed us right around Gallis," reliand the contain.

"Around Gallin?" eagerly exclaimed the pro-"Yes, entirely around it," answered Servader, and without allowing time for reply, proceeded,

this is my orderly, Ben Zoof." "Aide-do-extrp to his Excellency the Governor

maintain his resoter's honor as well as his own. Reactic scarcely heat his bead, The rest of the population of the Hive were and Disk

all presented in succession; the Russian sallers, the Spaniarda, young Pabba and httls Kins, on whom the professor, evidently no lever of children, glared flarouly through his formidable spectacles. Issue

isroely through his formidable speciacies. I reso Hakkahat, after his introduction, begged to be allowed to sak one specialon. "How soon may we hope to get back!" be in-

"One book!" rejoined Rocatic, aburgly; "who talks of setting toold We have harely striked yet." Source has the problems was inclined to get source has the problems was inclined to get to the ownermation for a source to the ownermation for the setting to the ownermation for the setting to the ownermation for relating this owner near one permisses. The astronours enemally those in the ownermation for the setting the ownermation for the setting the ownermation for the setting the ownermation of the setting the

sorting automaty presents the wan features. The Period Georgeonte, sheigh addition of verifice Period Conference, sheigh addition of Verification of Paris, appropried a relateful condition for that papers, Period Recombination of Paris, appropried a relateful condition for the papers, Period Recombination of Period Period Conference on the Peri

Assertingly, leaving Paris for the Bilassie Bilas, by placed his closerizery on the highest points of the placed his closerizery on the highest points of Permuthers, and accompanied at he was only by the processing of the proces

which would innourraine his name. The task he had undertaken demanded the utmost positiones. Night after night, in order to fit the most positione. Night after night, in order to fit the night of the assistant's signal-light, but he did not forget that his produceness, Arape and Biot, had had to wait aixy-out days for a similar purpose. What re-incided the week was the dense fog which, as maximally also the similar to the contract of the cont

itohed hence, at that time enveloped not only that part of Europe, but almost the entire weeks. Never facing to turn to the best advantage the few intervals when the raint lifted a little, the activationer would at the same time seed an inquiring glance at the frankment, as he was greatly interested in the revisions of the chart of the heartes.

in the region contiguous to the constitution Germini.

To the naked eye this constitution consists of only only stars, but through a tabaccape ten inches in diameter, as many as six thousand are visible. Reactio, however, do not possess a telescope of this magnitude, and was obliged to content himself with

the goal but communities and instrument by

hed. On one of these occasions, whilst carefully gauging the receases of Genini, he aspied a teleph specking the receases of Genini, he aspied a teleph speck first he took for a small star that had samped before onlessed in the catalogue. But the characteristics of a few segarates applies seen under it manifest that the star was rapidly showning its position with regard to the delicent stars, and the astronomoral heast

togoth as the discovery of a new planet would be associated with this name. Redoubling his attention, he seem satisfied himself this which he naw was not a planet; the rapidity of the discovery has been satisfied himself the state of the contract wither forced him to the owner of the state of the state of the state of a contract of a contract when some strengthesial by the latter of a contract administrative for the state of a contract of a contr

the one, by the development of a tail,

A come! The discovery was fast to all further
progress in trianguisition. However conscientions;
the assistant on the Spenth coast might look to the
kindling of the beaver, Recette had not a giouse to
kindling of the beaver, Recette had not a giouse to
approfer that direction; he had no eyes except for
the one object of his notice, no thought apart from
that of one quarter of the Greenwer.

and one quarter of the irransent.

A constit No time must be lost in calculating its elements.

Now, in order to calculate the elements of a count, it is always desired the suffect made of pro-

contains to the course the course of the cou

points to determine the circumference, so, in ancertaining the abusents of a come, three different positions routs he observed before what astronomercall its "ephemeris" can be established. But Professor Resette did not context himself

with three positions; toking advantage of every
this the fee he made ten, twenty, therty chaeves
time both in right accession and in declination,
and assessed in working out with the ment valued
accuracy the few elements of the come the which was
et evidently advantage with assessed in yellow to
warfe the outh.

There elements were:
L. The inclination of the plane of the cometary

orbit to the phase of the collects, an angle which to be passenily considerable; but in this case the planas were proved to collecte. 2. The position of the ascending node, or the

2. The position of the ascending node, or the point where the count crossed the terrestrial orbit. Those two elements being obtained, the position in space of the country orbit was determined.

 The direction of the acts major of the orbit, which was found by establishing the longitude of the comet's perfiellor.

The perihellon distance from the sun, which settled the precise form of the nevalule.

Resette their found himself able to calculate the calling it Palmyra or Broette, after his own rame. he resolved that it should be known as Gellia. His next business was to draw up a formal report. Not solv did he at own recognize that a col-

To my that he was cloted at the prospect was for below the troth; his delight assumed almost the solitude of Fermenters in sheer fright; but, without communication a word of his startilor disboth hemispheres, so that he was assured that the that threatened it exerted the panie that would have philosopher of Formenters in sele peasession of the

accomplished to the post of Alexe's, and so it had a The shock same, and with it the results already from his servant Joseph, and when, after a loas

the professor save with sundry repetitions and assured by no means justified by the nations and

good-humored demeaner of his audience.
"But new, restlemen," added the prefersor, "I must tell you scorething more. Important changes that I was still upon the earth. No! the earth, atproper orbit. But we, pentlersen, have nothing to we might all have been crushed to donth, or the

cornet might have remained in adhesion to the curcion through untraversed selar regions. No. rentlemen, I repeat it, we have nothing to regret."

have met with some registance.

"Mele-hill" excisioned Ben Zoof, stong to the onick. "I can tell you it would have caught up your bit of a correct and more in like a feather in a con "

The reeffector incked approx, and Servadar having irrespend affirmer many his orderly, explained the Montmartre, Always obedient to his master, Hen forwise the slight that had been cost upon his be-

It was now all-important to learn whether the autropages had been able to continue has observed Gallia's path through space to make him correctent to determine, at least approximately, the period of to determine, as least approximately, the period to and coulten as he could Lieutenant Processe on

information on this point. "Before the shock sir," arraward the professor. "I had consignized demonstrated the path of the except; but, in consequence of the modification which that shock has entailed arrow my comets orbit. I have been compelled to recommence my calculations

The lieuterant looked disappointed. "Although the orbit of the earth was mallered." continued the professor "the month of the college." was the projection of the comet into a new orbit

"And may I ask," said Procope, deferentially

"Then perhaps you know-"I know this, sir, that at 47 minutes, 35.6 sec-

onds after two seleck on the morning of the let of January last, Gallis, in passing its ascending neds, come to contact with the earth; that on the 10th of January it erosand the orbit of Verent that It reached its peribelian on the 15th; that it recrossed the orbit of Verge; that on the let of February it pussed its descending rode; on the 13th crossed the orbit of Mara; entered the some ed the telescopic planets on the 10th of March, and attracting Norma, earried it off as a astellite,"

"We are already acquainted with well nigh all these extraordinary facts; many of them, moreover, we learned from decorated which we nicked up. and which, although unelgoed, we cannot entertain Professor Resette drew himself up proudly and sold: "Of course they originated with me. I sent

there off by bundreds. From whom else could they come? "From no one but vaccoost, pertainly," related

the count, with grave politoness, Hitherto the conversation had thrown no light was disposed appearently to evade, or at least to post-

pone, the subject. When Lieutenant Procope was press the little secont too far, interrupted him by asking the professor how he accounted for the earth

AMAZING STORII

having offered or little from such a forminished "Africal est." Why straid of such a mentager of memorial and the such as hours, and Galifa at the rate of \$2,000 mm of \$2

about \$0.000 losguee am bour had auddouly encountered some obstack. The audous of the cross, being encounterly hard, but done cately what a half of gines. It has aroused the earth without enabling it."

"It is seesible you may be right," and Servadou.

The is seesible you may be right," and Servadou.

thoughtfully.

"Itight of course I am right!" replied the anapptile professor. Seen, recovering has equationally, however, he continued: "It is fortunate that the earth was only teached obligate; if the count had

array was only toolsed conjuncy in the comes has impliced preparadicality, it must have plowed its way deep below the surface, and the disasters it might have consed are beyond reckening. Perhaps," he added, with a surface, "even Montanter might not bare survived the calamity,"
"Not "I should like Noof, cuite mushis to bear the

unprovided sittack,
"Quidel, Ben Zeed!" said Servadae stersily.
Porturately for the sake of peace, Isaac Hekkebet, who at length was beginning to realise cometting of the true condition of things, came forward at this mercent, and in a voice tremtting with asper-mas, impliced the professor to teld him when they

"Are you in a great burst," a server.

"Are you in a great burst," a server.

The Jew was about to speak again, when Captain Servada: interposal: "Allow me to say that, in accurate interposal: "Allow me to say that, in accurate into me clerifite terms, I was about to sak you the same question. Did I not understand you to any that, on a the nonvenerance of the collision. The

haracter of the comet's orbit has been charged?"
"You did, sir."
"Did you imply that the orbit has ceased to be a

"Just so."
"Is it then as hyperboln? and are we to be corried on far and away into remate distance, and

"I did not say an hyperbols." "And is it not?"

"It is not."
"Then it must be an offport"

"Yes,"
"And does its plane coincide with the plane of the orth!"

"Yee."
"It is."
"It is."
"It is."

Servoice involuntarily relord a ringing about of joy that ocheed again stong the gallery. "Yes," continued the prefessor, "Gallia is a periodic conet, and allowing for the perturbations to that it, it is the form the attraction of Mars and

in two years precisely."

"You meen that in two years after the first shock,
Gaillo will meet the earth at the same point at
which they may before?" said Lieutenant Present.

A REVISED CALENDAR

A LI, previous hypotheses were now forgotten
in the presence of the one great fact that Gallin was a cornel and pravisiting through remote solar regions. Captain Servados became sware
that the large size that had been founding through
the cloud after the shock was the retresting earth
to the next will be one high the deto the next will be one, but his the

the clouds after the shock was the retreating earth, to the proximity of which the case high this they had experienced was also to be attributed. As to the fubilizers of the professor's prediction of an ultimate return to the ferrestrial sphere, that was a point on which it must be owned that the

over, was not without many migritings.

The next day or two were specif in providing for
the accommodation of the sweezers. Fertunately
his desirus were very medicate; he seemed to live
assume the stres, and so long as he was well provided
with quoties, he carrel little for luxuries, and paid
fills or no regard to the neggerity with which all

Grised. Anticon to show all proger respect to his feature time, Servideo proposed to per the meat camfershib quartereri of the place at his disposal; but the preference resolvant declined to eccept pit the preference of the place at mind chamber, no matter low small, present of the second chamber, no matter low small, present of the second secondary to the the ceed the six as an chamber, and sechaded, not that to ceed the six as an incharactery where he might centions bit studies without disturbance. A second search was instituted, and before his present search we have been also before his present search of the present search of t

sife, which would exactly ensure their purpose. It contained room enough for a bod, a table, an armchair, a cheat of drawers, and, what was of still more consequence, for the indispensable telescope.

mere overequeuee, for the indispensable telescope. One small stream of laws, an off-shoot of the great torrest, sufficed to keep the spartment warm. In these retired quarters the astronomer took up ble abode. It was on all heads submyddeed to be

advisable to let blm go on antirely in his own way. His meak were taken to blm at stated interesting, he slapt but bittle, earried on his estimation by day, his observations by alph, and very rarely made his agreement amount the rest of the little com-

The cold now become very intense, the thermoneter registering Di Cl. below zero. The morrury, Lowwer, sever exhibited may of these fluctuations that are over and again to be observed in variable effects to be continued showly and steedily to full.

that are over and again to be observed in veriable elimates, but continued slowly and steedily to fall, and in all probability would certifue to do so until it reached the normal temperature of the regions of outlying space.

This stoody claking of the mercury was accompanied by a complete stillness of the atmospheres the very air seemed to be congenied; as particle of it attreed; from senith to hardson there was never a cloud; settles were there any of the damp nists or gions of the earth; the sky was always clear; the sun shone by day and the stars by night without cans-

torrible saves drifts, which, by drying an relaxing doldling their preser frontless. But during you lods of calm weather, when the air was absolutely atill, many polar navigators, well-clothed and prepwhen the thermorester fell to \$6' below seen. If the erew of the Poleris, that, however intense the celd, in the absence of the wind they could always

Netwithstonding, then, the extreme lowness of the temperature the little negulation found that they were able to more about in the eree air with nerfect immunity. The Governor General wasts it. his special care to see that his perpie were all wall fed and warmly clad. Food was both wholesome and abundant, and besides the furn brought from the Dobryon's stores, fresh skins could very easily be course of out-door overcise was enforced upor

in furs. like little Economics, skated alone to After his interview with the newly arrived petropemer, Isaac Halckehot slunk back again to his no longer resist the conviction that he was indeed millions and millions of miles away from the earth. a traffic. It might be imperined that this realization mind, and that, in seem degree at least he would have been induced to regard the few fellow-creaturns with whom his lot had been so strangely cost,

otherwise than as more instruments to be turned to his own personal and personary advantage; but no-the desire of only was too thoroughly laand secure in his knowledge that he was under the profestion of a Preach officer, who, except under

On the one hand, the Jew took it into account that although the chances of returning to the earth might be remote, yet from what he had beard from the professor he could not believe that they were improbable; on the other, he know that a considerable sum of money, in Bushish and Ressian of the little colony, and this, although valuelous now, would be worth as much as ever if the proper

there wight come a time when for corre articles he should be able to transact some lacentive busi-

As already stated in the message brought by the April was 29,000,000 learnes, and at the end of the A diagram representing the elliptical orbit of the planet, assumptional by an enhancels made out in unequal length, representing respectively the dis-

Gallian year, the twelve farmer divisions according to Kepler's low, gradually diminishing in leastly an increasing as they regred the perihelics. It was on the 12th of May that Rosette exhibited

Jupiter, lay clearly defined before their even the progress along the arbit and the sales distances hecould look piniter, and if the professor's colosianot, if they would, express the semblance of a doubt). Gallia would accornigh her revolution in precisely two years, and would meet the earth, sloted two aroual revolutions, in the very same spot as before. What would be the consequences of a Without lifting his eye from the diagram, which he was still carefully scrutinizing, Servidec said, "I see that dering the month of May, Gollia will only travel 30,400,000 lengues, and that this will leave her sheat 149,060,000 leagues distant from

the sun," "Just so," replied the professor "Then we have already passed the zone of the

testily. "If you will look you will see the zone marked ofcarly crough open the may," tirated his own remarks, "The cornet than I are In to reach its subshire on the 15th of Jacoury, ex-

"A twelvemouth! Not a Gallian twelvementh!" Servular locked brwildered. Lieutenant Process

could not suppress a smile, "What are you laughing at ?" demonded the year

"I want to be legical, that's all,"

"By all meaner of means, my dear professor, let

AMAZING STORIES

"Well, then, listen to me," resumed the professor, stiffer, "I presume you are taking it for granted which Gallia makes one resolution round the sun-

"And that year, like every other year, ought to be

"If I wish it!" emplaimed Bosetta, "Nothing of the north Of course a year must have twelve "Of course," said the centair "And how yeary days will make a mouth?" asked

the professor "I suppose sixty or sixty-two, as the case may be,

The days now are only half as long as they used to be," answered the captain.
"Barvadae, don't be thoughtiess!" cried Resette,

pages. "If the days are only half as long as they were, sixty of them cornot weden up a twelfth mark

"I surrose not," replied the confused coreain, "Do you not see, then," continued the entropmer "that if a Gallian month is twice as lone as a ter-

long as a terrestrial day, there must be a hundred "No doubt you are right, professor," said Count

troubleaton !

"Not at all! not at all! I do not bright to me are other," was the professor's blaff renly After numbering for a few moments, the earders spake again. "According to this new estendar, it

ian't the middle of May at all; it must now be some time in March." "Yes," said the professor, "to-day is the 26th of

corresponds with the 153d day of the terrestrial year. You are quite correct, it is the 26th of

"Strange I" muttaged Servadar. "And a month, a terrestrial month, thirty old down, sixty naw days harco, it will be the 86th of "Ha, hal" roared the captain; "this is logic with

The old professor had an undefined consciousness

no more leisure. The visitors accordingly cultted It want he award that the revised calendar was left to the professor's sole use, and the colony was

of dates as the 47th of April or the 118th of May. According to the old calendar, June had now arrived; and by the professor's tables Gallin during distance of 155,000,000 leagues from the sun. The thermanoier continued to fall; the atmosphere re-mained clear as heretofers. The population restine; and almost the only thing that broke the monatomy of existence was an accordingly plain from the binstering, pervous, little professor, when some

troncerical studies for a time, and pay a visit to the common kall. His arrival there was penerally ment. Samehow or other the conversation would "Yes, cortainly, if you wish it," said the centele. ture callising between the cornet and the carth; and in the same degree as this was a matter of friends, it was a motter of aversion to the astronomissl entiredast, who had no desire to cost his

andies fewer induced him to those ande his as-

own discovery. he could hardly have cored for more if it had been of his own creation. The interview would often terminate in a scene of consider-

On the 27th of June (old calendar) the profesone burst blan a consumball toto the control half where they were all assembled, and without a weed of substation or of preface, accounted the liquidescrip

customed to smak to an title school-hor, "New, licutement no evasions! no stuffing! Tell me, have The Hartsmant draw bireast on atitle. "Then-

alonal shufflings! I am not accustomed, efe-" he began in a ferre exidencing on little recentment - but and simply said, "We have." "And may I ask," continued the professor, quite

"As armenetentaly as I could" recited the Hers-

tenant: "I did what I could be los and compass. I "At what result did you arrive? What is the

"I estimate the total circumference of the equator to be about 1,400 miles." "Ak!" said the professor, more than half speak-

trer to himself, "a circumference of 1460 relies would give a diameter of about 650 miles. That would be approximately about one-sixteenth of the

Ralsing his voice, he continued, "Gentlemen, in order to complete my account of my comet Gallia, I regains to know its area, its mass, its volume, its

"Rimas we know the diameter." remorked the lieutenant, "there can be no difficulty in finding its

surface and its volume." "And did I say there was any difficulty?" asked the professor, fleroely. "I have been able to reckon

that over since I was born. "Cock-a-decdle-doo?" cried Ben Zoof, delighted at

The professor leoked at him, but did not sunch, safe a word. Addressing the captain, he said, "Now, Servedse, take your paper and a pen, and find me the surface of Gallin."

