

WINGS: THE ECSTASY OF FLIGHT

RCTION BY HARLAN ELLISON, ORSON SCOTT CARD, OREGORY BENFORD, ROBERT SHECKLEY PLUS: FACTS ON THE ONE-MAN RYNG MACHNE' HOW THE DRAGON GOT ITS HISS 'A CYCLE THAT FUES - INVASION OF THE BODY SNATCHERS - QUEEN OF THE UFOS - AND AN EWOTIONAL, IF NOT UPLIFTING, LAST. WORD FROM THE PESIDENT OF THE "MAN WILL NEVER FU? SOCIETY.

Asstra 68 StBeiguet, 100 BF. Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR: Trintend 11 80 FMV-since 15 00 Fi/F Germany 9 00 DM/Greece 160 DR: Denmark 20.00 DR:

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We have the second sec



This cover at for this month a CMM is an imaginative landscape called "Hide Without Tate" painted by W. Burnes (schladt xuglig)". Predict Histochemistre is addition to painting. High-familien also crustes hooks real Hins for photom.

where Grand Marnier isn't offered after dinner.



KENDX

we find the clue that wil lituminate that ultimate light—to the far edge of the galaxy and beyond? 5 In the beginning the heavens were empty Even, some 300 mitrori years ego, the Instituteous, tray procursors of the helcopier, took to the air, and the coed of the dream wills clarified.

The needs wind the heaven a done to user, 100 minor yes cut has no deetour out, foot-tagged rights langual form a time the analoguement of forther the fast met the analoguement of the test and the software of a lating. How was produted works to the tright-back how was the days not much of an arranged - to have the software of the software of the software of the software of the language software of the software product with flow area, there are needs software of the software sof

Interplaced—exactly 150 million years—and then, only three and can half inflion years ago man, the most as vanced of orienturies, appeared. He presails, assing brids, the embodment of freedom and mobility. At this means the cheam was born—so fly!

The original rate bath set to see the term the Cartran poet Costs who would be the Cartran poet Costs who would be the views to those may all releases to cost and the costs the who was applied to the cost of the cost of the cost may be been difficult and lines in costra the term of the first was due to the cost the cost of the cost of the cost of the worms to those who meet to costs of the was made and the was the meet for each of the was the term of the term was been and and the was the meet for was been and the was the term of the term was been and and the was planmade to was an effective to the set to be the term was.

Consistly, prior to the 18th century, only one man, learned de Wings, assuming, a sproached the problems of hight Learneds approach the fight of brots with the disactering usy of an artigit and the guistforming syst dara stratic and the guistforming syst dara stratic ing detailed studies of bird moters of ingenous thing machines. Given a tee modern malantelis and gentrage is used Wellowegen moter, Learned three much wellowed by the worked

We finally became antonne in the 18M perfury, thanks to the development of the bet-an balloon Ballooning brought treedom'non the continue of warbs, but it add net provide the thrill of speed and mobilfig and as the chean well usrealized the mark have been enremative clear to the first average been enremative clear to them. These of until part of years ago them to be an enremative clear to them. These of until part of years ago them. These of any encode them Deptomers a Arch Garolina beach, that the offers was fractioned.

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To date, whether success we have to an inclusing the primal drawn of high has come from initialing narise. We have closely watched the flight of brick and from that reample designed our arbitmes. We have sortaining the havering bee and devolpted our herecepters, observed the equid in matter and flashened our hills and rockets.

The question how is, it has a be need body there an adjust with we have the data body of the parts or main the class the far edge of the galaxy and begind the creative and any of the galaxy and begind the creative and the data with the second be been black and with the second be repeting any of the second process of second perfusion of a plant entropy of second perfusion of a plant entropy of body adjusted in the second process and body adjusted in the second performance means aground a creation with the second performance the second performance and the second performance means aground at creative site from the means aground at creative site from the construction. Body and the second performance th

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OWN's soverage of light pherometers in only locates this sky above but sheats new light on the each below in the start of the start of the start and so that are service (in start and source there of each home plane) using satisf planta starts derived being satisf planta starts der satisf satisf

This month a fiction leads off with "Court the Clock that Tells the Thim" (p. 60), a new story by the incorreparable Hartis Ellison. The ordard stocked at usence 6 (clock - Narion wrote this story in the lobby of a Phaseen holet, encased in a plastor tent, while he was guard of hone at the recent 30th World Science Faction Convention.

The author of 32 books and over 900 magazine antides and stones—many of hem written in similar orounstances. Harten has just completed the someinplay of lassic Association of Abbot ter Warmer Brothers, budgeted in a cost \$30 million. He sweptische is not a science for10000

tion writer but rather a fanlasist and offers Count the Clock as evidence

Histon is parted in the source by two other established masterial discerces fertion Grogoy Bonteni ("A Has of Drogor. B 4) and Robert Sheckby ("Roby Game") 7 78; Bankent shecine ("Roby Galletina al livine aprine stake of sobmale drogors and other sectorial end masterial sources and the Autor time drogors and other sectorial crasterial masterial may be of the Autor time when we all may be of the Autor

Pounding out this month's functions in A Thousand Dearths' (in 9%), a chilling acosunt of world oldstordhip in the not too distant status by Orsen Some Cand, who recently captured the John W. Campbell want for best new science fiction writer of the year.

In The wet OWN's occessing media overages, this method was used to be mere, investor of the Body Shatches (p. 156) and Technology Sh

MAN WISHWITCHALLER

THE COOPERATION Bob Disposes (distribution wind principles Kalthy Kanada (analysis kilos parcedus) men 8 (biblion per coller recuperation) selective 3 Dispose (1) (analysis) (1) (analysis) contraction (1) (analysis)

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Standard Bearer

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Philip Handler President National Academy of Sciences Washington D.C.

Stendoman Weep

I want you to know that Omst integrates me and i think is has a place in our magazine scheme of things. I find judge anything I pick up by its quality and ordinarily you have printed schembing of quality.

I'm looking forward to recoving further capies of your magistime

U.S. Senate Washington, D.G.

Laminspressed it is really quite an effort Being a then of U. Geniust K. O Nellis works on the High Fronteer. It hough you might be elsevieted in knowing that a messure I introduced to previde knowing for a Nelenol Science Fronksito is subject of a solar energy Cliencian (poli hy is represent the energy Cliencian (poli hy is represent) as also of the subject for an isobsorbers in house strose.