With more submission than when he was a school-boy, the captain out down and endeavoyed to

recall the proper formula. "The surface of a sphere? Multiply circumferexce by discorter."

by this time. "Circursference, 1,400; diameter, 450; area of corface 630,000," read the contain "True," replied Resette, "810,000 square miles;

inst 292 times less than that of the carth "Pretty little comet! aves little comet!" muttered The extrememer hit his lin, smorted, and east at

"Naw Cartain Servadae," sold the professor "take year pen again, and find me the volume of

"Quick, mick?" eried the professor, impatter

"arrely you have not forgotten how to find the "A moment's breathing time, please," "Breathing time, indeed! A mathematician should not wort breathing time! Come, multiply

Captain Servaday applied homself to his task while the involunders waited, with some difficulty suppressing their inclination to laugh. There was a

cubic miles.

"Just about one foodbansurdth that of the "Nice little count! westy little comet!" said The renfessor sensited at him, and was much

alone of his cornet pointed out in so disparantos a manner. Lientenant Procope further remarked that from the earth he successed it to be about as con-

would require a good telescope to see it "He, ha!" langued the orderly, aloud: "charming little comet | so pretty; and so modest?" his hand in passion, as if about to strike him Ben Zonf laughed the more, and was on the point of repeating his sattrical comments, when a stern order from the captain made him held his tongue. tive about his cornet so the orderly was about Mont-

been allowed to go on unchecked, it is impossible to eay what series coursed might not have arisen. When Professor Rosette's equanizative had been restored, he said, "Thus rectiones, the distreter, tast there in more to be done. I shall not be eatfor

"A laborious problem," remarked Count Time-

"Laborious or not, it has to be accomplished I am received to find out what my corner weights." "Would it not be of some assistance, if we know of what substance it is command?" calcul the

"That is of so moment at all," replied the profeator: "the problem is independent of it."

You must understand, however," said Resette. 'that there are various profiminary relegibitions to to made: veg will have to wait till they are

"As long as you please," said the count. "No heavy of all," observed the captain, who was not in the least important to continue his weether "Then, postlomen," said the astronomer, "with

your leave we will for this purpose make an appointment a few weeks kupps. What do you say Wethout acciging the general amile which the

TNDER the still dimbrishing influence of the lite, which performed its fortnightly revolutions

Meanwhile, the question beyond all others imcalculations correct, and was there a sound founds doubts or anxieties, they were fain to keen all then

The rest of the community by no means shared in their unsaginess. Negrete and his follow-countrydifference. Happier and better provided for than they had over been in their lives, at did not give carelled out their favorite soups, just as if they Happicst of all were Pable and Nina. Racing through the galleries of the Hye, clambering over

their studies. Captain Servadae, who in commun with the count really liked them both, conserved had developed upon him, and took great care in superletending their deily lessons, which he speoseded in making hardly less pleasant than their

Insulted and loved by all, it was little wonder

of Sardicia. They had now a home in which they "Then an ordinary pair of scales, brung under the influence of attraction, I suppose, would not answer

"Have you no futher or mether?" asked Pable. "No." she answered

"No more have L" said the boy, "I used to run "No more have I," and the boy, "I uses to run alone by the spic of the diligences when I was in "I used to look after gosts at Madalesa," said

kind. I am afraid they will small us, Patro," she added, vmiling

"Oh, no, Nina; you are too good to be spailed and when I am with you you make me good ton.

July had now errived. During the menth Galila's niverse about its orbit would be reduced to 22,000bring 172,000,000 learnes, about four and a half times as great so the system dutares of the earth

from the san, It was traveling new at about the at a rute of 21,000,000 lengues a month, or 23,300

In due time the 62d of April, according to the fulfillment of the prefessor's agrointment, a note was delivered to Servadae to say that he was ready. calculating the mass and density of his comet, an

A point of far ovenier interest to Cantain Servethe nature of the substance of which the couset was composed by they felt pledged to render the nonfenor may aid they could in the researches upon which he had set his heart. Without delay, therefore, they assembled in the central hall, where they were soon folged by Rosetts, who seemed to be in

"Gentlemen," he began, "I propose to-day to enderivor to complete our cherrentisms of the elements of try comet. Three matters of investigation are face; this attractive force we know, by the increase accordly, its mass, that is, the quality of its matter;

and thirdly, its density or quantity of matter in a unit of its volume. We will proceed, gentlemen, if you please, to weigh Gallin," Box Zoof, who had fust entered the ball, caught

word, went out again and was absent for some minutes. When he returned, he said, "If you want to weigh this cornet of yours, I suppose you want a pair of amiles; but I have been to look, and I carnet find a pair anywhere. And what's mere," he added mischiercosty, "you won't get them any-

A frown came over the professor's countenance. Servador saw it, and ware his orderly a sign that "I require rentlemen," resumed Resette, "first of all to know by how reach the weight of a kilogroup here differs from its weight upon the earth;

"And the very kilogram weight you used would have become lighter." put in the count, deferentially, "Pray postheren de set interrent see" and the professor, authoritatively, as if ar cethoded, "I peak no frustruction on these neights" Propose and Timascheff demorely bowed their The preferent manual "Then a system-balance

dependent upon mure tension or flexibility, the attraction will home no furtherne. If I suspend a weight upon it equivalent to the weight of a kilograin, the index will corbiter the revoler wright on the surface of Colline. Thus I shall arrive at the difference I want : the difference between the carthon attraction and the corner's. Will you therefore, have the produces to provide me at once with a spring-

The audience looked at one another, and then at Ben Zoof, who was thoroughly acquainted with all their resources. "We have neither one per the other," said the arderly.

The professor stamped with vaxation. "I believe old Hakkehat has a mrino-balance on board his tarten," said Ben Zoof, presently "Then wire didn't you say so before, you idint?"

Arcticus to pocify him, Servedse assured him instrument, and directed Box Zoof to go to the Jew

"No, stop a moment," he said as Ben Zoof was marine array on his covered "Sections I had better go with you myself; the old Jew may make a diffculty about lending us any of his property." "Why should we not all go?" usked the count. "we should see what kind of a life the meanthrope

The proposal met with general approbation. Beone of the men relight be ordered to cut him a cubic decimeter out of the solid substance of Gallia. "My engineer is the man for that," said the owant; "he will do it well for you if you will give him the are-

"What I you don't mean," exclaimed the professor, again point off into a passion, "that you haven" a proper measure of leaoth?"

Box Soof was sent off to runnack the stores for the article in question, but no measure was forthcoming, "Most likely we shall find one on the tar-

"Then let us lose to time in trying," answered The rest of the party followed, and were seen

in the over air upon the rocks that exchange the shore. They descended to the level of the frozen water and made their way towards the little creek where the Dobruse and the House lay fromby imprisaned in their ley bonds. The temperature was low beyond previous ex-

perience; but well muffled up in fur, they all endured it without much actual authoring. Their breath fossed in vapur, which was at once congealed countless succeeding prisides, were truly Indirects. The Intits professor, seed control of all, peacefuled positing so much as the cub of an Arctic hear. It was explicit o'clocks in the morning. The arm was rapidly apprecading the scentily but its disc, from the extreme remoteracy, was preportionately dwarfed, its heams being all but destitate of their process was the proposed and the second of the control of the process of the control of the process was preportionately more warrents and radiances. The velocate to its

was residily appreciating the aunth; for its discrete from the authors recovered as approprietally from the authors are recovered as a proportionally proper wareth and resistance. The volume is its very commit, and its interrocting region, were still refused by the recovered and the recovered recovered as a resistance of the following the contract of the recovered and the same extent chargest with very that is the next field the same and the recovered and th

teleocope; it was the opening of Falorytin Resettive beterrakery.

Ben and land seemed Minded it to one dreaty withteness, to which the pale bine sky offered courseby any centrest. The observe was inference with the control of the cont

complicated as the figures traced by equatic insects upon the surface of a poal.

Across the querter of a mile level ground that lay between the manutain and the crosk, a series of feotprints, freum hard into the snow, marked the

from Nina's Hive.
On approaching the creek, Lieutenant Process drew his companious' attention to the elevation of the Debryan's and Hanne's susterline, both vessels

the Debryso's and Henra's waterline, both vacuals being new scene fifteen feet above the level of the see.

"What a strange phenomenen?" exclaimed the

espeals.
"It makes me very uneasy," rejoined the lieutenant; "in shallow places line this, as the crust of its thickness it forces courthing morands with in-

ice thickers, it forces everything upwards with irresistible force."
"But surely this process of congelation must have

"But who can say what that limit will be? Remember that we have not yet reached our maximum of codd," replied Procone.

"Indee, I hope not!" eminimed the profusor;
"where would be the use of our trivialing 50,000,
500 issueme from the run. If we are only be as-

perferce the cambe temperature as we should find at the poles of the earth?"

"Fortunably for us, however, professor," said the Hesterast, with a smile, "the temperature of the temperature or provide description of 20° G.

the Besternest, with a smile, "the temperature of the remotest space never descends beyond 70" G below zero,"

"And as long as there is no wind," added Serve-

without a single attack of catarril."
Listitusest Process proceeded to impart to the count his article shout the situation of his yacks, the pointed out that by the constant superposition of new deposits of ice, the vector would be identiced to a great beight, and consequently in the event of a true it would be arroad to a calculate uniform to

mady wasses. There was no time now for concerting measures of-hand to prevent the dinaster, for the other members of the party had already reached the one where the party had already reached the one where of steps, reactly here by Hakishort harmost, given seems for the present to the supreyor, but it was ordered that some different contributes would have to be presented to when the territor about the alevated to be recorded to when the territor about the alevated

A this curl of the embel based from the supper familia this projected shows the man of anny washbad accumulated upon the deck of the Heast. The owner was appring of this first, and it was cut by the sense-endouring layer of the environment of the tartes that residered the saternal temperature endoughts. "HII old Nationalization," where are you?" schooled Bee 2004, at the full streams for this time. At the neuted of his whis, the outsid dece queste, and the Javie hand and desidered methods and all the Javie hand and desidere methoded ones.

CHAPTER V

the dock.

MONEY AT A PREMIUM

HO'S there? I have usthing here for anycus. Go away; " Such was the indeeptiable greeting with whoch lause Hakkoute
received his visitors.

"Hakhabut! do you take us for thiswes?" maked

Servadac, in tenes of stern displanare.

"Oh, your Excellency, my level, I did not know
that it was you," whined the Jew, but without
enterging any farther from his cable.

"Now, ald Hakkahot, come out of your shell!
Come and alow the governor proper respect, when
he gives you the heavy of his company," cried Ben
Zool, who by this time had clambered up on the
deck.
After considerable hesitation, but still knowing

his hold upon the calds-door, the Jew made up his mind to step outside. "What do you want?" he inquired, timorously.
"I want a word with you," and Servales, "but

I do not want to stand talking out here in the celd."

Followed by the rest of the party, he proceeded to manust the stane. The Low trembind from head to

mount the steps. The Jew trendind from beed to feet. "But I cannot let you into my cohin. I me a peer man; I have nothing to give you," he mouned pitcoully.
"Here he is!" imagked Ban Zoof centemptucanty; "he is beginning his obspice of immendations over and. But stording on these will now for."

of the way, eld Habkabat, I and out of the way!"

of the way, eld Habkabat, I and out of the way!"

of the way, eld Habkabat, I and out of the way!

to can sink and operate the coor of the cabin.

C. Servado, however, declined to enter until he had taken the pains to explain to the womer of the attention that he had an intention of laying victori.

taken the pains to explain to the owner of the turing that be had no intention of laying victors, hands upon his property, and that if the time abould ever come that his curpo was in requisition for the common use, he should receive a proper price for his seeds, the same as he would in Europe.

"Europe, indeed!" nuttered the Jew maliciously between his teeth. "European prices will not do for me. I must have Gellian prices—and of my own So laws a postless of the second had been assess

printed to the carry that the space reserved for corner of the compartment stood a small year stoon. other was a treathabound which covered so a hadtwo or three stools and a rickety deal table, torother furniture which was worthy of its recurrietor.

was to throw on the fire a liberal appuly of cools. as splered to such reckless expenditure of his fuel. The periableg temperature of the cabin, however, was sufficient justification for the orderly's conduct. and by a little skillful munipolation be seen aus-

cooled in getting up a tolorable fire. The visitors having taken what agata they could. Hakkubut aband the door and like a reference awalting his sentence, stood with footed hands, ox-"Listen," said Seresdar, "we have come to ask

Properlying that at least half his necessity was to nothing to spare; but Servedec, without heeding his complainings, pant on: "We are not swing to

Hakkabut Inoked keenly into the naptain's face "We have only come to know whether you can hand no a suring-belonce."

So far from showing any syreatom of relief, the as if he had been asked for some thousand frames "Yes!" echeed the professor, impatiently: "a

"Haven't yes one?" saled Servadas "To be sure he hast" said Ben Zoof

Old Issac stammered and stattered, but at last confessed that perhaps there might be one amonest "Then, aurely, you will not object to lend it to

"Only for one day," added the reofessee. The Jow stammered again, and began to object The cold, you know, the cold may do injury to the apring; and purhase you are roing to use it to

"Why, old Robraim, do you suppose we are point "Better than that?" cried out the professor.

H-my comet." "Merciful Heaven!" shefeked Isnoo, felaning con-

that the scale was required for no other purpose much lighter everything had become) could not pos-

The Jew still splattered, and moaned, and hesi-"Well, then," said Servadee, "if you do not like to

Issue fairly shricked aloud. "God of Israell" he decrive me of one of the most indimensible of my The orderly wondered how his marter could refrein from stranging the old miser upon the anot: but Servades, rather armsed they otherwise de-

Hakkabut. I see that you are not dunceed either to land or to sell were believe. What do were one to The Jew's even twickled with a satisfaction that he was mable to conteal. "But what accounty would you give? "He instrument to vary valuable:" and

he looked more curning than ever "What is it worth? If it is worth twenty france, I will leave a deposit of a burdend. Will that satisfie

He shock his head doubtfully. "It is very little: is the only arring belance in all this new world of curs; it is worth more, much more. If I take your deposit it must be in gold-all gold. But how much

"You shall have twenty france," said Servador. "Ob, it is dart cherp; but never mind, for one The old man folded his hands in meek resignation. "The fellow knows how to make a good haronis."

look around, wort out of the cabin. "Detectable oil westeh!" revited the rount, full

Hardly a mirrate classed before the Jew was back again, carrying his precious instrument with ontentations care. It was of an ordinary kind. A spring halance, fitted with a book, held the article to be weighed; a pointer, revolving on a dist, indicoted the wright of the article. Professor Rosette was manifestly right in asserting that such a machine would register results onits independently of it would have registered a kilogram as a kilogram;

here it recorded a different value altoryther, as the result of the situred force of gravity. Gald coinges to the worth of one bundred and clutched at the maney with namistakable corer-

of Bex Zeef, and the visitors prepared to quit the All at area it correspot to the preferent that the halance would be absolutely uncleas to him, unless ho

ment of the soil of the soil of Gallis, which he proposed to weigh. "Betrething mure you must lend

"I must have a measure, and I must have a "I have neither of them," saswored Isaas, "I

have neither. I am sorry; I am very seery." And this time the old Jew spoke the truth. He would

Back again, down the ladder, accombled the little professor, and before the Jew was aware of his

"Money!" gasped Hakkabut; "I have no money." He was role with fright, and hardly knew what he "Falsehood!" reared Rosette, "Do you think I

"Heavy of money! French money! Five-france The capture and his friends, who had returned

to the cable leaded on with minuted arrangement and

"Thay one mine!" shricked Hakkabut, "No but I want!" nereleted the professor again. "My hear professor," he said smiling, "allow me to

"Ah, your Excellency," mounted the arithted Jew. Phone of that Heldwhat Hald was trague."

And turning to Resetts, the captain said, "If, sir, I

"Two kundred franca!" whined Hakkabut. "Silvers!" cried the exptain.

"I must have more than that," the professor rontiaged. "I want ten two-franc pieces, and teemty

"Let me see," said Servadee, 'how much is that

he security to the Jew for this last to the pro-"Lean!" cried the Jew. "do you mean only a

"fillenge!" again shouted the captain.

"No paper, no paper!" exclaimed Issue, "Paper

"About as much as affect," coolly retorted the "I am a poor man," hogan the Jew. "Now, Hakkabert, stop these miserable lamenta-

Isane beens to yell with all his might: "Thioves!

In a moment Ben Zeof's hand was clasped tightly

When the old Jaw had amon recovered himself, Nothing could appreciate the Jew's service to make another good bargain. He began: "Mouse is

"No more of this?" shouted Servadae. "What in-

The orant had no potiones to allow him to finish what he was about to say. He fleng down nebs to luvered the value of his cash. He was weblier some

The reaferner necketed his French cairs with a astisfaction for many derronstrative, "Gordeners,"

CHAPTER VII

QUARTER of an hour later, the visitors to A the Heese had rea-hall of Nina's Hive. the Heren had respectfuled in the common "Now, gentlemen, we can proceed," said the pro-"May I recount that this table may be

cleared 1" Bey Zaef removed the various articles that were lying on the table, and the coins which had just

been horrowed from the Jew were placed upon it in three piles, according to their value The professor commenced, "Since none of you contingon, at the time of the shock, took the procaption to save either a mater measure or a knogreen weight from the earth, and since both these

we are encaged. I have been obliged to device means of my own to replace them," This exordium delivered, he peased and reemed to watch its effect upon his systlence. But they were

toe well acquainted with the professor's temper to Implied reproach, "I know taken paint," he continued, "to satisfy

isdeed, they are simost now. They have been reveise length of a terrestrial meter." Ren Zoof looked on in perplexity, regarding the

mair

the other coirs, whether gold silver, or corner, are multiples or measures; they know too that the caliber or diameter of each piece of money in rigorously determined by low, and that the diametern of the allver coins representing five france, two france, and fifty centimes measure thirty-asyon. had convived the plan of planing such a number of

The measurement thus obtained was made by S.t. inches lang. A red was then cut of this exact

who was directed to cut out of the solid rock the cable decimates resulted by the preference The next butiness was to obtain the precise weight of a kilogram. This was by no resons a difficold reatter. Not only the dispersions but also the resights, of the French coins are rigidly determined by law, and so the ellow flys, franc places always weigh exactly twenty-five grams, the united weight

"Oh!" oried Ben Zoof: "to be able to do all this. I see you wout he rich as wall so learned? With a good-patured laugh at the orderly's remark, the meeting adjourned for a few hours. By

task, and with all due care had prepared a cubic "Now, gentlemen," said Professor Rosette, "we

now arrive at Gallia's attraction, density, and TIASE."

Everyone gave him complete attention.
"Refore I proceed," be resumed, "I must recall to your relads Newton's reneral law, 'that the attraction of two bodies is directly preportional to the product of their masses, and inversely propertional to the square of their distances."

"Yes," sald Servades; "we remember that." "Well, then," continued the professor, "keep it in mind for a few menutes now. Look here! In this har own forty five-frame pleass-altogether they unigh exactly a kilogram; by which I mean if we ware on the carth, and if I were to hang the hag on would register one kilogram. This is clear enough,

As he spoke the professor designedly kept his eves fixed such Ban Zood. He was avowedly folsluded that he must have accreeded with all the

fled the selection of the orderly for this smedial at-Satisfied with his scrutiny of Ben Zoof's face, the

professor went on, "And now, gentlemen, we have to see what these coins weigh here upon Gallia." He suspended the money hag to the book; the needle confinted and standed. "Deed it affile be-The modelst moristanul was one hundred and

"There, sentlemen, one bundred and thirtythree grame! Less than con-neventh of a kilogram! You see, organized that the force of

But let ue go and compute the mass."

"No. captain, the density first," said Boasto. "Certainly," said the Bestemant; "for as we already know the volume, we can determine the man

eYeo The professor took up the cabe of rock. partlemen, that this block is a cube hown from the voyage of circumravigation, you found Gallia to in company a substance to which your gestories

attairments did not suffice to nation a narro." "Our curiosity will be gratified," said Servedoc. "If you will entighten our perorance."

the interruption "A aphateure it is which no doubt constitutes the ask material of the comet, extending from its surface to its innermost depths. The coulcilling is that

ability; you have found no trace of any other ash. stone. Of this rock here is a solid desireday: lot will unlock the problem of the whole woreht of Gallia. We have demonstrated that the force of attraction here is only one-arrenth of what it is unon the earth, and shall consequently have to

in order to ascertain its proper weight. Do you understand me, goggle-even?" This was addressed to Ben Zoof, who was staving "I thought not; it is of no use waiting for your purely-brains to make it out. I must talk to these

The professor took the cube, and, on attaching it weight was one kilegram and four hundred and

"Here it is, gentlemen; one kilogram, four hundred and thirty grams. Multiply that hy seven; the product is, as nearly as possible, ter kilograms. What, therefore, is our conclusion? Way, that the to a cubic decimeter. Had it not been for this have been one-fifteenth featerd of one-seventh of the

The needsanar could not refeate from arbibition his gratification that, however inferior in volume. in density, at least, his count had the advantage

Nothing further ness remained then to seen's the the many or weight. This was a matter of little

"Let we see," said the captain; "what is the force of gravity upon the various planets?"

The contain could not kelp himself; he was forced "Well then," and the professor, "I prest remind

you. Taking the stiruction of the earth as 1, that on Mercury is 1.15, on Venus 2 is 182, on Mars 4.

"Therefore, if a most upon the surface of the sun were to full dame, he would have considerable diffeonly in setting up agein. A campus hall too, would

only for a few varies" said Lieuternett Processe. "A folly buttle-field for cowards" springed Ben.

"Not so fally, Ben Zoof, on you faxey," said his

Ben Zoof vertured the remark that, as the smallincrease of strength and applicts, he was almost

"Through it sould not have been wery much amalier "Life !" erelaimed Roadto, "Your head in too Held already; a roll of wind would blow it away." "I must take care of my head, then, and held it

Unable to get the last word, the professor was about to retire, when Servadae detained him. "Parmit me to sak you one more question," he

said. "Can you tell me what is the nature of the "Yes, I can answer that. And in this matter I

a substance not unknown upon the curth," And tains 70 per cent, of tellurium, and 30 per cent, of anid "

Servadae uttered an exclamation of surprise. "And the average of the specific gravities of these

"A cornet of gold?" eisculated the captain. "Year a realization of what the illustrious Maupartuis has already deemed probable," replied the

astronomer. "If Gallia, then, should ever become attrobed to the earth, might it not bring about an important revolution in all reprotary affairs?" insuited the

"No doubt about it!" said Rosette, with manifest

"It would make gold about as thesp as dirt, I suppose," said Servadae The last observation, bowever, was entirely lost soon the preferent, who had left the hall with an

"And what, I wonder, is the use of all these big forures?" said Ben Zoof to his master, when next

"That's just the charm of them, my good fellow,"

CHAPTER VIII JUSTING SOMES HAT CLOSE

EXCEPT as to the time the comet would take

to revolve round the sun, it must be confessed that all the professor's calculations had comhe note consequently left pays rough to necessary his studies in solitude. The following day was the fet of August on so-

cording to Resetts, the 63rd of April. In the easures attaining at the end a distance of 197,000,000 leading by the sure. This would have \$1,000,000 arbelies of the 15th of January, after which it

would begin once more to approach the con-But meanwhile, a marvelous world, never before an close within the range of human wister, year reventing itself. No wender that Palmyrin Resetts cut these colm, clear Gallian naghts, when the book of the firmament lay open before him, he could result

The electors are that was becoming an conspicuter, the largest of all the bodies existing within the befrence of seler ettraction. Derica the army

menths that had elaused since its collision with the earth, the count had been continuously conversely. ing the planet, until the distance between them was scarcely more than 61,000,000 leagues, and this would go on diminishing until the 15th of October Under these circumstances, was it perfectly certoin that no danger could accrue? Wan not Gallia when its puthway led it into such close proximity

to this enormous planet, rauning a risk of bound attracted within its influence? Might not that in flamor be altogether disastrons? The professor at revolution, had represented that he had made sill proper allowances for any perturbations that would but what if there were any errors in his calculaturns? what if there should be any elements of disturbance on which he had not recknowill Speculations of this kind become more and more

the danger insurred night be of a fourfuld character: first, that the carnet, being irresistivity attructed, might be drawn on to the very surface of the result of being brought under that attraction, It might be transfermed into a satellite, or even a

sub-estellite, of that mighty world; thirdly, that it might be diverted into a new orbit, which would never be coincident with the collette; or lastly, its course might be so retarded that it would only reach earth. The occurrence of any one of these contincurries would be fatal to their hopes of received

with the globs, from which they had been on strangely savared. To Rosette, who, without family ties which he

had never found leisure or inclination to contract,

had no abselow of desire to return to the earth, it mucht not accord with his yews, but he would be

quite content for Galles to man its mark with rethe milky way. The root of the correspondry, however, ments, and the following mouth was a period of

16th the distance was further reduced to 26,000dimensions, and it almost secreed so if the correct

The more they contomplated the character of this elegatio planet, the more they become impressed their own course. The discreter of Juniter in St. 350 miles, nearly alexys times as great as that of the earth; its volume to 1,587 times, and its mean

350 turco greaters and although the mean density has been approved that the superficien of Justice is liquid), yet its other proportions were large smouth to warrant the approbassion that issuestant dis-"I forget my astronomy, lieutenant," said Servaday. "Tell me all you can about this formidable

neighbor." The hertenent boving refreshed his memory by reference to Flammarion's Résits de l'Infini, of complishes its revolution round the sun in 4,385 days, 14 hours, and 2 mirrates; that it trevels at

on its exis occupies only 9 hours and 55 minutes. "His days, then, are aborter than the sarth's "Considerable" engaged the lightenest, who

went on to describe how the displacement of a point rapid as on the earth, esusing the palar compresnearly perpendicular to the plane of its orbit, caused the days and nights to be nearly of the how the amount of light and best received by the

"And how about these satellites? Sometimes, I suppose. Juniter has the benefit of four moons off

shining at once?" asked Servadae say that one is rather smaller than ope own more; that another moves round its refensive at an intervel about equal to the moon's distance from ourselves; but that they all revolve in considerably less time: the first takes only I day, 18 hours, 27 min-

uton. The most remote revolves round the planet of "They have been enlisted into the service of "It would be a wonderful night," said the contain.

utes; the second takes 3 days, 15 hours, 14 minutes; the third. 7 days. 8 hours, 42 minutes; which the

"Yes," answered Process. "I often think Jupiter is like a productous clock with four houls."

"I only hose that we are not destined to make a fifth hand," answered Servadas. Such was the style of the conversation that was

preserve. Whatever topic might be started, it seemed soon to settle down upon the hore orb that "The more comete that these planets are from the sup," said Precess, "the mere verecable and adsituated 2.746,271,000 miles from the arm, issued

conturies book, Urarus, revolving 1,753,851,003 miles from the center of the planetery system, is of as age amounting to many hundred millions of cento non-roo centuries old. Mars has existed for 1-The carth. 41,430,600 miles from the sun, quitted signed the age of 50,000,000 years at least; and the carre of 10.010.000 years... the same time as the

Servadae listened attentively. He was at a fear cital of this novel theory was to the effect that, if it were true, he would prefer being centured by Mercury than by Jupiter, for Mercury, being so much the yourser, would probably prove the less

It was on the lat of Scotember that the course had creased the orbit of Jupoter, and on the lat of Octeber the two bodies were extrained to be at their musissum asperation. No direct shock because. could be apprehended; the demonstration was suf-Sciently complete that the orbit of Gallia did not coincide with that of the planet, the orbit of Jupiter being inclined at any angle of 1" 19" to the orbit of

As the morth of Sentercher mound towards its ciose. Jupiter began to wear an aspect that renet the most indifferent observer. Its salient points the solar rave, reflected from its disc, glowed with a

Who could wonder that Resetts, enthusiast as he was, should be irremovable from his charrestore? Meanwhile, or Juniter over large, the sun grew

From its increased remoteness the diameter of the sun's disc was distinushed to h' 46".

ted with the antifilities! They were visible to the Although it is asknowledged that they are not

codinarily visitie on earth without the aid of a rowers of vicine, born loss alon to identify them distinguish them one from the other as to describe chade; the second was bles; the third was white

and brilliant; the fourth was orange, at times ap-Jupiter likelf was almost void of scintillatases Rosotte, in his absorbing interest for the giowing comparative forgetfulness of the charms of his

fesser could quite allay the general apprahension that same serious collision might be impending. Ties round on There was nothing to instify on probension. The question was continually being "Our friend the professer," said Servader, "is not likely to tell us very much; but we may feel

leas in the dark, if he thought we were not going

"I trout from my very roal," said the count, "that his promostications are correct." "The more I are of him, and the more I listen to

him," replied Servedac, "the more I became con-

Ben Zoof here interrupted the conversation, "I have something on my mind," he said "Something on your mind? Out with 2t!" said

the exptain "That telescope!" said the orderly; "It strikes me pointed up at yeader hig sun is bringing it down

"Laurh, captain, if you like; but I feel disposed to break the old telescope into atoms."

"Rea Zeof." said Survadae, his laughter exchanged for a look of stary displeasure, "truch that

Ben Zoof knew what his master meant, and to

The interval between the comet and Juniter was, by the let of October, reduced to 43,000,000 miles.

ficies, between edge and edge, being intensely bright. The balts themselves were consignable The physiology of beits and spots ables was bein an astronomical congress on the earth, he would

those faward the noise were alternately dark and

his brother counts to may great degree as to the ever rank as one of the most magnificent amongst

the beautiful color As the comet approached the critical maint of its carrier it cannot be deviad that there was an an acknowledged accastiousness of alarm. Mutually recaptain were secretly drawn together by the prosused of a common damper; and as their return to the earth supeared to them to become more and row indiction and fruid to preferate the widor philosophy that arknewledges the credibility of a

But no philosophy could be proof against the their hopes, were set upon their astural home; no tion that once again they were to come in contact

"Only let us compe Jupiter," enid Lieutement Process, repeatedly, "and we are free from "But would not Seturn lie ahead?" asked Serva-

"No!" said Promps; "the orbit of Saturn is reracts, and does not come athwart our nath. Juniter is our sole handrance. Of Jupiter we must say, as William Tell said. Once through the oreinous pass

The 19th of October came, the date of the magnest emprorimotion of the samet to the planet. They were only 31,000,000 miles sport. What would now transmire? Would Gollie, be diverted from its

proper way? or would it hold the course that the Early next morning the captain ventured to take

The professor was in the warst of tempera to sudicate the course which events had taken. The comet was pursuing an unaltered way.

The astronomer, respect to Ma proposationtions

sught to have been the most proud and exetented of

his comet was destined to be so transfest, and that it must insultably once again come into collision with the earth.

and all is well."

AMAZING STORIES charge. Mutual interest and recessity then con-

MARKET PROCES IN GALLIA "A Li right!" sun or professor's ill humer that the danger manager in for a two years' past; "no death we are in for a two years' past; "no weaths more will take us back

168

"And we shall see Montmartre again!" excluteed

To use a posteral expression, they had safely recarded for a single boor, in that hour the earth would have abroady frauded 2,500,600 miles from turnes would starue before such a reducidance would

On the lat of November Gellin and Juntar were weeks to the 18th of January when the cornet would baris to correspond the sun. Though light and their terrestrial intensity, so that a perpetual twilight account to have cettled over Gallia, not the population felt chescud even by the little that was left, and become on he the home that they should to the great hundaury, of which the termerature has been satisfied as not line than 5,050,000

Of the avviety andered during the lost two months Issae Hakkabut had known pathine. Street the day he had done his larky stroke of business on the following day, had returned the steelyard minute's consurration which Ren Zoof had bold with him, he had mentioned that he knew the whole soil usual, said so attention to the remark, and only which Hakkahut persisted in leading. Ben 2006 satoniching how they reconciled themselves to his

The time same however, when various streamstances prompted him to think he must renew his intercourse with the inhabitants of the Hive. Some of his goods were beginning to spoll, and he felt the necessity of turning them into manay, if he searchy of his commodities would secure very high

It happened, just about this same time, that Ben would soon be rusning sheet, and that their stock of coffee, sugar, and tobacco would want replentshon board the House, and he resolved, according to his promise, to apply to the Jew and become a pursalted to dean Hakkelest and the contain touther over the revenued of first solling a vertice of his His recent gaurious transaction had whethed his cargo for all the paper maney they coud give ham; but atill he abould have energy left, and they would want there. You, they should have those, too, for got back again to the earth; hills from his Excellency the governor would be good initial any how there would be the shorter. By the God of

Althorate he did not know it he was unconsisted to follow the practice of the Gouls of old, who ad-

SITE Halvaher healtated to make the first advance, and it was accordingly with much satisfustion that he hadled Cardein Servedge's agreemen on board the Heavy.

"Hakinhat," and the costain, alcowing without some tobacco, and other things. I have come to-day to order them, to settle the price, and to-morrow Ben Zoof shall fetch the goods away." "Maroiful heavens !" the Jew heaven to whime heat

"None of that missrable howling! Roulessa! I am come to buy your goods. I shall pay for them."
"Ah yes, your Excellency," whispered the Jew. impose on ma. I am poor; I am nearly rulned already."

"Coops were west-had addring?" origin Serundan "I have told you core, I shall pay for all I hav." "Ready money?" asked Hakkulout "Yea, rendy money. What makes you ask?" said

the captain, carlogs to bear what the Jew would "Well, you see-you see, your Excellency," atammered out the Jew. "to give gredit to one wealful". As unless I more cradit to another. You are solvent -I mean boxorable, and his lardship the count is honorable; but maybe-maybe" "Well?" said Servador, walting, but inclined to

kick the old reseal out of his sight. "I shouldn't like to give credit," he repeated, "I have not solved for eredly. I have told you. "Very good, your Excellency. But how will you

"Far yout Why, we shall pay you in pold and silver and copper, while our money lasts, and when

"Oh, no paper, no paper!" grouned out the Jew.

"No poper I" relterated Hekkalut "Why not? Surely you can trust the hanks of England, France, and Bussis."

"Ah no! I must have cold. Nothing so safe so gold." "Well then," said the captain, not wanting to love his temper, "you shall have it your own way; we inve plenty of gold for the present. We will know area brocktened, and Servadae, repeating that he should come again the next fay, was about to guit

"One moment, your Excellency," said Hakkabut, sidling up with a hypocritical smile; "I suppose I

"You will of orurse, charge ordinary pricasproper market prices; European prices, I mean."
"Merciful honorana" shrieled the old man, "you rob me of my rights; you defraud me of my

privilege. The manupoly of the market belongs to me. It is the eastom; it is my right; it is my pristhers to fix my own prices."