Hamson A Williams U S Senate Washington D C

Platoruc Icleal

I saw the first usue of Ottel on the newsstand and bought it on speculation. At the mathems, I via read through the list three stroles and gianced over the read, and It in so liabbargainted than I have to write and tel you white I functions: morganon you have have I ve been neading accente intern for 12 years and Scientific Areencear for almost as long, and Clenn harming att work and photography I doubt hermitigues for myori and batch with the II Clenn were any more august with the II Clenn were any more august heave

> Datek Grimmell Minteapolis MN

Nuke Rebuke

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Lonng Wirbel Tempe, AZ

Harryfsauson Goes to Mars

Superflational to your premiero assue "Your media report havever effici creation moconceptions regarding some time. Jesso and the Appoints is being remetalisated as a result of the recent support limited makers stop-metation instration. Bay timeryhausen and Columbus arcent thratoal uccess with Subbard and the lyte of the subcess study babbard and the lyte of the subcess study and the subbard and the lyte of the subcess study the data study of the limit yet another planned execution have have

Star Wars // will contain several key sequences with stop motion animation in filem, now being prepared by Star Mars alumni Jan Berg and Phil Toppet

On hand at Universal is The Incredit ble Shveking Women, a spool on the "Ste classic Shinking Man, for which make up artist Rick Baker is creating the "uhmate contains and "

Paul Mandell New York, NY

Pattern Watchers Anonymous

I really empyed from Gausset a however asymptot (Control Contry). Even inheapth is a software (Control Contry). Even inheapth is commit plats is not impossible. I wearship and a book 7 and Angomete for the Extension of Manwana, buy dray. And being a forware watched is local uldeffly with them Selverson has an endtable to software watched is local uldeffly with them Selverson has an endthering selvery, and is doesn't leave much to special fail on the software much to special fails of the software and the software in the software and any an intro months. Bend I have an upo user abler type local. I have an upo

Thank you for your thought-provoking story on this mass media monster

Kathy Van Potszown PA

Oberg Sightnes

being organization you on Omiti's fine first soure i was especially impressed by the fine and well-balanced raped an UFOs by James Oberg. It is probably the best reportion UFOs to appear in a poplar megicane. These you keep up this good work in teporang other paranomal science.

Sam Piazza Bostory MA

I was overspeed by the UFO Update columm in October Orms' you are the first to take a solutific approach to a tough subject in UFOlogy there are no safe, easy answers, only the growing leading that we may never really solve the question Charles Lable.

Woonsocket, RI

James Oberg is update on the UFO aduation was anguing and, for the most part, accurate Hoerver, I must take strong eoppian to the comments made about satisfy of UFO obourise Philip J Aliasa. Oberg is comprised that Klass's investigations are accessible more accessible or accethat than those of other UFO investigators is table without Securities.

By why of countrols many papers are not entrained with the USO indeposite close entrounter the source read in the Mansheld. Choice Deckber 1973, and which mays UIC excepts now consider to be one of the back unknown's in macroinitial cases, the four-man received at US and respect backgere expenses are near collision with a lightfor durind carried on a respect backgere interpreting of the source which indeposite the analysis decision that a lightfor durind on the source of the the source that object way does to the indeposite the object way does to the indeposite the minute despite the bot that Diaquian Law neared Cayne, the pice, necontrol was headen gin to craft a controls in possise in a user. Issearchine boss a of non of his in term issearchine boss a of non of his settine object sensity. Coyne and this new was a freadul term to Oncord microso showed. This "registrue mixing patient" one was a fread through term to Oncord microso showed. This "registrue mixing patient" one was a fread through term to Oncord microso showed. This "registrue data term to the set of the one of the set of the terms and the fread head Hass and Coyne have neared the local Hass and Coyne have neared the local Hass and Coyne have neared the Hass and Coyne terms and the theory head the social term terms who have registed the social term.

In contrast, a "spectrast" and "stoceffect of week groups on contracted by Ma effect of week groups on contracted by Ma Brudeteau of the Maral (LPD Setexers can exact of our R bruse) (LPD Setexers can exact of our R bruse) (LPD Setexers can brast the LPD setexers can outling to have a classification areased), and the LPD setexers can be setexed. Mr. Report groups the means of the LPD setexers the set of a LPD setexers the set of the LPD setexers the the LPD setexers the set of the case to the LPD setexers the setexers the the LPD setexers the setexers the set of the case of the setexers the the LPD setexers the set of the case

Lam in complete oppernant with W Obling that the waperhold and biased investigations of many LPD annihulisats have clouder dather than clouder and that mystary at the UPD table can assure you that our understanding of the generative nonline not advanced in their, by the equality soperficial and ta small efforts of clouder sander deburkers such as Philip Kloud

> Al Poderfield Peld Investigator, Aetial Phenomenon Research Organization, and Musial UFD Nework

Mr. Oberg considers the Coyne fieldcopter case are of the best on record and will treat the case the collection in an upcommtg result. Everytoody contros to agree the depert come from outer space, bot was if a spectamp or a treatest methowite2-Eg/

I load if like to contect the impression fames (Design pares that Philp Kase and the UPO Subportmittee trave austitution costs of the UPO subportmittee trave austitution costs of the UPO subportment of the UPO subport and the UPO subport and the UPO subport to the UPO subport and the UPO subport to the UPO subport and the UPO subport of the UPO sub

> R Peel Brown Jpper Montolais NJ

Solt-Brain Decisions

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One that though on Hoover's 'holistic phenomenon' (a datament failly considdicted by numerous shades of hermspheric differences). Does Hoover senossly believe his Da Yince could have produced his missterphece or that Beethoven could have written the Namh Symphony had the laft acte of their beam herm cuit our?

> Tenence Hines, Ph.D. Research psychologist Boston, MA

Since Dr. Hower regards Star Wars as a downstankter of the sphi roam theory I would remnst him this Duth Wale way. Textuoed by the oths Side of the Folce? as were many dihetery a most rothings, and and common Heart Spenny Sproof of a dute consources the rothings and common Heart. Program scale they, between the original scale they, between the and that been as the new things and they may be rothings and they are the scale they.

James Morrow, Director The Institute for Multimedia Learning Westford, MA

The Presse of an Astronaut You can be proud of this magazine. I have read most of the inflates already, and zm impressed with the quality of authorship and artwork. It is absolutely the best magactine. I have ever mad. The report on

> James B Irwin Pres High Flight Foundation Colorado Spanos, CO

STARSHIP AND CANCE

EARTH

By Kenneth Brower

The intervent of our detained is appotuate expression is a constrained on the intervention of the sector attractions. That -sector for the sector of the common sector of the sector o external combustion. The baggast shocks bissobars were diesemed ups trymen would transfer eech bandhis momenum to hie craft, evening out the kurchyniste. It would have basen nomen die Feer hotsnas spacerarit resultacit, word have Itad off to oppertakuitaky. Chron's explosee programs outband wordt have been as brilliant authat of a small, errate sen, a true ethoding ster.