Servidee made him understand that he had no "Marriful beautype?" are he haved the Jess. "It

is sheer ruin. The time of monepoly is the time for profit; it is the time for production." "The very thong, Hakkalest, that I am anytons to seem to forget our rights; you are forgetting that, if I piesae, I can conficuate all your eargo for the

earremon use. You ought to think yourself locky in potting any price at all. Re contented with Rura-All the rest of the day the Jew was mustering

him down to a maximum price for his seeds, tast he would be even with them yet; he would have it all out of them; be would make European prices nay, after all. He had a play, he knew hear; and he True to his word, the captain next morning arplyed at the tartax. He was accommerced by Bur Zoof and two Russian sailers. "Good-recessing ald ly business with you, you know," was Ben Zoof's

"What do you want to-day?" asked the Jaw. "To-day we want coffee, and we want sugar, and we want tolseco. We must have ten kilograms of

each. Take care they are all road; all first rate. I am commissariat officer, and I am passwrathle " "I thought you were the governor's aide-de-"So I am, on state occasions; but to-day, I tell you. I am superintendent of the commissariet de-

Haldahut bereupen descended into the hold of the testag, and soon returned, carrying ten periods ly fastened by strips of paper, labeled with the

"Ten killograms of tobseco at twelve france a

Ben Zoof was on the point of laying down that money, when Servador stopped him "Let us just see whether the weight is correct." Hakkabut pointed out that the weight was duly registered on every pecket, and that the reckets had

The index required only 130 orange "You see. Hakkabut, I was right. I was norfeetly fustified is having your goods not to the "But-hut, your Excellency-" stammered out the bewildered man.

"You will, of course, make up the defeloner," the captain continued, not noticing the interreption.

never been unfastened. The captain, however, had

"Oh, my ford, let me say---- began laung again. "Come, come, cid Cnisphas, do you hear? You are to make up the deficiency," exclaimed Bon Zoof.

"Ah, yes, yes; test----The unfortunate Isrnollie tried hard to speak, but his actuation prevented him. He understood well

he had not a pair of common scales on board. "Come, I aux, old Jededich, van are a long while making up what's short," said Ben Zoof, while the Jaw was still stampering on, As soon as he recovered his nearer of articulation. lease began to pror out a modler of lamentations and petitions for morey. The captain was inspor-

able, "Very screy, you know, Heltkabut. It is not roy fault that the packet is short weight; but I

"A bargain is a bargain," said Serunder. most complete your contract." And, mosning and grouning, the miserable man

by his own scale. He had to repest the process with the super and online; for every kilogram be had to weigh seven. Ben Zoof and the Rossians "I say, old Mordeesi, wouldn't you rather gi your goods away, than sell them at this rate?

would." "I say, old Pilate, a monopoly isn't always a good thing, is it?"

"I say, old Sepharvaim, what a flourishing trade Meanwhile neventy kilograms of each of the

erticise required were weighed, and the Jew for such seventy had to take the price of ten. All along Captain Serendan had been setting only But the foke at an and he took care that the Jow was properly paid all his legitimate due.

CHAPTER X ESB INTO SPACE

MONTH passed away, "Gallia continued its so far removed from the ordinary inflarmed After all, they were but making a varage-a calculations mere correct—and why should they be darkte(2-there little mone) was destined after a two years' absence, once more to return "to part." but with the good prospect before them of ones comfortable as they could in their present quarters.

contain, the count, nor the Houtenant felt under any of winter, in the cultivation or the preservation of their correctional recourses. Nevertheless than they would have been driven to adopt, if they had

Even after the turning-noist in their sarger, then retransport themselves and all their saimals to the shores of Gourbi Island, where they would have to communes their agricultural labors to secure the four recetts or theresbouts, they would had the been accomplished then they mould be compelled annin, like a swarm of been, to retire to their semitree tailyte existence in the cells of Nine's Hive.

Now and then the captain and his francis found having to spend another winter upon Gallia, some expedition possibly result in the discovery of a vein turned to account in warming some erection which they reight home to put up? A prolonged existence in their underground quarters was felt to be monetonous and depressing, and although it reight be all very well for a man like Professor Resette, shorted in astronomical studies, it was if suited

One contingency there was, sirred too terrible to be taken tota account. Was it not tashe expected that the time might come when the internal free of Gollie would hose their activity, and the stream of lava would consequently cease to flow? Why should Gallia be exempt from the deather that seemed to await every other heavenly body? Why should it not roll onwards, like the moon, a durk cold

In the event of such a constition of the volcanic equation, whilet the cornet was still at us great a distance from the san, they would indeed be at a loss zero. Harrolly, however, there was at present no

some 11,000,000 or 12,000,000 lengues derrug the much Another smrld was now becoming a cunnotte, after reiniging in an approach peacer to Inviter than one other mortal man had save atapportunity of contemplating the planet Satura. Not be less than 415,000,000 miles; but even this distonce, although too great to affect the cornel's propsiderably observe than what had over concreted To get any information shout the planet from Resette appeared quite impossible. Although squalls by night and by day he never seemed to quit his

volcane cartinged its results and unthrough dis-

On the 15th of December Gallie was 976 con 600

to impart the results of his observations. It was only from the few astronomical works that hap-Ren Zaof, when he was made aware that the earth would be invisible to the naked one from the

surface of Satura, declared that he then, for his should remain in sight, and it was his great convertahed from his gross, At this date Setors was revolving at a distance

of 420,000,000 miles from Gallia, and consequently 874.440.000 miles from the sun, receiving goly a hundredth part of the light and heat which that luminary bestews upon the earth. On consulting Saturn completes its revolution round the sun in a paried of 29 wors and 107 days, traveling at the rate of more than 21 600 miles on hear along an orbit messgring 5.490 millions of miles in length, Its electroforcars is about 290,000 miles: its superficies, 144,000 millions of square rolles; its valums, 143,846 millions of cubic miles. Satura to 735 times larger than the earth, consequently it is leas than that of water. It revolves on its axis in 10 hours 29 minutes, and its own year consists of inclination of its axis to the pleas of its orbot, are

Although the light received from the oun is comnaratively feeble, the nights upon Saturn must be Right satellites ... Mirror. Receieder.

Tethye, Dines, Rhos, Titan, Hyperico, and Japetus -excampany the planet; Mimas, the nearest to its primary, rotating on its axis in \$2% hours, and Janetus, the most remote, occupies 79 days in its

tions aspecthing in this way-

ring, which has been estimated by Sir William Harnshel as scarcely 100 miles in thickness, result

which the innermost, dark though transparent, is broad; and the outer, of a ducky bue, bung 8,040

Such they rend, is the general outline of this

atrance expendence, which revolves be its own place self diveloped, and which from some unknown cause, has become selidified. If at any time if

Truly, with the constant ristor and settler of the satellites, some with bright disas at their full, by the encircling rings, the aspect of the heavens

from the surface of Saturn must be as impromise The Galliane indeed, were mable to reslike all the marvels of this strange world. After all, they were practically a thousand times further off than the great astronomers were able to approach by

correlain; their little cornet, they knew, was far safer where it was: far better out of the basch of up attraction which, by affecting their path, might The distances of several of the brightest of the fixed stars have been estimated. Amongst others,

millions of millions; the Pole star, 282 millions of miles, a figure represented by no less than fifteen

The hard numerical statement of those encourses figures, bowever, fails altogether to any adequate

"Stronger" they say, "an charryer endered with and infinite length of vision; suppose him stationed on the surface of Camella; looking these towards carry him away further still, to a star so remate that it requires accountling less than rejection conturies for hight to reach it," and he would be a wit-

ness of the birth and death of Christ, carreer bire (fer appen is infinite), and he shall be a spectator of the Creation of the spheres. History is thus sterestyped in space; nothing once accomplished con

Who can nitegether be satepiaked that Palmyria secord, should have been consequent of a longing for

yet wider travel through the aldered proveres now of another, what various systems scient he not stars, fixed and irremovable in name, are all of there in motion, and Gallie might have followed them in

But Gallia had a narrow deatiny. She was not to be allowed to wander away into the rease of atstar clusters, some of which have been entirely, others nartually resalved; nor was she to lose herself amonest the 5,000 nebule which have resisted hitherto the grass of the most powerful reflectors. the selar system, nor to travel out of sight of the . terrestrial sphere. Her orbit was circumscribed to little over 1.500 millions of miles; and in comparison with the infinite space beyond, this was a mere

CHAPTER XI

A FETE DAY THE temperature continued to decrease; the

mercurial thermometer, which freezes at 42" spirit thermometer of the Debryes had been brought into non. This now registered 63" below

In the creek, where the two vessels had been the precuttlenary measure of byrelleg, was going on alowly but irresistibly, and the tarten was upborred fifty feet above the level of the Gallian See while the schooner, as being lighter, had been raised

So irresistible was this gradual process of elevation, so attesty defying all human power to arrest, that the lieuterant began to feel very auxious as to the safety of his yacht. With the exception of the engine and the meets, everything had been cleared out and conveyed to show, but in the scent of a thew it appeared that nothing short of a miracle could prevent the half from being dashed to

miraele coulé prevent the hall from being doubet à publicas, and than all means of having the promontery would be pune. The Henny, of corras, would shar a sinding fract, in thee, it had already haled over to such an extent as to reader it quite dangeven ou to such an extent as to reader it quite dangeven ou to such as extent as to reader it quite dangeven ou to such as extent as all the partie of this life readers that he would sake when he could make the would sake when a could make the would sake the partie of this life readers are to the could be the sake the could be a such as the partie of the sake the could be a such as the partie of the sake the

There was, however, a stronger will than Isaac Hadeshut's. Although 20 cas of all the community cared at all for the safety of the Isaac every much for the security of his cares, and when Servelace found that nothing would induce the old must be abendus his present quarters voluntarily, be

man to hearing and present quarters vocamently, no very seen adopted manaries of convents that were far more effectivel than any supersentations of personal danger.

"Stop where you kie, Hakkatut," said the capitals to him; "but understood that I consider it my duty to make sure that your carps is taken ears of. I the

am going to have it carried across to lead, at eace."

Neither groams, nor tears, nor protestations on
the part of the Jew, were of the slightest avail.

Rothwith on the Divis of Describer the personal of

Forthwith, on the 20th of December, the removal of the groots commenced.

Both Speciaries and Russians were all accorded

well smalled up as they were in furn, they were able to entire the cold with imputinty, making it their special cores to sweld actual contact with any actuals or many actual contact with any actual or many actual contact with any actual contact with any actual contact with any actual contact with a second contact with any actual contact with a second contact with any actual contact with a second contact with a point of their hands, as much as if it had been orithant actual of any listing, and where he alrows orithant actual of any listing, and where he alrows

really felt that his mind had been unburdened from a great anxiety. Captain Servadae gave old Issae full permission to take up his residence amongst the rest of the community, promised him the entire control over his own preserve, and alreadure showed him so under the commence of the control of the control of the con-

omoderation that, but for his unbounded respect for his martor, Hen Zoof would have liked to reget mand him for his contract to a man when he ecardinly despised. Althrough Hablabat slamored must submanable

hand he are delicated enterior of wanteen his suffible and the sum of the sufficient of the suffiing his hand to wome with an sufficient of the depurperty transferred to a ploss of antity, and the sufficient property of the sufficient of the suffisality of the same, then, as he from the further suffible was not been also ancapt the suff-th and been under kins, and very now sufficient his very over that had been under kins, and very now sufficient his very been steady. Here he hired key and slight. He supplied hirect with what little food he required from the van each of providing, a small pill belong to the very sufficient to the sufficient has the sufficient of the very sufficient to the sufficient has the sufficient of the sufficient to the sufficient has the sufficient of the sufficient has the sufficient has sufficient to the sufficient has the sufficient has sufficient to the sufficient has the sufficient has sufficient to the sufficient has sufficient to the sufficient has suffited by the sufficient has sufficient to the sufficient sufficient has sufficient to the sufficient has suffited by the sufficient has sufficient to the sufficient has suffited by the sufficient has sufficient to the sufficient sufficient has sufficient to the sufficient has sufficient sufficient has sufficient to the sufficient has suffi

The lost of January was drawing near, he small versary of the shock which and routled in the servtion of the relation of the same and the same of their fellowenes. Hitherto, and can of them we be stainer. The unverying calmans of the climate, the same and the same and the same and the same and there is possible to the same and the same and

plete.

The lot of January, it is true, was not properly
"New Year's Day" in Gallis, but Captain Servades,
noverthicles, was vary caxious to have it cleared

guited that some numbers should be made from his

as a holder,

"I do not think," be said to Court Timashed and
Liauteans Process, "that we ought to allow our
people to less their interest in the world to which
we are all hoping to return; and how can we censed
the head that ought to unite us, better than is

cabbraing, in common with our follow-eventures upon early, a fay that evokens afresh the kindliest sections of all? Besides, he adde, arrilling, "I expect that Gallia, although invisible just at present to the naked eye, is being detectly watched by the telescopes of our terrestrial friends, and I have as fools that the assumement and circuit in secrets of

both bemispheres are full of accounts detailing the movements of the new comet."

"True," asserted the count, "I can quite imagine that we are occasioning no arrall excitement in all

ys that we are considering no arrad excitement in all the chief observatories."

"Ar, more than that," said the licutement; "own defails in certain to be far more than a more object of meinstife interest or currectly. Why should we added that the absences of a cornet which has once come into collision with the certic have be this time.

to been accurately calculated? What our triend the prefessors has deen here, has been done likewise on the sarth, where, beyond a question, all memors of expedients are being discussed as to the heat way of mutuating the violence of a concursion that must occur."

The listablemath's conjectures were so reasonable that they commanded must. Gallin could reasonable that they commanded must. Gallin could reasonable

the the otherwise than an added of farrer to the lasanimal and the aceth who could by no means be
constain that a second collision would be comparatively as harmions as the first. New to the Galleantively as harmions as they booked forward to the
event, the prospect was not carninod with alarm,
the and they would rejoice in the invention of any disder visis in which if was filled by the inventor of the shock
with the which if was filled by the inventor of the shock

in the contract of the shock of t

sight he deadened.
Christman arrived, and was marked by apropriate
religious observance by everyone in the examulative
with the exception of the Jew, who made a point

of secleding himself more obstinately then ever in the giventy recesses of his retreet.

To Ben Zoof the last week of the year was full up of huntle. The arrangements for the New Year

and some more of perform all the operations of his money. For money, the intransposition in the the root reading and a statistical to be perform all the operations of his money of the wave entirested to him, and he was auditors, in self and the rest of the inhabitants was entirely under the rest of the inhabitants was entirely made in the rest of the inhabitants was entirely made in the region for the great day as attractive confined to because transposition are as smaller.

It was a matter of drints that night whether the preferent broid its invated to join the perety, if was accordy likely that be would eare to come, but, on its whole, it was fet to be activable to such that Al first Captain Servoice thought of young in permitted to the production with the involution; but, remembering industrier young with the involution; but, remembering industrier young Fahle up to the observatory with a format observatory worth a format observatory with a format only requesting the pleasure of Perfessor Scoutter's

distiles to visitors, he sibred his mind, and sant young Pable up to the observatory with a formal note, requesting the pleasure of Prefessor Resettive company at the New Year's 18te. Pable was soon back, bringing no answer except that the professor had told him that "to-day wes

the 125th of June, and that to morrow would be the lot of July."

Consequently, Serwains and the count took it for

vitation.

An hour first surries on New Year's Bay,
An hour first surries on New Year's Bay,
An hour first surries of the New Year's Bay,
and the representative of Italy, an force to a foot such
as of the Rossian code had quite corpused there
and the Rossian code had quite corpused there
were of accordion quality. These of the vintages of
Perzes and Scale were derest in beating their perpenditure work from quality. These of the vintages of
Perzes and Scale were derest in beating their perpenditure work from the vintages of
Perzes and Scale were derest in beating their
Perzes and Scale were derest in beating their
Perzes and Scale were derest to be a second to the
perzes and Scale were derest to be a second to the
perzes and the perzes and the perzes and the respective of
perzes and the perzes and the respective of
the perzes and the perzes and the respective of
the perzes and the perzes and the perzes and the respective of
the perzes and the perzes

have distribed the professor in the effects of his abcervatory.

The defenser over, there still remained three hours of daylight. The sun was approaching the sential but so dies and enfeebled were his days that they were very unlike what had produced the wines of Berchests and Burgandy which they had just here origing, and it was necessary for all, before

signation, to exceed the secondary in the hilberts of signature, and the secondary of the time, and other string and singlest as they went, node that string and singlest as they went, node that we will be secondary to the secondary of the secon

solves, but always full of life and spirit. As fee Ben Zozf, he was bene, then, and verrywhere, his reporturbable peed bemper ensuring also a soulle of welcome whenever he separate the key plain, the These coursing rapidly over the key plain, the whole party had none emessed like like that made the kerimon from the shown. First, the rectle of the territor area on lower to be some suit as but, the

obliged to stop to recover their breath, but, fearful of frost-into, they almost neutrally resurred their exercise, and proceeded nearly as far as Gourld Intant before they thought about retracting their course.

But night was coming on, and the one was also

ready stations in the sats with the regulity to which we relations in the dash way by this time well accustomed. The surset upon this scentroid borross was very remarked. They was not a cloid nor a wayer to stath the first of, an electroid borross upon to stath the first of, an electroid borross unstrace of the first set, as a light of an would reflect the last green my of light; but the radiant cellstate pair of the contraction, the development of scalarged by the contraction, the development

salarged by the effect of refrection, its circumference sharply defined against the sky, sazk shrugity, as though a trap had been opened in the ice for its reception. Before the daylight ended, Captain Servadou had

Hefers the drylight ended, Captain Servados had cautioned the party to sollect themselves bettens into one group. "Unless you are sure of your whereabouts before dark," he said, "you will not find it after. We have some out like a party of skirminices; ht us go back in full force." The sight would be dask; their meen was in on-

junction, and would not be seen; the stars would only give something of that "pole radiance" which the poet Cornellie has described. Immediately after surect the terches were lighted, and the long pories of flames, fauned by

lighted, and the lorg peries of flames, famed by the rapid network of their beavers, had much the appearance of an enermous fary butner. An hear later, the voluces appeared like a dim chelow on the berison, the light from the cretice shedding as level given upon the correction glacon. In time the glaco of the interior, but, reflected in the by mirror, and the later of the contraction of the cretice of the cond shadows precisionally on the nurries of the cond shadows precisionally on the nurries of the

from one. It had no how or more afterward, the Later still, had no how or more afterward. In Later still, had no how you can have an class at hard. All at ores, But Xord uttered a sharied special had not been allowed to the control of the control

death, in the orwelfest of oil shapes, scenacd staring them in the fines—death freen cold! Meanwalls, the last torch had filekered out. It was quite dark. "Forward!" cried Servedae, fronts.

"Forward" cried Servedue, firmly.

At the word of command they advanced to the share; clambered with no little difficulty up the slippery rocks; gained the menth of the gallery; groud their was into the commen hall.

graped their way into the courten hall.

How dreary! how chill it occured!

The flavy entersed no largue special its glowing covering over the manth of the grotto. Licutenant Process located through the aperture. The pool, hitherto kept fluid by its precirity to the laws, was always encested by a lawer of fer.

THE BOWELS OF THE COMPA

HE whole night was spent in apprelating with tirele expect to the outer air, was ramidy falling. body of a dyong man, that retains audile a certain have become cold and dead. In the more faturier and thither Servodae and his compenious were plad

Here they found the envisore who startled be the audien cold, had been fain to reals a necelpitate the opportunity to demand of the cuthusuast whether upon his little comet. It is very likely that he would have declared himself ready to not up with any

Next morning, Servedge thus addressed his nomic. "My friends, except from cold, we have nothing to fear. Our provisions are ample-more than ensuch for the remaining period of our sojours in roady cooked: we shall be able to discerns with all but that the warmth we require is resident in the the depth of those howels we must penetrate; there we shall obtain the warmth which is indimensable

His tone, onlie as much as his words, restored confidence to many of his people, who were already yeaking to a feeling of dospair. The count and the "Nere," said the captain, "you will not be afraid to go down to the lower depths of the magnitude.

"Not if Pablo goes," replied the child "Oh yes, of course, Pahlo will go. You are not afraid to go, are you Patio?" he said, addressing

"Arreshors with you your Englisher," was the And certain it was that no time sout he lost is

of the mountain-side; they were far too stoop and Lighterest Process accordingly undertook the

task of exploring all the galleries, and was soon be a conductor of best. Only succeed in marring neutenant did not doubt that his way would be

Under the lieutement's direction the Ressian sail-

depths of the mountain, our little colony is "That amonth to you like marrialt" amymered Servadae, amilitar, "What has become of the faith

The court shook his head, as if it demair, and stretched to help seems now to be withdrawn."

all extinct. All is not over yet. It is inc over to give up; never despair!" Lisutenant Process outs concurred with the esptain. Many causes, he knew, besides the interruption of the infinence of the oxygen upon the particular anot, and he considered it more than

other part of the surface, and that the cruptive matter bud heen diverted into the new channel. But at present his business was to proceente his labora so that a retreat much! be immediately effected from Restless and agitated, Professor Resetts, if he

no share in them. He had to ought his telescope

rock, so the sailors cleared there away with their

harly, but coomed to slide along, from which he in-

had therefore reason to hope that a descent would "Those who are chilly are welcome to re as work lower as they like. For my part, I shall be quite warm smooth here." Larger and larger grew the origins; at length it

torch, unshed humself through it, followed by the Neutonant and Servadae, Proporties contentare that the sides slanted at the aprin of about four of recent origin, dating probably only from the shock which had invested Gallia with a proportion of the atmosphere of the earth, and beneath the cooling of ashes with which they were sewered.

"Rather a load stair-case!" said Buz Zoof, so they

In about half an hour, presenting in a southerby covatians that at first eight had all the armearance of collected but he waving his torch. Hen Verel regid always ere their extreme limits, and it was colleged that the lower strate of the manufale did

rendered the Hive above to commediate a residence. satisfied with such accommodation as they could out provided it was worm. Centaly Serveder was only too glad to find that his booes about the termerature were to a certain extent realized. The lower they went, the greater was the demisution in the collivery, that was the object of exploration, and become extinct. Although the lave, from some unbrown cause had consel to rise in the crater, yet stata and was still transmitting considerable heat

Livetanget Procope had brought in his hand a mercurial thermometer, and Servadae carried an approid becometer, by means of which he could esti-

"Rix degrees?" said Servadee; "that will not suit ne. At this low temperature we could not survive the winter. We must try desper down. I only hope

There was, however, nothing to fear on the secre ioto the enerture renetrated exervebers, and made

The descript was continued for about souther three hundred feet, which brought the explorers to quarters. Here the thermometer registered 12' C. above zero-a temperature which, if only it were

that indicated that they were at no great distance "Quite near enough for me?" exclaimed Ben Zoof.

After throater the shows of terrbilish to all directions, the explorers seated theresoless on a juttion well, and borns to debute whether if was protticable for the colony to reake an abode in those hower doubts of the recordsin. The prospect, it true, widened out into a cavery sufficiently large. were a few lodges in the rock that would serve as recontroles for provisions; but, with the execution must be their disjan-room, drawing-room, and dor-

a warren, they were reduced to the catatrons of males, with the difference that they could not film The sayora, however, was onlin canalon of being stores were several barrels of oil and a considerable quantity of spirits of wine, which might be burned when required for cooking purposes. Morroyer, it would be nearestary for them to confine there. arises entirely to the sectures of their glooms residence; well wranted up, there would be nothing to present them welver occasional exponeions both to the Hive and to the sea-share. A sumply of fresh water mould be constantly reasoned; les for the coast, and it would be necessary to arrange that courses in term should perform this office on the would be no singeure to clumber up the sides of the

rester for 900 fast, and descend the same distance But the emergency was great, and it was accordwith take up its cuszters in the cave. After all, thus thousands who annually winter in Arctic regions.

ments of the Hudson's Bay Commany, such incuries thought of; one large agartment, wall heated and vestilated, with as few carpers as possible, is considered for more healthy; and on board ship the entire bold, and in forts a single floor, is approprinted to this promone. The recoffeetien of this fact served to reconsile them, in a great degree, to the

Having remounted the ascent, they made the result of their exploration known to the most of the community, who received the tidings with a sense of rolled, and confially accurded the scheme of the

The first sten was to clear the eavern of the accomplation of salas, and then the labor of removal frozen to death if they remained where they warn, permanent, was all they wanted. There was no adcourselos. Reds furniture, ecolcing utenulls-first the stores of the Dobryse, then the cargo of the tartun-all were carried down with the creatout absertly, and the diminished weight combined with the downhill route to make the labor proceed with lourehible braidness.

Although Professor Resetts yielded to the pressure of circumstances, and allowed humself to be conducted to the lower regions, rothing would in-

sure of circumstances, and allowed himself to be conducted to the lower regions, publing would indice him to allow his telescape to be carried underground; and no it was understalled that it would certainly be of no service door down in the howels of the mountain, it was allowed to remain undisturbed

and more and the control of the cont

Few was permitted to koop a watch as vigitant as he photosel.

By the 10th the removal was accomplished. Resear, at all events, from the experies to a purious case, at all events, from the experies to a purious installed in the new home. The large cave was lighted by the Dobyser's large, while several hateras, competiod at intervals along the acclusing that had to their descriptions are given a factor of the control of the

with any of the graphic descriptions of the "Arshian Nights' Entertainments."

"How do you like this, Niva!" said Ben Zoof.

"How do you mae ad he shild. "We are only living in the cellure instead of upon the ground stoor."
"We will try and make curredve comfortable."

raid the orderly,
"Oh yea, we will be happy here," rejained the
child; "it is nice and warm."
Although they were an eareful as they could to
conceed their ming(ving, from the rest, Streadie
and his two friends covid not regard their present
situation without distruct, When alone, they would

frequently ask each other what would became of there all, if the whench best about Feetly is allowed. Here all, if the whench best about Feetly is allowed. Feetly, or if some unexpected perturbation should be relieve to the correct and compal does to an individually prelenged real-time in their grieve about 10 march 10 march

Would not the law-emplore exhaused from the metisch violana be there hat per preserves?

"Scen up your spirits, my friends," and Bermant, date, ""on here plenty of time before us as greated, that the body of the there is a spirit of the ways of econes will open. Nover despair!"

""""," and the count, "It is an old surjust that Necessality is the mother of brevellow," Besides, I. Necessality is the mother of brevellow," Besides, I.

should think it very unlikely that the internal heat will fail us now before the summer."

The heutenest declared that he entertained the same hope. As the reason for his opinion he alleged probably of quite recent origin, because the comet hafore its collision with the earth had possessed no atmosphere, and that consequently in oxygen could have preservated to its interior. "Most likely you are right," regular the county

"and so far from dreading a fathine of the internal bast, I am not quite sure that we may not be an posed to a more berrible colourly still?"
"What?" saled Servates.

"What!" saked Servidae.
"The colonity of the cruption breaking out saddenly again, and taking us by surprise."

"The columny of the cruption breaking out saddealy again, and taking us by surgrate."
"Heavens!" cried the captain, "we will not think of that,"
"The authorist may harpen again," and the Bro-"The authorist may harpen again," and the Bro-

tenant, calmiy; "but it will be our fault, our back of vigiliance, if we are taken by surprise." And so the conversation dropped. The 12th of Japuny dawned; and the court was

220,030,000 leagues from the sun. Gellia had reached its aphelion.

CHAPTER XIII DREADY MONTHS

TENDEROKITH, thus, with a webodity over the ground of the content of the content

compiled to have resource to a zirosam of lose for their supply of hand, they, no doub, it has habentheir supply of hand, they, no doub, it has habentheir supply of hand in the control of the contage and the control of the control of their supply of the control of the control of their haps, it centerfures it, and for non-three supply happy. Objects would have had below more than sufficient for solving the most abstrace surface of the control of the con

in a monthly to their posit.

in a monthly to their posit.

in the second of the secon

across that unabeltered expanse of ice could scarceby full to result in the loss of some of their party.

or intrusion.

was found necessary to straighter almost all the domestic annuals before the removal of the connuality from Nistr's Hive. To have stabled them all in the cavern below would have been egitte impossible, which to have set them in the upper gallerner would only have been to abundon them to a creat death; and since must could be preserved for

humane.

Naturally the captain and Ben Zeed were most arxives that their favorite herses should be saved, and accordingly by dint of the greatest care, all difficulties in the way were convenue, and Zenber and

and noncompany by one or the greatest enirg an entranged families in the way were overcome, and Zephyr and Galette were conducted down the crater, where they were installed in a large hole and provided with foreign, which was still abundant.

Birds, substitute out on screen throws, out to

them field not cross to follow the population in its mirrorization, and no numerous did they become that miximizes of them had reproducily be be described miximized them had reproduced by the term of the way to ever buttons, and coupried on trush time that the said of annuary arrived before they could be add to be fairly with A., and thus beyon a life of diversy below the said of the said of the said of the said of the said below the said of the said of the said of the said below the said of the said of the said of the said below the said of the said of the said of the said with Serradia, but be sound, and the literation shift did with Serradia, but so such as of the literature of the wind of the said of the said of the said of the said with Serradia, but the said of the said of the said with Serradia, but the said of the said of the said with Serradia, but the said of the said of the said with Serradia, but the said of the said of the said with Serradia, but the said of the said of the said with Serradia, but the said of the said of the said of the wind of the said of the said of the said of the said of the wind of the said of

from the obmanizary manuals of science, or from the bookes of advantages to see which their library suppolied and Russiane and Speakorfe, day after day, might be seen gathered round the large table, often of their best attention in furnituries which should send their attention their fraction which should send that their states of their states are improved than they should be the result of their states of their states of Satisfa and morans, Hakekabet could never be induced to be present at these social gatherings. He was far too much occupied in his own appropriated course, effects in coming his economie, or in counts,

ing the more. Adoption, with what is had before, in a first more. Adoption, with what is had before both of which was in eating goal; his was deling could give bin may outstriction with he knew that the opdered was the same of the same of the same of the same delinest the same of the same of the same of the secondard, see executing a proper interest. Returned to secondard, see executing a proper interest. Returned to the same of the was for to observing or him to engine state of the was for to observing for him to engine state of the was for the observing for him to engine state of the was for the observing for him to engine state of the was for the observing for him to engine state of the was for the observed that the same of the same of souther hands with examined the same of souther the himself with equal arefer to the markets of the proported to smooth to make the same disting of proprietaring,

able that he should make several actual observations

professor brought his complaint to Capitals Sevinadee, and begged him to askip into a chamber, no matter how small, for which he should be free to carry on his task in subcree and without midestation. So readily did Servades premise to do encything in the power to previole has with the accommodation for which he asked, that the professor was up into such a munifest proof temper that the capitals ventured a munifest proof temper that the capitals ventured

would persevere in the use of his telescope till he was all but caralyzed. But what he felt more than

to speak upon the matter that was even upperment in his mind.

"I do not mean," he began timidly, "to cast the local huptain of linearmay upon any dear poculations, but would you allow me, my dear pofinance, but suggest that you should revise your estimates of the duration of Gallin's period of revolution. It is so important, you know, so all important; the

assistant; my calculations want no revision. I never make an error. I have made my recitating as far as Gallia is concerned. I am now making a like estimate of the shemaths of Nerhes."

Conscision how impellite it would be to press this matter further, the capitals essentially remarked that

Nurina had been calculated long since by astronomers on the surfi. If was about as unlarky a speech g as he could possibly have made. The prof. lore giand d at him forcely.

"Astronoming, sir?" he exclaimed. "Yes! Norine was a planet than; overything that appertained to

was a plinat than; overthing that appetation to the planet was determined; but Norina to a meen one. And do you not think, sir, that we have a diright to know as much about our meen so those terrestrich"—and he curied his lip so he spoke with a contemplatura surphash—"know of theirs".

"Well then, never mind," replied the professor, quickly appeased; "only will you have the goodness to get me a proper place for study?"

"I wil, as I premised, do all I can," answered Serwides.
"Very good," said the professor. "No immediate hurry; an hour hence will do."
But in spite of this condescenden on the part of the man of science, some hours had to also before

any place of retreat could be discovered likely to rail his requirements; but at length a little nock was found in the side of the covern just large corough to bold an armschule and a table, and in this the artraucurer was soon ensemmed to his satire satisfaction.

Euried thus, nearly 900 feet below ground, the Galliam capit to have had unbounded meetal energy to familia an adequate reaction to the depressing monotony of their existency, but many days would often elsew without any one of them secondary to probable that no one would ever have made an ef-A fare excursions were made to the downward direction. The three leaders, with Ben Zoof, made

their way to the lower depths of the crater, not with true enough that it contained thirty per cent. of gold, it was no valualess to them as grantts-but terranean fire still retained its activity. Satisfied upon this point, they came to the conclusion that smot had cartainly broken out in another ress that it was little wonder that no notice was

taken of the lapse of time. The people seemed rather to venetate than to live, and their want of vigor hecarried times almost plarming. The readings around bates, surtained by few, became atterfy wanting in animation. The Spaniards could hardly be roused to more enduring temperament, did not give way to the and the Inuterant all knew well snough that St was the want of air and exercise that was the cause of were entirely in vain. In fact, they themselves ocensocially fell a proy to the same lassitude both of bedy and mind. Long fits of drowshoon, combined with an utter aversion to feed, would come over become degenerate, and that, like tertoises, they more bravely than any of them. Filting about, coxing one to est, another to drink, rousing Puble as the child became the life of the party. Her merry

bright present strely. The months glided on ; how. At the beginning of June the general torper appeared slightly to relax its held upon its victime. This partial revival was probably due to the stonewhat increased influence of the oun, still far, far monthly appropresents of the const's progress, and be ween able now, without reference to the profusion,

entered the zene of the telescopic planets.

Gradually, but uninterruptedly, life and suirita

disturb the order of the universe. That belongs to a CHAPTER XIV THE PROPESSOR PERFUSCIO NOTHER month passed away, and it was now September, but it was still impossible to leave the orbit of Jupiter, but was still at the enceroous

the warmth of the subterranten retreat for the to death in their calls. It was altogether quite as much a matter of congratulation as of regret that

their ordinary physical and meetal energies. Ben vigor. like a stant refreshed from his slumbers. The One day an excursion was made to the shore. It was still bitterly cold, but the atmosphere had been

nothing of its former stillness, and not a cloud was were all as distinct as on the day in which they had where any change was apparent was in the little ervals. Here the elevation of the ice had gone on inunlifted to a height of 150 feet, not only rendering Isaac Hakkubut, immevable from the personal comparied the nexty, and consequently was in bliss-

"A good thing the old fellow wasn't there to see," ing to himself, "to have a peacock's voice, without its Decine the woodby of July and August, Gallie adword 164,000,000 leagues sions her orbit. At night here full upon the equator, caused an appreciable difference of 20" in the temperature. Like birds, the population spent whole days expected to 30s grateful

This suring-time, if such it may be called, had a most onlywaing influence upon all. Hope and courthe sky, and every evening the earth assumed a distant yet, but the good was chooringly in view. "I con't believe that youder little speek of light portuins my recentain of Mentmurtre," said Ben Zorf, one night, after he had been gazing long and "You will, I hope, some day find out that it does." answered his master. "I hope so," said the orderly, without moving his eye from the distant subore. After muditating a

couldn't make his certal go straight back, could he?" Ben Zoof understood the correction.

the volcano showed no symptoms of resuming its

"A wretched time we have had for the last seven "but what a comfort little Niza has been to us all!"

"Yes, indeed," replied Servadae; "she is a sharming little creature. I hardly know how we should have sot on without her." "What is to become of her when we arrive back at

the earth?" "Not much fear, Ben Zoof, but that she will be

"Ay, voz." sesented the orderly, "You can be ber father, and I can be bur mother."