Several of the Circo scientists had made a second jump. They would not be adalated to be appoint investige, take the rest of us, who do our voyaging betware the owner of magazones (kern to one have strategical to make the voyage means have strategical to make the voyage haves they don't want to enture that any other strategical to make the voyage haves they don't want to enture the any other that sources on the pole that sources to the meetably any other to be pole to pole the meetably that yourns to the pole that sources to the meetably that yourns to the pole the meetable the meetable the pole the meetable the meet

The leader of this faction was Freeman Dyson (interveneed in the October 78 Omo) who playfully and affectionately calls people of his persuasion space cadets. "Dyson was Orion's chief theorem."



George Dyson is keekk to a spacecraft of another ional, roudeled after an Aleut Epixos design 16 OMM can as well as its report on the physics of the bomb explosions. He gave the project creditivity it would othernisis have lacked, for his previous accomplishments, in mathematics and susrium electrodynemics, were cleared, indeptably the work of a percentity in stochard genus.

I draw once with Dynch—in an internal controller—down a dark road in a fri forest on earth. Ladeed the physicial about his chilohood as a pooligy. Had he specialated much about his gri? had he asked himself, as a boy why he was as bright? Dynch is lace was wan as be bright? Dynch is lace was wan as be bright? Dynch is lace was wan as be brind to answer me

"That's not how the quastion phrased inself. The quastion was "Why is everyone else so stupid?"

At this! It thought the physical was looking rather pointedly at me. Then I saw that his gaze was unfocused and I guessed his was just guaring back to the black eyes and the isolation that seem to character on postinious besticates.

Balketing on it arrea, thas occurred to me often that Dysor's alternate phrasing of the gaussion might be a way to he cannear to his drive lot the stars. And for someone who, throughout hose list, has alter ways had to stop to explain his throughts might not the stars hold promise of easier, more intelligent communication?

George Dyen, Freetran's son, was liven https://wan.hts.tarkij/waved to La Jolia botho remembers have days with her nearla ware. Daffortin anglish, when her father and Tao Taytor watchhed the storge and discussed that moore of Juper liver and other places throw were soon to visit George sensed that something barg was up the sensed that difference in ho Tablet—T was like he was in low " says George

George harself was more interested in the Pacific The annual grant white magnetion passes of shore at La Jola's keys bods, and George bund that the lawlong works in the offftop days achool gave him a good view. He stole away to work him a good view. He stole away to work the whaties as offten as the could

At the age of ex, George's great inter-

father's creat interents, at the ape of sex

Hans Bette, the Nobel Laurestein der Beltie the man who figured out what

of Charlie Ferdeen, an oldsmar with a lot

In camp the accenters debuted whether

spant the day with Charlee Ferdeen, Ferclean couldn't move around well any-



The meeting came at the end of two months George and Espent in Torch Bay modern materials-Ifberglass and stumrum @listinstfiberolass cance had been for three days leave, and he prepared to

Fordeen often lost the thread ("Now what sides, George had grown up among the he was accustomed to n

Charle had a low opmon of almost warrest He was clear and most of the time

issary from civilization. It seemed mitacubarbs that Charke Ferdsen had given

At first George size the study this law.

Two years least | happened to be on mentor the physics Laureate, Hans Bothe out together George persenty was His 15-meter solling kavak baing dawater thereby minimizing turbulence George hadn't got the idea from the Chi-

"That's interesting," and Dr. Bethe, "It

The name rang a bell "And Taylor" I interlected, "was the man who sent

good student here," he told me 1 think

Bethe explained was a creat hydro-

student of Ashes -- sends my father to owe me. George, a regular reader of the / Chang, does not believe in accidents

Somehowit all fourad. His canoe had

Which Dyson father or son has meythat George is the operatered, by a thous

Or could both be noht? Freeman once two species, and following the technology George's species Homo new faber will contrue rasing sais to the more friendly words of earth DO

STAR OF THE MAG

SPACE

By Mark R. Chartrand III

Is a celerative close the case, really, not unities according to the opportunity of the celeration of the control of the control of the theory people who have all how the the control of the mappediar the local there accord to celera up with an according the case of the Bar of the Margo comes up every years of the time all over the Welderm world. It is a cose of typing to celefly a historical event up and addition to celefly a historical event up and addition to celefly a historical event up and the sky, increase as to cigar and is a bate.

²⁰There front insuring theores for the star final is supposed to have amounted the Christian Erg are that was: 1) a proper optimistic, 2) a nowal or exploring star, and 3) a mission for theory the added a downth that the slocy is pure might adduced by overcentus partitises to contin mandoint prophety. (Na map perconge of ancient heory was been determined to ancient heory was been determined and the start of the start of theory of the start o

Of one thing we may be reasonably auto Jeaus was not born on December 25 A o 1 The person who established our modern year-numbering system was the mark Derryses Esgun, or Carrys all withings of Centrent (A Alexandria, all withings of Centrent (A Alexandria, the State) wat of the ongoind Alexandria the State year of the ongoind Alexandria Cetest / Delay we have the emprove that the Perstan Erryn (or for one ywas suder his year name of Cobumb before being doclaves of Error (or for one years the obscience) the before the This Derrys was at least your years to being doclaves of the the of the the of the obscience of the of the state of the obscience of the obscience of the state of the obscience of the obscience of the state of the obscience of the obscience of the obscience of the state of the obscience of the obscience of the obscience of

The Falancial second test method the store start in the Wei Tasamer and in some non-this black tests of the same arms and the store of the store test of the same arms and the store of the store is sourced of data. Hence the Greek was alweed the the of the orth store is sourced the store of the orth store of sourced the store of the orth store was a partial loss and prevent Allorson of March 19-13. Hence of the very shore before the cardinal and the store of the store of the store test of the store the store was a partial loss and prevent allowed the store the store test of the very store before the cardinal and the store store before the cardinal store of the very store before the cardinal store test of the store test of the store test.



STORAL COLLEGE INCOME. WITH



Hand discrised the death of all make chiden less than hev years of uge, leading us to think that it was that long since the Mag had consulted with timi (and had discbeyed his orders to retorian and report to himt). So Jesus was probably born about two years before Hernd's death, around 6 is c.

The Bole says that leave gravets were in Berlinerin to comuse or baselon Lake people". That all the world should belteed: And hists was high mode between the the wass high mode the stratistical of Lake mode since Overnue all not become governor units a 5 or 8 Some modern schedur into the stratistical of the taxewas governor of Syna. This makes meet historical some is to a mode, and the governor of Syna. This makes meet historical some is not be to a mode, and the three days makes the to a mode, and the three days makes the to a mode, and the makes of the the to a mode, and the schedule source the taxetion at the time of Synamics has the to a mode, and the schedule source the taxetion at the

Continuation of the years of tastation carne only in the 20th call Lay, on Remain Lines uncovered in Ankara, Junky They record that one tax was observed in 8 e.C. Since the news took a while to taxed, and it took ptill more time for Mary and Joseph to journy toom Nacawith to Bahlahren, we can convincingly place them in Bethelmenn 17 or 6 a.C.

This would place the birth in the spring, but other records show that it could just as will have been in the fall Jesus was said to be about sor months younger than John the Baptet, and evidence exists that John was born around the end of March.

So why do we collabilities on December 25° The bast answer is that it was comeuhigo- A Roman page in hold by the Saurralia, was held around that time in connection with the winter solation. The suit stops is accurate with the winter solation. The suit stops is accurate with the winter solation. return northward once again—it is to born and a new year begins. Entry Chus annimely have adopted the class as a way of diguising the research for their own conferences. Cristman also been collebrated only from about the fourth contrary, and some groups still delebrate it on another date.

What was this "star" that we belowe appeered in about 6 ks -2 We must recall that in classical these although anything in the aly was called a star' of some sort. There were fixed stars, planets were wendering stars, contacts were havy stars meteors were failing stars, and novas were new stars.

The passage from Matthews gospol about the safe has been translated as asyng that the safe was seen? In the East "The could man that the Wegi were in the East when they hot zaw i (as they cartainfy were) or that the safe table was seen in the eastern sky near the time was peen in the eastern sky man the time of them. Scholars all disagrees on which meaning is contect. Cleanly the star leads

Among the possible "blank" we can subout metoors as too epherential and too common in the clear risesert share. (One astronomical wit has remarked hild if the star followed by the Mag, was a metoor it would have been the witchest carried ride of all thest?

An endyme in that Hend and his press administration the same mane they safe adthe Magna about in Ethan they were not good observed what is shard to be ever small the beginning of the month is lead by actual observation of the first creation of the encort of the star was some determined by a the set of the star was some determined in the event of no entered or motion as the event of no entered or motion as the event of no entered or motion as to the docessitien Magn who evere

Could in "sar have been a come". Could in the come included and one considered and one considered in the come and the come included and the come included in the come included in

There are, however, many instances of correts or novas recorded by Onernal astoromers that were not seen (or at least not recorded) by Wasaim or Middle-Eastern observers. British astronomors David H. Clark, John H. Parkinson, and F. Rahned Stephenicon claim the service swhat Stephenic and Their the same as to say, the same service stephenic schematic schematic research and the same schematic and the schematic schematic schematic and Applied. A nonvol is acculatly and bit some draw the schematic schematic baren known. Is would appear new to here and draws and the bacteria way height Another type of watching in a called and and the schematic schematic and and the schematic schematic and and the schematic schematic schema

The Protoevangekum of James an inlancy gospel not in the Bible, states that the star outshone all others. It so, why



More if a novib—a star that suddenly flanes? Nova above brightened 1000 times in two months

clash Henod see 12 No other source remarks on the brightness of the star, and so we are left in doubt. If it were bright however, there snould have been left behind a remnant descelable by moderninstruments. None has been found in that out of the site.

The most imphasmal explanation to the intervent to the construction of the intervent tipe construction of the intervent tipe construction of the intervent intervent to the contentiation Process. The second of intervent contentiation Process. The second of the contentiation Process. The second both rest suggested alterat 1777 by someone at the Woodster Procy bot Johammal Kaget usually get the const since the sport much them on the problem

A conjunction is a close passage of one defeated object near another Such events among the five planets visible to the haked eve are not uncommon, Jupiter and Saturo are in portunction mercy 20 years, but astrologically, not every conunotion is alke it depends on the part of place The Jewish scholar Abrabanel writing in 1497, states that the "small con-Functional levery 20 years merely anwars. There are "middle conjunctions" every 60 years, "great contractions" every 239 years, and 'large conjunctions' every history Finally he says every 2860 years. in the constaliation of Dispersi there oncurs a 'mehry conunction' that presages the birth of prophets miracle. says that trackton associates the constal-

As plants into a trough the sky as sen from each they move mostly each word among the tasks. As the each cabina to pain of passes thirm, however, they seem to move tackward, or weakered, in the sky Thai is cabid etergrade maker. In 7 a til both upport and before in the constantion of hans and there takes a start of the cabination of the passed classes to see how on Ways.

Justife and Staim are the model staint value planets in Response antrology, and thus the most important. The Magend thus the most important. The Mag-Both planets are into associated with the attains of tartes. So when the two cancels with a lysic, the was a major event, and can all which of tartes is not one but these within a lysic, the was a major event, and can all sub-call tartes in Mag to the memory anticipation of the Mag to the memory anticipation of the Mag to the memory building country and the Mag over the building country by other Mags over the two valuetion of the Mags over the washington of the Mags over the

The conjunctors of 7 a 0, when not inpocally close, or charmly not to choose as to blend the light of the two planets into one bight object i disculted somewhale that this could have been a significant agn until this pasts atomic when there is and social passed each other closely. Many people who do not incomally pay much astonican to the sity inclused the conjunction —and wen described the planets as looking like a pair of search lights. even though they wenned two holds.

So what was the fair?" The max we can say a that the best scentric resperstion is that was a conjunction of Juppier and Saturn Some think it was a nova. And some with continue to believe the sature was a metadio—an answer that is not an application—and thus outside scentric correcteration.

Like UPO sightings, the evidence is inaufliciant for us to know for certain DO

PLANT SENSATIONS



remain keeriy skeppoal abou demiting open twe communed with genariums passenthowers and Duecens massangeness. Even that Illiaorating back film Skerat Like of Neats by Parer Tompiers and Christopher Rind has fated to persuade ministra vegetable and concentrating of the devices in Ninh Symphony. Wilsout appropriate receiptor that phony Wilsout happropriate receiptor the nain to believe that plants are capable of such feats.

But there are two avertures of respecttopological particular to the second second depress photoexistence. Multing through the kenned suurates with the second three across examples from each the new second second indexistence (Norared necessary abilities will beyond care means example indexistence (Norared necessary) abilities will beyond care means are unapplicational for form receases are unapplicational for form photometric from the source on humble works well exclude a carbon depress, while an application of the source of the source of parally modern on to balant behavior.

First consider the strange results presended in the international Journal of Bornsteenology (Vol. 32 p. 103) by Dr. E. Grankou, who works at the University of Lyonin France Using triptly senetive oscignment: Dr. Gravinou was atteite to monitor the only messurable activity of seeds when in total darkineses at a constant jernperisture—the minute atmostri of anyono uptake necessary for their a jurveil

The results wave automating. For seample with new spores of tomato. Dr. Graviso found net only that experies outsumption levels in the momenty and in the attention found levels and the series fragment when the other was level tour even more supressing practice on moments occur, appressing practice on moments occur, the new and full moon. Surflower seeds betweet in a surflex way surflex way service was the new and full moon. Surflower seeds betweet in a surflex way.

Although the explanation underlying this strange phenomenon is still not fully underbock, there seems little doubt that behaving voice and luminose threftig processes of plants. Perhaps guarty is the prestured in lutack traven to vary with the prestured in lutack traven to vary with the moor's phases. Whatever the regulations foldes may be we now have to accept that heat light, and unimets are by no means the only factors regulating plant behavior.