Servedee laughed, "Then you and I shall be man "We have been as good as that for a long time," observed Ben Zoof, gravely, By the beginning of October, the temperature had so far moderated that it could sourcely be said to be

sur, so that the thermometer rarely suck bayond ceased to the shore, where they resumed their skating exercise, replicing in their recovered freedom

as to the results of the anticipated collision with the earth, and wondering whether any measures

There was no visitor to the Hive more regular than Recette. He had already directed his telescope The revelt of these studies no one ventured to in-

quire; but it became generally noticed that some-

One day, as he was hurrying down to his study, be met Ben Zoof, who, secretly estertaining a feeling of delight at the professor's manifest discounttore, made some causal remark about things not heirer mere straight. The way in which his afrance

was received the sood orderly never divulged, but hereefurered he maretained the firm conviction that there was something very much smiss up in the To Servadue and his friends this continual disemistude and ill-humor on the port of the professor. occasioned no little argiety. From what, they soled could his discuttifaction arise? They could only

Day followed day, and still there was no constition of the professor's discompassre. He was the most miserable of mortals. If really his calculations and his observations were at variance, this, in a man of perpetual perturbation. But he entered into no exing largered and distressed, and when compelled by

reclossings; and if this were so, might there not time, might alf be falsified?

the frost to retire, he would make his way buck to what does it mean? what is she doing? All behind? away at the scanty locks which he could ill afford

179

that there was some irreconcilable discrenancy had actually observed; and yet, if he had been called upon to say, he would have sconer insisted that there error in any of his own calculations. Assuredly, if

But this state of things was before long to come to an end. On the 12th, Ben Zoof, who was harging about outside the great hall of the envers, heard perfect frenzy, in which cestsoy and race seemed

"What, in the name of peace, do you mean?" baseled Ben Zoof, in open-mouthed amovement. "How? What? Where?" roared the bewildered

"Eureka! I say," repeated Resette; "and if you den't understand me, you may go to the devil!" Ben Zouf betook homself to his moster, "Something

rushing about like a madman, screeching and yelling Bureka!" "Forekal" exclaimed Servadac, "That means be hou made a discovery;" and, full of anxiety, he bur-

But, however great was his desire to ascertain yet destined to be gratified. The professor kept muttering in incoherent phrases; "Rescall be shall pay

for it yet. I will be even with him! Cheat! Thrown me out!" But he did not vanchade any reply to From that day Recette, for some reason at presart incomprehensible, suite altered his behavior to

hitherto evinced the greatest repugnance and emterrort. All at once he began to show a remarkable interest in the Jew and his offnirs, paying several visits to the dark little storebouse, making inquirite AMAZING STORIES want?"

frintest of sight.

as to the state of business and expressing come solicitude about the state of the exchenser. The wily Jew was taken somewhat by surprise, but came to an immediate conclusion that the profeator was contemplating horrowing some money; he was consequently very captions in all bis replies.

180

It was not Haldrabut's habit ever to advance a lean except at an extravagent rate of interest, or without demanding for more than an adequate security Court Timeschaff, a Ressian nobisman. was evidently right to him perhaps, for a proper with circumstribed means; did he expect to horrow? leading money to him. Such were the thoughts that made him receive all Rosotto's approaches with a

It was not long, however, hefore Hakkshut was to be called upon to apply his manay to a purpose for which he had not reckoned. In his eagurness to effect sales, he had parted with all the alimentary articles of his cargo without having the precautionary prodence to reserve enough for his own consumption. Amount other things that failed him was his stock of coffee, and so coffee was a beneficing without which he deemed it impossible to exist, he

He nembered the restler over for a long time, and ultimately persuaded himself that, after all, the be had as much right to share as anyone else. Accordingly, he made his way to Ben Zoof, and, in the most amiable tone he could assume, begged as a favor that he would let him have a pound of noffee.

"A young of coffee, old Nathan? I can't say." "Why not? You have some?" said Issac. "Oh yan! plenty bundred kilograms." "Then let me have one pound. I shall be gratefulf

"Hang your gratitude!" "Only one pound! You would not refuse anybody

"That's just the very point, old Samuel; if you were anybody clse, I should know very well what to ec. I must refer the matter to bis Excellency." "Oh, his Excellency will do me furtice,"

"Perhaps you will find his justice rather too much for you," And with this consoling remark, the ce-Rosetta meanwhile had been listening to the conversation, and secretly reprocess that an opportunity

"What's the matter, Master lasse? Have you parted "Ah! yes, indeed," grouned Hakkshut, "and now

hele I cannot live without my coffee." "Vif everse you carnot," agreed the professor "And don't you think the governor ought to let

"Oh, I must have coffee," said the Jew again. "Certainly," the professor assented. "Coffee is

"Why, they will weigh it with my scale, of course. There is no other balance here." And so the Jew spoke, the professor familed he sculd datest the "Good, Master Issae; all the better for you! You will get your saven pounds instead of one! "Yes; well, seven, or thereshouts the reabouts," stammered the Jew with considerable hesitation.

nutritions: It warms the blood. How much do you

A nound. A pound will list me for a long time."

"And who will watch it for you?" saled Rosette,

Rowtto scarned his counterance narrowly, and was about to probe him with further questions, cellency say?" incuired Hakkabut,

"Why, Nebemish, he says he shan't give you "Merciful heavens!" began the Jew. "He says he doesn't mind selling you a little."

"But, by the hely city, why does he make me pay for what anyhedy che could have for nothing?" "As I told you before, you are not anybody also; so, come along. You can afford to buy what you want. We sheald like to see the color of your

"Moreiful heavens?" the old man whited once "Now, none of that? You or no? If you are going to buy, say so at once, if not, I shall shut Haldward lenew well enough that the orderly was

voice, "Yes, I will buy," The professor, who had been looking on with much interest, betrayed munifiest symptoms of "How much do you went? What will you charge for it?" asked Isane mearsfully, notting his hand

"Oh, we will deal gently with you. We will not make any profit. You shall have it for the same price that we paid for it. Yen france a pound, you The Jew hashtated.

"Come now, what Is the use of your hesitating? Your gold will have no value when you so back

"What do you mean?" saked Hakkabut, startled. "You will find out some day," answered Ben Zeef, stenificantly.

Hakkabut drew out a axiall piece of gold from his pecket, took it aleas under the lamp, rolled it over in his hand, and present it to his lipe, "Shall you wigh me the colles with my scale?" he asked, in a suarreine wice that confirmed the professor's

"There is nothing also to wrigh it with; you know pended to the book, and upon this coffee was thrown gotiff the needle registered the weight of our neural

"There you are! There's your coffee, man?" Ben

"Are you sero?" inquired Hakkahut, peering

OFF ON A COMET

fown cioce to the disi. "are you quite sure that the needle touches the point?"
"Yes; lock and see."
"Gray it a little push, please."

"Why?"

"Because because ","
"Well, because of whet?" cried the orderly, impatiently.
"Because I think, perhaps—I am not quite sure

-perhaps the scale is not quite correct.

The words were not dibred before the professor, ferce as a tipor, but rushed at the low, had school him by the threat, and was shaking him till be was block in the face.

block in the face.

"Help! belp!" screamed Hakkabut. "I shall be strangled."

"Essaul consummate reseal! third! villain!" the

"Essent! consummate reseal! third! villain!" the professor reiterated, and continued to chake the Jew furiously. Ben Zeof looked on and laughed, making no at-

ternet to interfere; he had no sympathy with either of the iwe.

The sound of the smalling, however, drew the attention of Servaiser, who, followed by his companions, haddened to the serve. The combitants were soon parted, "What is the manning of all

were some parted. "What is the meaning of all this?" demanded the appaint.
As seen as the professor had recovered his breath, exhausted by his certifore, he sand, "The old reprolute, the rescal has cheated as! His scale is wrong!

He is a third?"

Captam Servaular looked stormly at Haldenbut.
"How is this, Haldenbut? Is this a fact?"
"No, no-yes-se, year Excellency, only—"He is a chest. a third?" record the excited as-

treatmer. "His weights deceive?"
"Step, stop!" interposed Servadas; "Ict us bear.
Tell ms, Heldeshet....."
"The scale load It cheste! it lies" record the

"Tell mo, Hukkabut, I say," repeated Servadoo.

The Jew only kept on stammering, "Yee—no—I

But heading of any interruption, the professor continued, "False weights! That confounded syring histore! It gave a since result! The mass was wrong! The observations controllated the calculation; they were wrong! She was out of pixed! Yes,

tions; they were wrong! She was out of pasce! 248, out of place entirely."
"What!" orbid Sorvades and Procope in a breath, "cut of place!"
"Yes, completely," said the professor.
"Gallin out of place!" repeated Servades, agitated

"Gallia qut of pinos" repeated Serwaise, agitated with sizm.
"I did not say Gallia," replied Ecastic, stamping his foot impersonally: "I said Norfes." "Ob, Nortes," mawered Servade. "But what of

his foot impotunely; "I said Norman."
"Oh, Norman," massered Servidee, "But what of
Gailla?" he inquired, sith nervously.
"Gailla, of course, is on her way to the earth. I
told you so. But that Jew is a ransal!"

CHAPTER XV IGUINNY AND A BEATFOINTMENT

A JOURNEY AND A BRAPPOINTMENT To was as the preducer had said. From the day that Issue Hakkebut had entered upon his muo-

cheary instead of the wenter, his spirit had protect within him at being empidied to rouge the fruits of his own distinctedly. No one who had statisfied his character could be much unpruted at the normalism that was estarted from him, that for overy supposed bilippran that he had ever could be tree year with the country of the country of the protection, have it unjut to have been. The professor, however, had accretation all that he wented to know. By estimating the owner, at a third as much again to the proceed weight, be sim-

spring balance had been the mainspring of his for-

found that his coloubtions were always at variance with the observed adjustion of the adducts, which was immediately influenced by the mass of its princary.

But, now, besides enjoying the matisfaction of

But, how, besthes catogring the authoristic of harding pushable of Hilkhalted, Rosett was able to recommence his calculations with reforease to the elements of Needs upon a correct basis, a task to which he devoted himself with reducibled congry. It will be easily imagined test bases Makkeni, thus example in his own true, was heared most asmost one of the contract of the contraction of the needs of the contract of the contract of the warried of telling him how on the return to the world be would be presented for ming falls or

weights, and would cartainly became acquainted with the imade of a prison. Thus hadpred, be scribbed kinnell more than ever in his distract bela, never venturing, coupt when absolutely chilipst, to face the other manhers of the community. On he 7th of October the community.

note of the testessipo pitchel, one or winn the begon engined as a middlin, and the origin of the begon engined as a middlin, and the origin of the to the dishtingention of some large pixes that formorty received between the overta of Mara and Jupiter. By the beginning of the following month half of this zone had been reversed, and only two munits romined before the cellution with the sectiward to be occurred to the cellution with the sectiward to be occurred to the cellution with the sectiward to be occurred to the cellution with the sectiward to be occurred to the cellution with the sectite of the cellular to the cellular to the cellular to the surface of the est remainted as frozen as were, and the

the two vessels, high up on thair isy posisities, remained aminised in their critical position.

It was about this time that the question beam to be mosted whether it would not be right to response aone communication with the Englishmen of Gibberlan. Not that any doubt was correctation at a to take having bean the national correctation at the bright many than the form to be in question, for any that did have to be in question, respectively, the contraction of t

nemer retained, it was as seen can be their face they cheald be informed of the tree condition of things, which they had no opportunity of learning; and, moreover, that they should be leavined to cooperate with the population of Nine's Hive, in the event of any measures being suggested by which the shock of the approaching collidor could be

event of any measures being suggested by whom the shock of the approaching collision could be mitigated. The court and the Bentenant both heartly concurred in Servadar's antimonts of humanity and

carried in Services assuments of numeric products, and all agreed that if the intercourse were to be opened at all, no time could be so aritable at the propert, while the surface of the see properted

a smooth and solid footing. After a they should set

convey them to Gourbi Island when the occasion abould arise. As to the yewl, which, transformed into a sledge, had performed so successful a trip of summer temperature, there would be certain to

was aftegether too still for the yard to have any The only question remaining was the possibility skates like himself. The whole fourney there and

back might be performed in eight days. Provided with a compass, a sufficient supply of cold mest, and cetty, accomplish an coterorise that chimed in so Ecosily urgent were both the count and the lieu-

tenunt to be allowed to accommon him; nay, they elled their offer, and arowed his resolution of taking no other companion than his own orderly. Highly Adjobted at his manter's decision, Ben. Zoof expressed his astisfaction at the prospect of

Although it is not to be exectioned that a congine desire of doing an act of kindness to his fellowcreatures was a leading motive of Servaine's prowould wisit to Gibraltar, it must be owned that an-

worthy Gascon. Ben Zoof had an inkling that his "Then don't say a word to anyone, but fasten it

up tight in your knapsack." Ren Zoof found the flag, and felded it up as be was directed. Before proceeding to explain this somewhat enignizated conduct of Servadae, it is necessary to refer to a certain physiological fact, mens, originating entirely in the frailty of house

the handscope Madatre do L- should still be free.

From companions in peril, would they not again be

around rivals? Concast it as they would a coolness was underiably steeling over an intimacy which though it could never be called affectionate, had been uniformly friendly and courteous, Under these electrostances, it was not surprising scarcely have failed to widen the unscknowledged

The project was the amerantics of Ceuts to the French dominion. The Englishmen, rightly enough, and their claim was indisputable. But the island of Cents, which before the shock had commanded the by Speniards, had since been shandoned, and was claim to it. To plant the tricolor upon it, in the name of France, was now the charished wish of

"Who knows," he said to himself, "whether Couts, on its return to earth, may not eccupy a grand and commending attaction? What a proud thing it Next morning, as soon as they had taken their of slott of the above. Servader imported his design cally at the represent of adding to the demissions of

Both travelers were warmly slad, the orderly's krapeack containing all the necessary provisions. cident; helts were made at regular intervals, for the by night as well as by day was quite endurable, and on the fourth afternoon after starting, thanks to the straight course which their compass enabled within a few miles of Ceuta-As seen as Ben Zoof creight sight of the rock

on the western herizon, he was all excitement. Just as if he were in a regiment going into action, he talked wilely about "columns" and "squares" and "charges." The captain, although less demonstrative was hardly less corer to reach the rock. They denly, and said that he was sure he could see something moving on top of the island. "Never relief lot us hasten on," said Servadae. A

"What is it, Ben Zoof?" asked the exptain "It looks to me like a man on a rock, waving his

arms in the air," said the orderly "Plague on it!" muttered Servadac; "I hope we are not too litt." Again they went on; but soon Ben Zoof stopped for the third time.

"It is a persuphere, sir; I see it quite distinctly." And he was not mistaken; it had been a telegraph "Player on it?" repeated the cartein

"Yos, Ben Zoof; if that's a telegraph-and there to no doubt of it-somebody has been before us and

OFF ON A COMET 183 erected it; and, moreover, if it is moving, there and Bultimore, the two gallant offeres made use of

a courteons bow.

of speaking?"

ment be somebody working it new."

He was keenly disappointed. Looking towards the neeth, be could distinguish Gubrahar fairily visible in the extreme distance, and upon the summit of the rock both Ben Zoof and he featied they

coall make out another semaphore, giving signals, ne doubt, in response to the one here. "Yas, it is only too clear; they have already occupled it, and established their communications," said

Servaine.

"And what are we to do, then?" asked Ben Zoof.

"We want pecket our chaprin, and put as good a
foor on the matter as we can," replied the captain.

"But pechapa there are only four or fire English-

"not permise there are only for to the supporment to protect the place," said Ben Zoof, as ifmeditating an assault.
"No, no, Ben Zoof," anowered Servadae; "we must do nothing rash. We have had our warning, and unlease our representations can indoor them to yield their position, we must resign our know."

Thus discomited, they had reached the foot of the rock, when all at coca, like a "Jack-in-the-ben," a sentinel started up before them with the chal-

large:

"Who goes there!"

"Friends. Vive in France!" cried the captain.

"Hurch for England!" replied the selder.

By this time four chee roon had most their op-

By this time four other sen had made their apparamee from the upper part of the role.
"What do you want?" asked one of them, whom Servador remembered to have seen before at Giiraliar.

"Can I speak to your economisting officer?" Servades inquired.
"Which?" said the man. "The officer in command of Count?"

"Yes, if there is one."
"Ye, if there is one."
"I will acquaint him with your serival," answered
the Englishmen, and disappeared.
In a few minutes the commending officer, attired

in full uniform, was sen descending to the above. It was Major Olijahan thinself.

Revealer outli so longer entertwin a doubt that the Englishmeh had forcetalled him in the occupation of Costs. Provisions and include evidently been conveyed thither in the best from Gibralian before the sea had freen and a solid occupate.

been enveyed inliker in the best from Gillenline before the sas had frozen, and a solid conventation of the same of the same of the same of the and his peculiaguest ample protection from the rigor of the ventor. The scanning sucks that reas above the reck was unflicted reference that good from wore and the same of the same of the same of the well on what, no death, that been a generous discussion of the same of the same of the same and the matter hisself, although he would correly and the matter hisself, although he would correly

have been offling to allow it, was slightly intower better before. But the better bett

"To Captain Servadae, the governor general of Gallia."
"Induced" said the ranjor, with a supercitions as "Induced" said the ranjor, with a supercitions as stallible me to current my surples," pounds the captain, "at seeing you installed as semmanting ofition rupe with I have always understood to be Spanish soil. May I demand your claim to your position?"

The major stood waiting for his visitor to speak, "Major Oliphant, I believe?" said Servedne, with

"Yee, air, Major Oliphant, officer in command of the parrison at Centa," was the Englishmen's reply. "And to whom," he added, "may I have the better

pention?"
"My claim is that of first occupant."
"But do you not think that the perty of Spaniards now resident with me may at some future time ascert a peter right to the proprietorshap?"
"I think not, Captan Servadac."