The second paper that caught my eye was titled "Color Perception in Plants" surfly a Bustime concept to feature in the sober pages of "Rends in Biochartocal Senencer (Vol. 3, p. N204). Here is a cautoous Bintish academic Protessor Henry Brith of Notingham University, discusaring not with how clarits respond to koht



Lunar cycle affects life processes of plants such as the congreen optake of sunflower seeds

waves but how they expresence over Tag aggreease the novel notation, we that recall how haves react at all olight. Two subtaineds are involved. One is sensitive at the black and of the light spectrum. But highling lactics we issue tiltie about how it works. The detain phytochronics seems to be the sensor malecule that gives lowes the capacity to determining codes.

what rappets one. Prycerroma exate in two different forms that can be converted from one to the other depending upon the wavelength of light that attivus that bases. The first aboots red light most efficiently, the second musimally abootable locate wavelencits at the Interest and of the spectrum. Brow the relaxee propositions of the two forms of phytophrame are determined by the wavelengths (in the colorary of the light) balang on the plant, forms o containing these subtamenes can "monitor "the color of light summarizing them. Just as payments in our relation biol so that the sky is phytophrame give plants annular information.

Prefereos Bindh and His collegau Dr. Mai Haland Bao Kanor Hall Insuran (2004) A second bao Haland Insuran propose to all Instants. The continents for all wight bars as determined to the second bars and the second bars instant of the second bars and the second bars of the sec

The ability of paints in operative the cashly of the light is of praters in more fance incertain species than to obtain in some ecological incluses such as woodland. However, do not respond particularly updrough to varianzime in the physicdrome massive. In hetboorous hadrogs do not even with the posterior of centers with their posterior for surphreng centers with their posterior for surphreng centers with their posterior for surphreng centers with their posterior for surphrenge for s

As with Dr. Braavot's discovery, much more research is needed to dismuristic time more weatch annaxy abilities of plants, which unif recarity ware barroly known to east. Whether or not plants are really carpable of understanding which we say and think about themis still open to obbate-But one thing is for centam. They are by no maans the "wagstables" we once thought then to be DOI.

FILM

THE ARTS

The target back of the target has been machined by the target of the target has been target of the target of target of the target of the target of target

The 77-78 belowson sensor hav the trail using table of Tablen to the tome screan Produced by Renkin-Bass for NSC. The Abobt was the without a the new of Medda Earth, sating the image to the action to follow in the subsequent, more sophisticated Lord of the Finge Anmore sophisticated by parally invited to paperal suffered term a service case of babrenes and was recorded accordingly. by the onlice: Speculation graw as to whether a theath call feature tim version of the Tolken trilogy would turn out to be as abortive as. The Hobbit

The Boyes restory of Carl to the end of the second second

KE THE TALL ZANUA POR CA ANYON MANUAL OR TA TON AN EVADING



Bakshi Mined real actors in black and white and then annuated over the live actic

A popular de mater Hallon Tablets and popular de mater Hallon Tablets Angele Back-Hallan gineto of Browsbulk with Back-Hallan gineto of Browsbulk with fract the Cat (1972) and following toogh with Hallow Yahdh (1974) and Coerosher (1976), This polarows proved for the transmission of the Cat (1972) and Coerosher (1976), This polarows proved for the transmission of the Cat (1977) and Coerosher (1976), This polarows proved for the transmission of the Cat (1977) and Coerosher (1976), This polarows proved for the transmission of the Cat (1977) and Coerosher (1976), This polarows proved for the transmission of the Cat (1977) and Coerosher (1976), This polarows provide for the transmission of the Cat (1977) and Cat (1977), This polarows provide the transmission of the transmission of the Cat (1977) and Cat (1977), The Cat

Werk Recards in 1976 Baster medie the interpolation between an end of the table baster to be an end of the interpolation and the and the second and the anterpolation and the anterpolation and the anterpolation and the interpolation and the baster and the interpolation and the interpolation and particular the interpolation and particular the interpolation and particular the interpolation and particular the interpolation and interpolation interpolation

But what is notoscoping? "Well we take the takes and writes looping and mental of the south we don't went term is howyhing because on the south well term is hing because and the south well the well-well-well when we in through we have, in whech is defined line drawing have, in whech is defined line drawing have, in whech is defined line drawing have, in whech is defined and wellwell well well well well well and have any well well and well well have any well and the south well well have any well well and well well have any well and the south well well have any well well and well and well and the well product us in May any malad takes the throw have vessed to fail to a "

During a break in our conversation. Befest lied meinto his existing room and nan ten menutas of feetage from Lord of ane Ringe including Beatrim's death. If weas astonating. Though mout of the Rinn was fully animated an occasional aftor from Bakhh to orginal 35 mm black rend white version would creep in, weiting to contraverse rule to.

26 GMN



THE ARTS

nom Devedatus to Jonathan Seegul humanity has been haunted by fright it is not us subject to these urges. Before it was mechanically possible, poets and math-

Georg Gerster a German photographer followed Matsse's advice and has come back with staggeringly beautiful resuits in fes Papits of Discovery (Paddington Press, New York). The creation of an opic. Gerater spent ten years and logged some 1000 hours in the arrover 59 countries to take 88 shanning sensi by Geister is not the world seen in ordsphare teating in space photographed tone us. On second damps they malt be

swarm of parking lots in search of a city Gerster calls it in a caption) one sees per explacel shocks from these incredible all most extrate restnal, views of our planet



The New Challenge of the Stare by ous art book and a sober scientificand rewards to be respect seems only locacel and merely plausible. A really enthat ultimately conitol our our osky and,

Devideon's Devighter of its (Popular Library New York) Billed as a 'science.

even theology-fiction, but an epic of barrassing Neverthelets | encoved

Though the parallels with the ikad. Paradice Lost, and Moby Dick worked into novel of ideas that The Davatrer of is many excling concepts in this book thef I biotheology And the beroine, I must aclmt, is quile convincing, perhaps beto create a goddess than a human

Orbit (Jove Publicetions, New York) conand human psychology that only Stursleavy. that makes a Storgeon story unique oven his extraterrestrials are fiction. And Sturgeon's perspective on humanity is truly that of a mod in Orbit -Robert Anton Wilson

Besure to see OMN's special TV coverage of The Winds of Kity Heak!



Based on the novel "The Body Snatchers" by Jack Finney - Produced by Robert H. Solo

LUNAR BASES



I many discust the future of many discust the discust of many discusted and future future of future sector and future future future interview of the sector future fut

We must remember that conditions on the moon are folding laten: so that wrices structural materials will behave wrigh diflatently. We must also contend with the beneardous temperature range, from above SRC (2007) at noon on the equation dewn to - 121°C (- 250°C) during a right anywhere on the moon The danger from metaorities failing onto

The danger from neteorities failing ontothe riteou and cousting damage to any regr-maste ethicatives appears to bai very alight. Quite recently I sensed an excellent book, published in 1983, in which it was clarmed that any lunar boxer would rever to be built underground—or elistic be soon. battered to preces by the steedy cosmobombardment. But namelial manacrising fails are probably very rare indeed, and its significant that as yet no large failen melsiontics have been found on the moon.

Exploring plane base size of epende upon weble any usual management ballound on the moon. Arrophene weter and soot must be transponding each mataly Later on sincid be postbloc outweble plants invice the bases by techniques such as hydrophene laming, where plants are suppended in not above circularing legits that poevde the molected.

The Lock of annopphene, togothar with the arobic of guivery manner that the mobject of learns and induced the the model of the second second second second second at the winners and the second second second at the winners induced second second second at the winners induced second second



A hypothetics/ kinar base, with solar power station and material processor in background

From enth, splical entrarumeria are contentry plaqued by the labeliance and a mass at the absorption is a protient and increases and the absorption is the BDO-perindent and the absorption is the BDO-perindent (BDD-the) methods are and the assessment (BDD-the) methods are all and wave years cancel term to any factor and the absorption is a function of world prevent filters being suid, as it. Of the methods being suid, as it. Of the method prevent both special unification and method both special unification and method prevent prevent and the prevent should be the both special unification and method prevent special unification and method prevent special unification and the prevent should be the both special unification and method prevents and better and the prevent special between should be the prevent special unification and the prevent special between special unification and the prevent should be the prevent special unification and prevents should be the prevent special unification and prevent should be the prevent special unification and prevents should be the prevent special special to be prevent should be the prevent special special to be prevent should be the prevent special special to be prevent special be the prevent special special to be prevent special be the prevent special special to be prevent special be the prevent special special special to be prevent special be the prevent special spec

More reportant still is the fract that from each we can output yim a very hind part of the that intercontent with the Mohan with registric window, and there as altern from beyond each are blocked on the state of the state of the node with the state of the node in t

Looking further shead the notion attranction to table would be an observelogy on the tits used of the moon, where sheading forwards in strefforemost is complete When this will be established must depend upon which happens during the racif law depote but with lock it with estits and with other limits based, will be maranamated by using the communication participation with other limits based, will be name.

These are some of the advantages of a lunar base. Alas there are many clead vantages as well and we may not yet approprior them all CO

Adapted with permission of Taplinger Publishing Co. Inc., from the book The Next Fifty Years in Space by Patrick Moore (1976 by Patrick Moore

QUEEN OF THE UFOS

UFO UPDATE

By James Oberg

A concerning UP any other ways public or the states the public of the public of

In mol-1877. UPO investigator flobint Sheefte, garten all yregardolof ta a kitopload but righly competent ansiyet, published results of his own reasolution in the Ammy Caster agriting. Sheatfer was akina o determine the date of the event through resorts of Caster's apselding airgenerating, and found that while in Otto bar 1989 Caster hist mentioned the appliing (thus, in a report hisd face yours label), it exclude yours have taken place on Jamuy 6. 1989. Althe a speech right. at a Lions Club in Leary, Georges

Cardier had described a light "as bright as the moon" that seemed to approach and isocole repeatedly When Shaallar compared the silvaston and braining of the UPO Cardin described to a sky chart, he discound that the brightest object the pays that high was-the plant. Versus

The future price don't had reported that the other will research had been pretent by when Beasilier checked with many Law Cobs mentions, they prevently no Law Cobs mentions, they prevently no clock by one many status of the clock by one many hard been starting with Catrer after the pasch, remainbeerd the actual modert Hor eccounted how hard without a status to be been the actual modert by a status to be learn based becaute a status to be observed.

In themorcha following Sheatfer's announcement. UFO experts generally avoided comment. In fact, the UFO community continued to act as if there had been no inquiry or plausible ingeleration at all pelerandes to the "Jimmy Catter UFO" continue unability.



Artists rendering of Pr. Gel's UPD righting of New Galloca in which allens "waved" to winesaust

The Carter sighting would seem to be but one more intestince of the otherpresence of Varua in the recent history of historified. UPOs-

Versus visa nimed in borns of the goodease of basic your ab hielence in the evening and moning blees. For yeas law bornomers regardled it is "warth liven", participa in bogstable word much live our own planet. Bugscere procee (such as the ones scheduled to issue), here don't any Decomber) have dostroyed the inneary 1000 alignmes Patientet a unit of charging action during a half warth and therease and pressure greater than the burnet, and pressure greater than these burnets and pressure greater burnets and pressure greater burnets and pressure greater burnets and burnets a

White has been hell for UPO investigators, too "No single object has been imaintegrated as a Thyrg sauce" more often than the planet Venus, wrote pro-UPO theored Dr. Jacques White Wenus plays as prominent a role in the generation of UPO reports if has been humorusly indemend the queries of UPO a

It can be diffusit for a naive abserve to approxibilities easis of mapprocipion of Venus Librarily millions of UPD aphrage have been touched of by the pANNI Venus eccording to statistics from the Canter for UPD Studies (curche) in Eveneton, Mings: These include reports from automatic picks percomment automatic picks percomment of berns, and as we have seen a latere president

But UFD investigations through yeers of experience income that Vanues, and ining brin learthy learting below appearing to durit back and faith of to applie videly contindeed give nuel to taxeter reports from inindividuals. Other, the ourprise process of human estimation within a strategies of a linear estimation within a strategies of a brut many webbases thromgeving alterwards enjuged to access the Venue's estimation.

We be collected a serve of U-O Descriptors mediating out to be of the planet Werker Round object, size of a dime emitting beam of light? "Itings merklockyect, brittent orange, even for drive hour", "ogar-ahaped object, size of a pea at contenue or were to



We are Rockwell International's Space Systems Group, developer and builder of NASA's Space Shuttle Orbiter.



CONTINUUM



ride goeth before a tall

in the care, the fail we are all worried about in the 84-ton orbiting space station-which may de-orbit before the year or raul and spatier hawrenceare over a 5000-k/ometer-long

When it was put into orbit in 1973, Skylab was hailed as the works a first space station. Three separate crows of astronauts 83 days at a time. Skylab was a huge success

into the earth. Most satelikies burn to ashes long before they

Like the Bassian satelide Cosmos 854 which disposed radio

Not only will Skylab's footprint be 5000 kilometers long (about could be in danger of man-made meteors smashing out of the

NASA did not foresee this potential disaster. The space

mum of strrogoheric drag. Even so, the craft has dropped 25

But Bream's Breat Assent Establishment (BAE) challenges

and many other patelited

Publick, NASA hopes to have the Stuttle fixing orbital mail signs by the and of 1979. But privately officials admit to grave In word 1980 at the earliest. If the RAF is notified and Sociali st

There is only one poesible answer. We must swallow our ne

tearns of cosmonaute to these stations for measure that last G P Carr, E G. Oxbson, and WP Pogue. set in 1974, was shallin Merch 1978

rocket to it, and move it into a safe orbit. They-and perhaps

If we truly mean what we publicly espouse about outer spisos than an arena for appressive competition, we must ask the Rus.