"I think not, Gapton Sersider."
"But why net?" persisted the captain.
"Because these very Spanierds have, by formal contract, made over Ceptia, in its integrity, to the British government."

British povernment."
Servative intered in exchanation of surprise.
"And as the price of that important cession,"
continued Major Oliphant, "they have received a
fair equivalent in British geld."
"Abi" ordered Ben Zood, "that accounts for that

"Ab!" arted Ben Zoof, "that accounts for that fellow Negrete and his people having such a lot of money." Servadae was allent. It had become clear to his mind what had been the object of that secret visit

to Genta, which he had heard of an being main by the two English officers. The sepaments that he had intended to use had completely fallen through; all that he had now to do was carefully to prevent any samption of his disrepointed project. "May I be allowed to ask, Captain Servades, to what I am landship dig the house of this visit?"

"I have come, Major Oliphest, in the hope of doing you and your comparison a service," replied Servadee, routing himself from his reverte.
"Ab, indeed!" ruplied the major, as though he felt himself quite independent of all services from exterior sources.

exterior sources.

"I thought major, that it was not unlikely you were in ignorance of the feet that both Cents and Gibraitar have been tracering the solar regions on the surface of a comet,"

The major smiled incredializatly; but Servotae, nothing daunted, went on to detail the results of the collision between the come is and the serth, editing matter than the collision between the come is and the serth, editing matter rescuesties, it had occurred to him that it might be deviable for the whole permission of Galilla to matte in thating presentionary measures for the common whiters.

"In fact, Major Oliphent," he said in conclusion, "I am here to inquire whether you and your friends would be disposed to join us in our present quarters."

tern."
"I am obliged to you, Captain Servedae,"
assured the major stiffer, "but we have not the

AMAZING STORIES

stightest intention of abasissing our post. We have received no government orders to that effect, indeed, we have received no orders at all. Our own dispatch to the First Lord of the Admirestly still awaits the mail."

"But allow me to repeat," inxisted Servadae, "that we are no leager on the earth, although we expect to come in contact with it again in about eight weeks."

"I have no doubt," the major answered, "that Emphand will make every effort to reclaim us." Servidae of the perfected. It was quite evident that Major Oliphant had not been convinced of the truth of one syllable of what he had been asyling. "Then I am to unferstand that you are deter-

"Then I am to unferstand that you are determined to retain your two garrisons here and at Gibminer?" saked Servador, with our last affort at persuasion. "Certainly, these two poets command the en-

trance of the Mediterraneon."
"But supposing there is no longer any Mediterreness" rototted the cuptain, growing impatient.
"Oh, England will always take care of that," was Major Oliphani's cost reply. "But course me," be

added presently; "I see that Colored Marphy has just telegraphed his next move. Allow me to wish you good afternoon."

And without further paricy, followed by his naldiers, he retired into the casement, leaving Captain Servedae evaring his mustache with imported more

and mortification.

"A fine piece of business we have made of this!"

"We will make our way back at once," reglied Captain Servadae.
"Yes, the source the better, with our tails between our leap," rejoined the orderly, who this time felt no inclination to stort off to the march of the Algerian applyrs. And so the French tricolor re-

Algorita isologra. And so the Probin troposet, curred as It had opt out—in Sen Zoofs knapset. On the sighth evaning after starting, the travelers again at foot on the websaning percentury just in time to witness a great commodies. Palmyrin Kessette was in a furrous rage. He had completed all fin calculations about Nering, but their perfolious atteitlie had telephone. The

velving in its proper some of the minor planets. CHAPTER XVI

A DULI PROPOSITION

N his reform Servado ecomunicated to the count the result of his especifice, and, though perfectly silent on the subject of his personal project, did not cented the fact that the Samuards, without the smallest right, had sold count to the English.

Hering refused to quit their past, the Englishmon had virtually excluded thereselves from any further ecutionation; they had had their warning, and must now take the consequences of their own increduity.

and must now take the consequences of their own incredibility.

Although it had proved that set a single creature either at Gourbs Indued, Gibraltar, Coute, Madalana, or Formenters had received any injusy whotever at the time of the first concession, there was nothing in the least to make it carbins that a fibe immunity from harm would attend the second. The previous samps was doubtless owing to some silepin, though maccountable, medicanters in the rate of motion but whether the administration of the earth has freed as furticantally, was a question that that still to be determined. Having a granding stress of the

determined. The day fillwring Servedard's return, be and the count and Larettenet Process and the year and the test of proceeding under their present prospects. Ben Zoof was, is a matter of source, allowed to be present, and Professor Zeestte owners, allowed to be present, and Professor Zeestte Otto of the test of th

the disapparatuse of his muon had utterly disconouried him, and the probability that he should seen issue his course also, planged him into an excess of grief which he preferred to hear in solitude. Although the hearing of cool reserve was accretly increasing between the captain and the count, they controllated convenied on reserve the or of their

inner foolings, and without any personal bias applied their best corregion to the discussion of the question which was of such mutual, any, of such universal interest. Servados was the first to speak. "In fifty-one days, if Professor Rosetto has made no error in his calculations, there is to be a recoveree of collision calculations, there is to be a recoveree of collision

we have now to make it whether we are prepared for the coming shock. I ask my-st, and I ask yee, whether it is fin our power, by any mean, to avert the evil consequences that are only too likely no follow?"

Count Timuchell, in a voice that secured to thrill

with soleconity, said: "In such events we are at the disposal of an over-suling Providence; himsen precreations cannot sway the Divine will." "But with the most prefeture reversor for the will of Providence," replied the capital, "I beg to sultent that it is our duty to draine whatever means

submit that it is our duty to devise whatever means we can to escape the threatening mischlef. Heaven halps them that help themselven." "And what means have you to suggest, may I sak?" said the count, with a faint accord of estire. Serwidze was forced to acknowledge that rothing tanglish had bitheric oversated itself to his mind.

"I court want to intrude," colerred Sen Zool,
"but I don't understand why such bearing gentle
mon as you calmot mike the comet go where you
want it to go."

"You are mistakan, Ben Zood, about our learnlag," said the outsile, "even Prefessor Reactie,
with all his hearning, has mot a shadow of power to

prevent the cornet and the earth from keecking against each other."

"Then I cannot see what is the use of all this learning," the orderly replied.

learning," the orderly replied.
"One great use of issuring," said Count Times-chaff, with a sails, "is to make us know our own ignorance."
While this conversation had been going on, Lieu-

Mills this conversation had been going on, Licuterators Precept and been sitting in thoughtful sides ance. Locking up, he now said, "Inrident to this expected rhoot, there may be a variety of dangers. If, a, penthenen, you will allow me, I will commers at them; and we shall, perhaps, by taking thom series free, be in a better position to judge whether we can feet, but the property of the prop

successfully grapple with them, or in any way mitiatums, abould be left as it were upon the asswell

"Yes.

There was a central attitude of attention. It was the aircamstances that looked so threatening and

"First of all," resumed the locatesant, "we will "And the prime fact to be remembered," interposed Servacae, "is that the combined velocity of

"Express speed, and no mistake!" reuttered Ben. "Just so," assented Procepe, "New, the two bodies may imminge either directly or obliquely. If the impact is sufficiently oblique, Galila may do

earth; she may, or she may not, carry set a purtion of the earth's atmosphere and substance, and so she may first away again into space; but her orbit would undoubtedly be deraneed, and if we

will be transmuted into heat, and that best will be so intoive that the temperature of the comet will be "Professor Reactte, I suppose," Ben Zoof re "But we will leave this hypothesis," said the lieuto Lautenant Procepe's forebodings, they all retenant; "our own experience has sufficiently shown lapsed into silance, Presently Ben Zoof saked us its advantages and its disadvantages. We will whether it was not possible for the cornet to fall into

"A great wort upon her face!" saud Ben Zoof, Isoghing. The ceptain held up his finger to his orderly making him understand that he should held his

"It is, I ressume, to be taken for granted," conthued Licutement Process, "that the rass of the earth is comparatively so large that, in the event of a direct collision, her own motion would not be

"Very little question of that, I should think," said "Well, then," the lieutenest went on, "what port of this comet of ours will be the part to room beto

collision with the earth? It may be the equator, where we are; it may be at the exactly opposite In any case, it seems hard to foresee wheree there is to come the faintest chance of deliverance."

"Is the case so desperate?" asked Servedge, "I will tell you why it seems so. If the side of the comet on which we are resident impinzes on the earth, it stands to resion that we must be erushed

"Regular minrement?" said Ben Zoof, where no admensitions could quote reduce to silence. "And it," said the lieutement, after a moment's pause, and the elightest possible frown at the interruntion-"and if the collisons should occur at our antipodes, the audden check to the velocity of would be assimilated with the terrestrial atmosphore, and we, supposing we were not dashed to

Process shook his head, "Even so, we should only be adding the fate of drowning to the list of our "Then, as I understand," said Ceptain Servades. sion occurs, we must be either crushed, suffocuted, roasted, or drowned. Is that your conclusion, lieu-

"I confess I see no other alternative," answered "But lan't there another thing to be done?" said

"But would not our chances of escape be consid-

evably better," asked Count Timescheff, "in the event of either of the comet's poles bring the point

"Taking the curshined velocity into account," answered the lighterman, "I confers that I fear the

violence of the sheek will be too great to permit our

gentles occur in the way we have contemplated, I am

driven to the ampleton that we shall be burnt

true, the speed of the comet, when suddenly shocked.

No one having anything definite to allege in reply

"Burnt abve!" they all exclaimed in a chorus of

If the deductions of motors selected he

A general silence enused, which was broken by the

"What do you mean?" his master saled.

"Why, to get off the count before the shock "How could you set off Gallia?" "That I can't say," replied the orderly.

"I am not sure that that could not be accomplished," said the lieutenant. All eyes in a moment were riveted upon him, an, with his head resting on his hands, he was manifastly cognisting a new idea. "Yes, I think it could be accomplished," he repeated. "The propert may appear extravagant, but I do not know why it should be supossible. Ben Zoof has hit the right usil on the

bood; we must try and leave Gellin before the "Leave Gallin! How!" said Count Timescheff, The Meutenant did not at case reply. He conditions

distinctly, "By making a balloon!" "A balloon!" he exclaimed, "Out of the ones-

tion! Balloons are expleded things. You hardly find them in novels. Balleon, indeed!" convince you that my idea to not so thimerized as ed to establish the feasibility of his plan. "If we to harner, and can succeed in learnthone cursolves phere. I believe it will transpire that this atmosphere will amplements with that of the earth, and

Count Tomaschoff reflected for a minute, and

The scheme seems toughte; and I shall be ready to co-operate with you, to the best of my power, in "Only, remember," continued Procope, "there are many chances to one against our success. One in-

stant's obstruction and stoppage in our passage, and our balloon is burnt to sahes. Still, refugtant as I am to acknowledge it, I confess that I feel our sole hope of safety rests in our getting free from this

"If the chances were ten thousand to one against us," said Servadeo, "I think the attempt aught to be "Rut have see budrown smooth to indate a bal-

icon?" asked the count. "Het air will be all that we shall require," the Bestemat answered; "we are only contemplating

"Ah, a fire-balloon! A mentgelfier!" cried Ser-"But what are you going to do for a casvadar. "I have thought of that. We must out it out of the

salls of the Debryess; they are both light and atrong," rejoined the lieutenant, Count Timescheff conclusion by a ringing cheer.

Truly during was the plan of which Lieutenant Prococe had thus become the originator; but the very existence of them all was at stake, and the design must be executed resolutely. For the succan of the enterprise it was absolutely necessary to know, almost to a minute, the precise time at which the collision would occur, and Captain Ser-

vadar undertook the task, by gentle means or by assertatendence of the construction of the menthe large enough to carry the whole of the twentythere residents in the volcano, and, in order to provide the means of floating aloft ling enough to rive time for selecting a proper place for descent,

and keep up the necessary supply of heated air. The sails of the Dobryno, which had all been carefully stowed away in the Hive, were of a taxture proposily close, and quite rapphle of being made sirtight by means of a varnish, the ingredients of which were runcasend out of the promisesone storm of the terter. The lightenent himself traced out the pattern and eut out the strips, and all bonds were compared in seaming them together. persisted in accomplishing her own share of it.

this port, and having initiated the Spaniards into

professor were the only two members of the commusity who teek no part in this somewhat tedious A month neured name, but Servadec found no pledged himself to sain. On the sale occasion when he had vontroved to broach the subject with the su-

was no hurry to get back to the earth, there need Indeed, as time passed on, the professor seemed to become more and more inaccessible. A pleasant

servatory, from which intruders were rigilly shut out. But Servaded bided his time. He grow more out the erset moment at which the impact would Meanwhile, the earth's disp was daily increasing

during the month, at the close of which it was not A thaw had now fairly set in. The breaking up of the fromes ocean was a magnificant apactacle, and streams of water began to trickle down the deshare, only to be transformed, as the melting of the snow continued, into torrents or caucades. Light vapors gathered on the horizon, and clouds were formed and carried ranking along by become to customed. All these were doubtless but the prelude to atmospheric disturbances of a more startling they were greated with a welcome which no appre-

A double disaster was the inevitable consequence of the thow. Both the schooner and the tartan were entirely destroyed. The besement of the ley pedestal on which the chips had been unboaved was gradmally undermined, like the icebergs of the Arctic of the 12th the huge block collapsed on starge, so that on the following morning nothing remained of the Debryon and the Hansa except the fragments scattered on the sheep.

Although certainly expected, the catsatrophe erald not full to cause a same of general depression. had been broken; the ships were gone, and they had only a balloon to replace them!

To describe Issao Bakkabut's rage at the dostruction of the tarian would be impossible! His eaths were simply dreadful; his imprecations on the accuraced race were fall of wrath. He awere that

in fact, he became so intolerably abusive, that Servador threatened to out him into irons unless be conducted himself properly; whereupon the Jew, finding that the centale was in earnest, and would to bold his tonous, and alrak back into his dies bole. fully sewn and well varsushed as it had been, it was rigging of the yacht, and the car, composed of the twenty-three passengers it was intended to fort or ourvenience, as the ascent was to last for so

sheet a time, morely long enough for making the The necessity was becoming more and more urgate than ever in his resolution to keep his secret.

On the 15th the comet errored the orbit of Mars. last hour had taken them unawares. The volcano ternal disturbances, and Servadae and his comto some suchan disruption, rushed into the open air. The first object that caught their extention as note professor, who was secuniding down the

mountain-side, niteously displaying a fragment of It was no time for condelence, A new marrel arrested every eye. A fresh satellite, in the gloom of night, was ablaing complete-

That swiglite was a part of Galila itself!

like Gambart's comet, had been severed in twain; The fragment included Cepts and Gibraltar, with

THAT would be the consequences of this sudhas people hardly dared to think. The first change that cause under their observation was the rapidity of the sun's repearances and disappearances, forcing them to the conviction that althrough the comet still rotated on its axis from

vadoc, "We have got a year of something like 2.830

"I shrolde't think it would be an easy matter to find saints exceed for such a calendar as that!" Servedae lengthed, and remarked that they should

It seen became exident that the detacked portion "Why, jan't her mass dissintahed? Isn't she split

sessed any other condition for supporting life, and whether it was likely ever assen to approach to the north, were all questions that were beyond means to determine. For themselves the all-important recolors was what effect would the rending assunder of the comet have upon its rate of progress? and as they were electedy conscious of a further incresse of muscular power, and a fresh dimination of specific gravity, Servades and his associates could not but wonder whether the alteration in the

was not revolving round the comet, but was gradu-

the expected coincidence with the carth altegether. Although he professed himself incornectent to pronunce a decided opinion, Lieutenant Procept manifestly inclined to the belief that ne alteration Rosette, no donnt, could answer the question direoth, and the time had now arrived in which he must be compelled to divalge the precise moment of But the professor was in the worst of termers.

usually uncivil whenever any one ventured to speak to him. The less of his telescope had doubtless a great deal to do with his all-humor; but the captain draw the most favorable conclusions from in stor way projected from its course, so as to be likely to fell in coming into contact with the earth. the professor would have been quite unable to concoal his astisfaction. But they required to know more than the general truth, and fult that they had no time to less in getting at the exect details.

The desired opportunity seen came.

On the 18th, Rosafte was overheard in furious also a child's toy. It had cracked like a dry rat; and nightn't one as well live upon an emploding bomb? -with much more to the same effect. The need ing at the "predictors" mountain of Montmartre, and the dispute was beginning to look serious when

Thinking he could turn the wanteling to some was so enxistedy seeking, the contain pretopded to esponse the views of his orderly; he consequently brought upon himself the full force of the profee-

Boastte's language became more and more violent. till Servadec, feigning to be provoked beyond endurance, eried; "You forgot, sir, that you are addressing the Governor-General of Gallia

"Governor-General! humbug!" rouged Resette. "I deny it," said Servadae, "Gallia has lest its chance of setting beak to the earth. Galifa has nothing to do with you. Gailla is mint; and wer must

"And who told you that Gallia is not poing back to the couth?" asked the professor, with a look of

AMAZING STOR

in half? Into her valority all altered?" demonded. The count and the heatenant, of colier and kees the captain.

"And pasy who told you that" apain acid the processor, with a mose, "Everybody. Everybody known it, of course." Southy, but every definition, the control of the understand to get a half face upon every definition.

reglied Servoide.

"Everytody is very clerer. And you always were
"Everytody is very clerer. And you always were
a very clever scholar too. We remember that of old,
lamich, consuming the bat of their hitle reserve of
deal; was."

deft's est"

"Sir"

The first regars had been made by Servedes with

"You com'r mastered the first elements of serveral of the author. They found the pourt's and

"You disn't you'?

"Sir"

"It's the winter weather; numbers of little livestee

For the state of the pour class?

The control to your class?

class?

T

"Sidd your torque?" reposited Servator.
"Find because the mass is altered you think the
abouty is altered?"
"Sidd you torque?" cried the outsin, knośer than
"Another of the voyages to the failind had been to

over.

"What has mose to do with the orbit? Of how many counts do you know the mass, and yet you counted do you know the mass, and yet you counters for movements? I government "beauting the halloon. Rind the halloon bear less have been conveyed to the halloon that wo were affected, along the halloon and have been effected, along the halloon and have been effected, along the halloon and have been effected.

Rows their movements! Ignorance" abouted is limit, whence the start would have been effected, "Head-of-vectored favorable moving the moster was absoluted authorite to the ballow anarym, and a introduction movement towards the fragment of the hillyweeked would had to be a fragment of the hillyweeked would had to be the control of the hillyweeked would had to be the control of the hillyweeked would had to be a fragment of the hillyweeked would had to be

professor.

used day by day for find. Habitabut began making in used the proof of the control of the proof of the control of t

again would not before a court of justice!"

"Where? On Gillin" saked the captain.

"No; or the earth."

"The sarth! Pshow! you know we shall never set there: care velocite is channed."

"En earth velocite is channed."

"En earth velocite is channed."

with the earth, "repeated the prefectors, with the "Track" rejected the prefectors, with the "Track" reject Ben Zeed. "The earth wall be to far off for us to come across her order at Rejinstan and lad second past two objects on the "Track" rejects and a Ben Zeed at September 18 and the Track and the Track and the Track and the Track and Track a

specialis of this coming that of Leminy?

"Thinkis, my down refusions—many thanks. You
Court Thinchells fill to be all factor developes as
here given on all the Information I required;"
that you have been a considered that the age to accommodate the consideration of the considerati

Collina days, throw of the present-was all the thicked render in his learns community, throws sufficient for proportion that now remained. Every probabilistic granuscents was hurried on with the probabilistic arrangement was hurried on with the greatest cornantess.

There was a general expectance to be quit of Galthree was a general expectance to be quit of Galterm was a general expectance to the quit of Galterm was a general expectance to the quit of Galterm was a general expectance to the quit of Galterm was a general expectance to the quit of Galterm was a general expectance to the quit of Galterm was a general expectance to the quit of Galterm was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quit of Gal
term was a general expectance to the quite of Gal
term was a general expectance to the quite of Gal
term was a general expectance to the quite of Gal
term was a general expectance to the quite of Gal
term was a general expectance to the quite of Gal
term was a general expectance to the quite of Gal
term was a general expectance to the quite of G

has infilience in the diagnost that must measurably attend a things once there in the control of the control of

so that they were quite snegatine as to the successful insec of their otherprise. Ceptain Servation and the state of their otherprise. Ceptain Servation and the state of Philosecond and the state of the state of

The only restroytest was Palveln Rosette, Day and night be persevered in his satronomical pur-

was a never-ending theme of complaint; and just abcoting-stars, and new discoveries might have dearested to increase the intensity of his vision by all in valu; not a single fresh discovery rewarded

No one was quite exernet from the fewerish excitemost which prevailed during the last days of Decomber. Lisutenent Process superintended his final had been erected firmly on the chore, and formed supports for the balleon, which had been daly covinflated skins had been attached to its aldes, so that descending in the sea at a short distance from the mid-occam, nothing but the happy chance of some nessing vessel could save them all from the cer-

The Sist came. Twenty-four hours bence and the in the sir. The atmosphere was less howeast than that of the earth, but no difficulty in ascending was

Gallia was now within \$6,000,000 miles of the gen, consequently not much more than 4,000,000 diminished at the rate of nearly 208,000 miles an hour, the speed of the earth being about 79,000 miles, that of the comet being little less than 188.-000 miles an bour,

It was determined to make the start at two o'clock, three-quarters of an hour, or, to speak correctiv 42 minutes 35.6 seconds, before the time pre-The modified rotation of the comet caused it to be daylight at the tune. An heur previously the balloon was inflated with

perfect success, and the car was securely attached Isnas Hakkabut was the first to take his place in noticed that his waist was encompassed by an

enormous girdle that bulged out to a very extraordinary extent, "What's all this, Hakkabut?" he "It's only my little bit of money, your Excellency; my modest little fortune-a mere bagabolle," sold

"And what may your little fortune weight" in-"Only about sixty-six pounds?" said Issae.

reckened for this."

"Rixty-six pounds!" cried Servedse, "We haven't

"Sixty-six pounds?" repeated Servades. "We can hardly carry ourselves; we cen't have any dead weight here. Pritch it out, man, nitch it out!" "Out with it, I say!" cried Servedee "What, all my maney, which I have saved so long, and toiled for so here?" "It can't be belted," said the captain, unrooved,

"Oh, warr Everlieney!" eried the Jew "Now, old Nicodemus, listen to me," interposed

above his money; he made a ismentable outcry about it, but he unfastened his girdle at last, and Very different was the case with Palmyrin Rosette. He avowed over and over again his intention

of never quitting the nucleus of his comet. Why should be trust himself to a belloon, that would Sarvader's bedding two of the sanlors, without more To the great regret of their owners, the two horses and Nins's net goet were obliged to be left behind. The only greature for which there was

found a piece was the carrier-pigeon that had brought the professor's measure to the Hive. Serwalse thought it might probably be of service in earrying some communication to the earth. When every one, except the captain and his orderly, had taken their places, Servadae said, "Get in-"After you, sir," said Ben Zoof, respectfully, "No, no!" Swisted Serwidge; "the captain must

be the last to leave the ship !" over the side of the car. Servadae followed. The eards were sed. The balloon rose with stately colmness into the air.

When the tellect had reached an elevation of about 2,500 yards, Lieutesant Proceps de-termined to maintain it at that level. A wirework stove, suspended below the casing, and filled with lighted hav, served to keep the air in the in-

Beneath their feet was extended the basin of the Gelling Sea. An incomplerable speek to the north murked the site of Courb Island, Cente and Gibraltar, which might have been expected in the work, had utterly disameared. On the south rose the of the sea; whilst in every direction the strange soil, with its commixture of tellurium and sold. gleamed under the sun's rays with a perpetual

Appearently rising with them in their secret, the boriom was well-defined. The sky above them you

AMAZING STORIES

space.

perfectly clear; but every in the northwest, in opasition to the sum decede a row upbers, we armit that it could not be an anteced, but like a distinct matter, it was the fragment that the internal convalute had rest from the surface of the eccest, and present the sum of the

The layer approach interrul, bowers, was the great expanse of the terretrial day, which was rapidly devoke them obtained towards them. If you have been always to the control of the contr

ment; these were the vapura that pervoded the terrestrial almosphere.

But as the memorials were being hurried on at a.

But as the memorials were being hurried on at a.

speed of 70 miles a second, this vapus aspart of the
carità seen devoluped itself into definite outlines.

Mountains and plains were no longer confused, this is
distinction between see and above was more plain.

Monthled, and instead of being, as it were, depicted on a map, the surface of the careb appeared as though mediatal in relief. Twenty-seven minutes part two, and Gallia is only 72,000 miles from the berrestrial spheres quicker.

and guident is the vehicity too minutes savet, and they are only 36,000 miles spart!
The whole configuration of the earth is clear.
"Surpse! Russia! France!" shouted Protop, the count, and Servades, almost in a breath,
And they are not motidon. The eastern humis-

phere lies before there in the full blaze of light, and there is no possibility of error in distinguishing centiment from continent.

The surprise only kindled their emotion to yet become informatly, and it would be hard to describe the arribment with which they small at the second

become interactly, and it would be hard to describe the excilement with which they gained at the posteriors in this was before them. The critis of partl was close at head, but imagination overlapped all emablication of fanger; and everytheir was held to the control of the control of the control of the critical of this critic of humanity from which they had supposed themselves severed forever. And, truly, if they sould have passed to study it,

that, ponorano of the states of Europe which was entirectable diver their eyes, was conspirent for the feature of the circumstance of the contract of the conditions of the conditions of the ether, have associated them. There was England, marching the same stately denie towards the east, trailing her sample skirts and coronated with the cluster of hr title intels; Swoods and Neweys, with their brindling apins of nouritides, seemed like a splendid like capt to beging from from the

Caucagus; Austria resembled a huge cat carled up

and sleeping a wainfield sleep; Spain, with Pertugue as a perment, like an unfuried bonner, Stated come the extremity of the contracti; Turker, like an issued to be a superior of the like and the contraction to be a superior of the like and of Greece with the other; Pluly, as it were a foot and lag encoused in a light-ditting body, use jugging defity with the lands of Stelly, Mexicum, and Corriers, Printin, a many, like sleep just greating the frontiers of Prince, many, like sleep just greating the frontiers of Prince,

formidable anishet imbedded in the heart of Germany, he edge just grazing the freedlers of France; which France itself suggested a vigorous torse with Paris at the breast. All at once Ben Zoef broke the clience: "Montmetric! I see Montmartre!" And, smile at the sub-

marfer! I see MONTHEFFOR TAD, more is the same marfer; as others might, arother could be carefully as others might, arother could be carefully not be sufficient to the could be carefully marfer out the features of his veloved means. The only individual whose soul account extendby the approaching earth was Palmyrin Roseston. Leadings over the also of the car, he kept his strefued upon the absoluted serred, now faculting about present the sufficient of the could be also present the could be also the could be also market the could be also the could be also the could market the could be also the could be also the could be market the could be also the could be also the could be market to the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could be also the could be also the also the could be also the could

Chrosmoter in band, Lioutenest Procope stood marking the injurious and seconds as they fidd; and the stillness which hid over again follow more herm store, that the stillness which hid over again follow more herm store, that the ballian might restand his accesses store, that the ballian might restand his accesses that times assumed on the carbo why an ongerment that indeed assumed to the settle by the ongerment that in the same proceeding the settle store that the carbo which because it mught be precured that if the carbo proceeded the ballian in the centact with the terror for them carbo which was a threat ballian to the other carbo when the same proceeded the ballian in the centact with the terror for them can almost him to be obtained.

the balloon alight! If upon term forces, would it be in a place where adoquate resources for safety would be at hand? If upon the coear, would say peasing weed be within half to recrue them from a their eribal pasition? Truly, as the count do so erved to his comendes, some tot a Divine Pilot could above them now.

"Froty-two minste past!" said the Hesterart, and his voice seemed to thrill through the silence of expeniation.

There was not 30,000 miles between the comet and the certh!

The calculated time of impact was 2 hours, 47 minutes, 358 seconds. Five minutes more and cellision must enum!

But was it so? Just at this moment, Licetenum Propose observed that the count deviated annulally

is an editions course. Was it possible that after all collision would not occur? The deviation, however, was not great; it did not justify any anticipation that Gellin would merely grow the earth, as it had done before; it but m

justify any amingation to be Gamin worth mercy grown the earth, as It had done before; it but it certain that the two bodies would inestitately impinge.
"No death," said Ben Zoof, "this time we shall stick together."

Another thought occurred. Was it not only too Bady that, in the fusion of the two atmospheres, the believe itself, in which they were being conveyed, would be rest into ribbone, and avery one of

OFF ON A COMET Gallian should survive to tell the tale of their In fact, they were secretly more than a valle from

strange peregrirations? Nomenta were procesus: but Hector Servedge reat least some record of their excursion in solar dis-Tearing a leaf from his note-book, he wrote down

parient, and the date of the comet's subdien; and which was nestling in bur bosom.

The child's ever filled with tears; but she did not say a word, and imprinting a kiss upon its soft plumage, the surrendered it at once, and the message was hurriedly fastened to its neck. The bird ened in their diameter, and quickly sunk to an al-

titude in the comet's atmosphere much inferior to

Some minutes more were thus consumed and the interval of distance was reduced to less than \$.000 The velocity become inconceivably great, but the

car in which they were making their serial adcantain of the 8th Artiflery. In return to his some-"Forty-six minutes?" announced the lieutenant.

The element expanse of the carth's disc seemed like a vast fusnel, yawning to receive the cornet and its otmosphere, balloon and all, into its open mouth. There was half a minute yet. A thrill ran through

every vein. A vitration quivered through the atmosphere. The balloon elemented to its utmost Every reasoneer in the onlyering per involuntarily mospheres amalgamated, tlouds accumulated in heavy masses, involving all around in dense obscur-

mer on the scene. In a musicary every one found himself upon the earth again. They could not explain it, but here they were cope more upon terrestrial sail; is a swoon they bad left the earth, and in a similar awoon they had come back!

Of the halloon not a vestige remained, and contrary to previous computation, the comet had merely of spece, egain far away!

CHAPTER XIX DACK ADAIN

"Yes, Bun Zoof, in Alzeria; and not far from Mosts earny," Such were the first words which after their return to consciousness, were exchanged They had recided so long in the province that whereabouts, and although they were incorable of clearing up the mysteries that shrouded the mirania, had been returned to the earth at the very identi-

N Algeria, captain 1º

cal spot where they had quitted it.

excitement anywhere so they went along. The pepplation was perfectly calm; every one was pursuing quietly upon the pastures that were most with the sight o'clock; the sun was vising in the east; nothincident had either transpired or been expected by the lekabitants. As to a collision with a cometmenon crossing men's minds, and awakening, as it

Mostaganem, and in the course of an hour, when

approach of the milleunium. "Nobody expects us," said Servades: "that is very "No, indeed," answered Ben Zorf, with a sigh; he

was munificably disappointed that his return to Mostaranem was not welcomed with a triumphal reesphiera They reached the Masonra gate. The first pereems that Servadac recognized were the two friends that he had invited to be his seconds in the duel two years are, the cokenel of the 2nd Fusiliers and the

"I, myself," said the captain. "Where on earth have you been to all this time? In the name of peace, what have you been doing with

"You would never believe me, onlonel," answered Servaded, "if I were to tell you; so on that point I had better beld my tengue." "Hang your mysteries?" said the science: "tell me, where have you been?" "No, my friend extose me," replied Servedse; "but shake bands with me in cornest, that I may be sure I am not dreaming." Hotor Servadae had made up his mind, and no amount of purpossion could induce him to display his instellible experi-

₹D000 Anxious to turn the arbiect, Scrender took the earliest opportunity of asking, "And what about Madame de L-"Madame de L-P" exclaimed the colonel taking the words out of his mouth; "the lady is mur-

ried long are; you did not suppose that she was oring to wall for you. "Out of sight, cut of mind." "True," restied Servedse: and turning to the count he said. "Do you hear that? We shall not

have to fight our duel after all." "Most honey to be extuned." rejoined the count. The rivals took each other by the hand, and were

"An immense relief," said Servaine to himself It was arread between the cantain and the rount

that it would be desirable in every way to maintain the most rigid allence upon the autient of the inexplicable phenomena which had come within their



HOW THIS MAN

As an Electrical Expert

Guest Minner of the verses of 18 years of
promotion of the verses of 18 years of
promotion of 18 years

October 18 years

Min Superson of 18 years

Min

WHERE the maked the or make and is a fee we WHY DON'T YOU GET INTO THIS BIG-PAY FIELD?

THIS BIG-PAY FIELD?

We seem of states of and N. Bourstanton and states of states of the state of the states o

AND STATE OF THE S

SCHOOL OF ENGINEERING

Service, And Province and a management of the control of the contr

Chief of Statistic Country and Nove to the Statistic Country and American Country and America

Advances (Wilding and Korie Guerrier Erech Conservation of the of the Mediterraneon had undargone no thange, but they coincided in the opinion that it was prudent to keep their bewiderment entirely to themsolves. Nothing induced them

to break their reserve.

The very next day the small community was breden up.

The Debryon's crow, with the count and the Hentersun, attributed for Russis, and the Speniards, provided, by the count's too.

ed for Russia, and the Speniarch, portfolis, by the courte that I is was the great dispulibratility, with a competency that is was taken with that is, that casured then from wart, were despected to their native wherea. The leves taking was adopted, the one by Sarvalar, noncomplished by greaten telester, the other by the count, and one

of regard and goodwill.

For Issue Haldwalut alone
there was no fashing of regret.

Doubly ruined by the locs of his
tarton, and by the abandonmust of his furture, be disappeared entirely free the some.

It is notified as more than one.

freshied hissest to institute a marriage to the Italian, now accord after him, and as Bus grown into a charming girl, Soul restautively remarked, upon whom the count bastrowed by British gained in a the Satest Milling hissest in an long developer, the years publish haspitanes in an way arrived from a count; "

But himself or extra was the samed Bully, to be the Mann some Bully to

dae might make on his part, nething could induse Professor Roads to account his experiences. In sylte of the deatal which astroneous after astroncomer gave to the appearance of such a count as Guilla at all, and of its bullar gettined admission to the cutalegue, be published a ventulement results.

such a count as Gallin at all, and of list bairs refused admisable to the collegence, be published a voluminous treaties, not conjude things this own adventures, but setting forth, with the most alaborate precision, all the elements which settled its peried and its orbit. Discussions arouse in scientific

an unimportant minority declared themselves in his fiver, and a pumphlet obtained some degree of notice, ridicialing the whole debate under the trile of "The History of an Hypotheia". In report to this impacti-

which debates under the fittle of "The History of an Hypothesis." In reply to this importined criticism of his labers. Roastle instand a rejectory fittle of the most whemmet asservertion that a fragment of Gibraier was still traversing the regions of space, carrying therthem Englithmen upon its surface, and secondaling by saying that it was the ornal discretization of the control of the con-

The Public and IRIO Nina were as adopted, the one by Serveduce, the court, and unserveduced to the public of the court, and unserveduced to the court of the cour

and Eve of a new world.

The corner of the comet was ever a mystery which neither Servadae nor his orderly could alliminate from the regions of doubt. Aughow, they were former and more confiding friends than ever.

One day, in the envirous of Montrauries, where they were searce from envestroppers, Ren Zoof incidentally referred to the experiences in the depths of Ninate Hive; but stopped sheet and said, "However, those things never happaned, sir, 45t they?" His master could early reply.

jectry decided against the rep- "Confound it, Ben Zoof! What rescutations of the professor; is a man to believe?"

THE END