Or start digging shellers

-BEN BOVA

CONTINUUM

THE CANCER SCARE

CAUTION: Det toda hur dyn, sieh new wint painhachamburger may be hezerdous to your health it hezerdous to your health it newspapeen report that see entre to have ansokaad you and are common aubstance aussing cancer But there is no cancer Repdemic ² writes Dr. Richard Polak in the Augustase of Flosten magssenei. Associating to Polak one of the greatest Polak one of the greatest panne? Poliak attributes the scare's oplant bad scenner, netably failure to take into account threshold levels of substances in recessing to cases octaner. For campion a human baing would have to drink 800 12-ounce det addis per day for Alvito ungost the amount of socharme that produced camcian tests with noti-

This too has been a fis rant problem with the mes test, the most com-



ver Bubliste

la haveburger caroinogenic? Tasta www.doine.won.ab/orthill.cose5

failacces of the modern age is that cancer is on the rise because of industrialization and the use of so many anticeal substances in products

"Canaber is not a disease of inclustral society rays Pellak "In fact, the unit humbier of canabers that occur throughout the population net official society and a society of the society and a society of lang canabe, whose increases is occurristic directly with the increase in caparatio another "

What has propagated

chapting substances set connegaria it was the Amastead, for example, this mercebalogial Barry Comment used to index the countingen in this statu, and discontably vacation discontably vacation with high closes of a support discontably vacation of the following of a support barry count that there is "which count that there is a support of the following during that the effect of they does not a thermost low does of that chemical The effects of that the time accession of the the time accession. The U S Department of Labor's Decupacinal Bainty and Health Agency's taxoning possis that would enable a coldina' possis to access of the Arise star and of the calcimogene" on the basis of the Arise star and of the chemical possis and of the possis that would enable a chemical possis and of the possis that would enable a chemical possis and of the possis and the chemical possis and of the possis and the possis and the possis and the chemical possis and possi

SMART DINOSAURS

If chroasurs were prebrained lumbering giants, is we have been taught all our lives, how then did they dominate the earth for more than 150 million voors?

According to Stephen J. Gould of Hervard Universit dirosaurs were not small brained after all. They had the right-assed brains ho told New Scientist, for repHile of their body size Boda's circle voice, shureand resinguence. Records and resinguence. Records and resinguence. Records and a size out of the control under in index to size and a metal size out of the control index in index to size and a metal size out of the control of the boars new of a dimension be boars and the size and the size regime of the size and board of the new new diab doment '10

Hopson determined from his findings that the EO system corresponded with vanous dimoseurs, sigility and other similar second, for instance, hisd the lowest EQ 0.2010 0.35. Much like the elophant Biomosautiases probability used their



wassessue held 'EG' advantage over borned edversery

36 CMM

enomous eaze for obtense agarnit prevatore. Ther risk EQ value more than sufficient for this form of passive doferese. But in the case of the overablogeners, the great hormed directours, there are there all represents the term EQ value valued from 0.7 to 0.8

The greet carminons, such as Tymorasuus reveand its relatives, were much higher on the EU acale than the hertworkus Brothaaus and coertopsans. They were agles and queckmoving predicates, using their groute Intelligence to casch alticult prev. Althe way top of the scale were her small coefficience were automatived with their standard with their standard and guidant of fundance were possible thurthe water possible.

For the past 200 years, patientologisk have pastdered the question of while could have preophated the obtaincort of the dimension But as Gauld parties out, what is most perpleasing is not the fact that dimension became existing, but mither, that they managed to surway for as long

"Philodelphie will be a suburiof New York in 20 years." —William Baldwin, President of the Long Island Raktoad,

ANGER OVERHEAD

The S20,000 kitameters (200,000 miles) of highvoltage transmission knes that cross-cross the United States may be damaging the health of the people, are mails, and plants around them

As early as 1962, Harepan switchyard workers wona found to suffer loss of appetite, fallessmese, dimmethed sex drive, and headleches from proemity to power reading the electric industry is is listing transmission. I may commit than ever balance to be made in the electric of the electric handle the output from its prover plants. And a matteritten dollar research electron means will be tecpolarig mice make tabloome cover, popy, and other any matter balance the polarig electric heldo



Fluorescent tubes of protesters are in up by furth-voltage lines.

nos where they worked innits results were rerorted in Spain

Recent U.S. studies allow that very high voltage has could interfere with some historyacemakes. Strong electric helds have been found to dampet helgs of electric the some studie encode the dampet seep. On dry days, electric fields can indee the hear on a man's block stand on end as he welks under the lines. Yo: the evidence conflicting Some studies allow normalaunteen il electric. versial case, the New York State Public Service Commission ordered as increase in the size of buffer zones around new highvoltage times to reduce possible roke to neerby residents

-Stuart Diamo

A Californie socialoget has found e busine contect lon between asplane crashives and highly publicized murder stonie in which the kaler commits outcrate shortly after his crime David Philos of the Linsensity of Califorms at Gan Deep found that tetal Collabers of private: businreas: and corporatesexective amplanes: increase after publicitized munder-saccides. Not only that, but the greater the publicity, the greater the publicity, the greater the publicity, the greater the

Prifips speculars that applane crashes may be a concessivel form of murdeesuicate. Some plets. The faurne, may deliberately clash their planes with pespare there acts of victence accessing to protect their tambées from insurance protections and access sharms.

As stringe as Philippi Indings may seen, earlier studies show their both submobile accidenti and sucress increase after public citized subgrets. That would subgrett that all least some subcrobile deaths were in fact diagraved subcrets. And like mobile value is table as singtime factories as so a sharp peak three days afto the public subcrets.



iane crashes. Secret salordes?

CONTINUUM

CITY FALCON

The United States Fidelity



But, immediately upon

mate from another plutch of

loased nearby Understandfalling pigeon wrigs. They have since been legally de-

FASTER THAN

acarbed in a matter of sec-

trino interacts with a chlo-



Brockto yor a gold mine. Catching revenues in phy-cleaning plant a dee in the framet-food sec-

coated with fibenclass and

has been employed for dec-

tions of supermarkets Schlussler wants to bring it into the home

Lieduc syngesters serie as the language users of enony other electric space and not well heeters in Califorme, for asample, Tricipes now account for eight persont of the state's consumption of electrical energy. This sould go down to hee percent of electrical energy. This sould go down to hee percent with horsontal models—a savings that could account for more energy here a proposed Califormia ruciberg plant.

"The Americana have need of the telephone—but we do not. We have plenity of messenger boys."

> -Sr William Presse, Chief engineer of the Ercah Paul Othos, 1876

PLASMA JET

The car of the loaner may son whou's gent public using indicated something called the public something called the public something of the power of of less gas of the Englishers at the University of Callebrards Law encode Bertraley Laboratory UNI-something Laboratory UNI-something Laboratory UNI-something Laboratory (Life-cover found that the poster hall increase learners) the origin to be used theoreticne allows a learners

While sutcrnoble menufacturers have expenmented with bunking learner motures in the past they've been theirted by politiken problems. A learner fuel findure introduces more arined the cylinders and results in more unburned hydrocarbons







hasina jet grados i vel in cydrictar Ime elapaed from sign to boltom heto was 40 militiseconds

This is because convenonal sparis plugs upnte the ball at one point only. The obtains device inverveir sends a jet into the cylinder to grite the mickare at eeroral points burning it more horoughly.

Penhapa more important than the plasma jar generator seelf is the photographic method used to study if. The isotheres above were taken using a technique called "software photography in this method, high-speed semants take as many as a million photographic per second to capture this collicustion process stop by step LBI, plans very shortly to use schlaren photograbhy to exemine the cristent urbulance of tell engines.

Landing and moving aroun to the mousi offers so menty across problems for human beings that it may take apende another 200 years to lock there "

-Science ritter 1940

ACID RAIN

Bob Dytanti song, A Hard Rams Gorna Fail is Jakag on an cennous signt loance in the exent of United Bakes. This sector gly closes the sector gly closes of the sector gly contain weak marks and software acode that are becoming storage with each passing year. The anota was formed when safbrand integration codes from power paint stocks metal limitidays and cas talgoppes combare with raubering Amough the spinner time Admough is Mountary and applicits. Now York are may developed interface time balances for another the series and any provide in the series full and any priors. Some scattering assessment they now, have subble lossing assess of how subble lossing assess of these any other lower times.

Batto Phil (1928), site access the exist or accession in the Northsaad has in crosseed more bettor to if a rest in segred to the start of a rest in the second times access to in some holds, that access to some holds, that access to some holds, that access to access of the access to a strong subtancial act to contain a model that access to access and so that access to access and so that access to contain a set to access to access to access that access to access the access to access to access the access to access to access the access to access to access the access that access to access the access that access to access to access to

What can be done about #⁹No one is come up with any solution as yet—sheet of eliminating power physics smallers and automobiles makes a —Start Decord



ENDM. OPTIMA PRANCE OF BENTING THE TIME

CONTINUUM

EINSTEIN'S BRAIN

Whitever happened to the brain of the most cellsbated genus of our time— Albert Ensteen? Reporter Steven Lowy of the New Jensey Monthly has traced its whenabouts to the office of Thomas Henry medical sup oursect of a befoggeaf labobtory in What Karaes Enstern's brain is being astroation a jer of formatehyde in a carabeard box merked Coste Coler under the bate cooler in Harvey's office

When Harvey brought out the basis for key to see, the reporter rase to his feat only to serk back with his chair. appechasis I is Lewy's own words. We great water food upon hist par as lithed to comprehend that those pieces of gun's bobbing up and down has coursed a reveluon in physics and quint possibly changed the course of changed the course of changed the course of changed the

Although most of the biain has been sectioned.



Evisionio Under a Geer coole

and given to various scentots for study none of herhove yet published their tindings. All Harvey will say is that the savarifs brain falls, within normal limits for a men his ope

Many pointest teol that the physical examination of Einstein's brain will provide few claves to the socrat of his genues. The brain of Karl Frechot Gauss for example, one of they brain chacally examined was found to be cathered in weight, shape and sace to that of an orthany day worker.

The key to apectacular in teligence does not seem to reside in dead house—the bhans of monors have proved to be virtually indistinguistibile from those of intellectual gambs

TEST TUBE GRAP

Find came the text table control face approach and now acties the text table grape. Whilam II Kould at the University of Phodol Island the successful in change an ethic why and brain a singlocal Athough his amelitical claring serrers to applicate Athough his method of claring bread of photoworks for only can be bread of phototable and application of the cost of the of the ancessful instances of claring is "beody plant".

Krull is professor of plant and soil science trankly ad intertrating part in the Sevel opment of the new cloning technique. An induridual cell is taken from a surply operand part of the plaite such iss the steen, and plaite such iss the steen, and placed in a medium ocnlaining nuthers's sugges vitamins, and a corringensal wheet lear that in low conclatinisticms activities as a growth stimulator or hormone. The cell rapid y durindes to torm in arromphous kumprike most from which cells are estimated and plated onto a new medium origining the hormone rapithulates beach and its bage, thry embryos suddenly begin to grow from the dividing cells.



GEODENNES WOOLN ADDRESS

It is these embryos that give rise to new plants—exact genetic duplicates of the parent

The claning technique may have important consisquertoss for the wine indualy. If normally takes a graps whethree years to produce that, but the cloning, thouthat but the cloning, thouthereas pervently area year. With cloning, thouthreas pervently years and hitmas pervently years and nessured to develop a good stock by the common

KING TUT'S SECRET

Although Howard Garter clacovered Tutankhamen s tomb in 1922, the full may be the second to the second series and the second second until that a century lister. The key to the real riddle was destined to be a group of hereaglyptic symbola appearing insale the subre carbusche, or noyel nemobaerno y oil a

In the inscription (terror duced at right) hors to east special use the wind to nght application that to nght application the wind the special provide the special special special metric arrors kanneds for infer and the collection dependence of the special specia

But inconsistencies in this interpretation aroused the suncesty of George Michanowsky author of The Once and Future Star who points out hash hieroglyptic tequently appears already requently appears already appeared to the young long as Lood el Upper and Lower Egypt. Why, then should the Inscriptor. on the regist autouche upset the length autouche upset the length autouche upset the length autouche upset and lower and autouche up-

The meaning lark was appendix the attention of the souther attention and the souther attention of the southers in the southers growed over the southers the southers attention of the southers attend attending the southers atte



Moharowsky and Ail's rowbut

NUCLEAR "ACCIDENT"

In December, the federal government is achiecked to cause an accident in as Idaho nuclear reactor loaded with radioactive fue to prove, among other things, that the sklety systems with

This \$500 million Replayer-funded project, conceived by U.S. anergy officials about ten years ligo, is called Loas of Fund fast Facility, or LOFT The. It is like taking an aircraft out and challing it serveral times to see what happens. The plient close have an overall backup safety system designed to activate automatically it something open writing.

The delicerate accidensit have been caused so far—all without nuclear fael—all the reactor. Four times, the select sorterns worked perfectly. Once on of the times emergency booking Kristerne failed due



The Idaho reactor: A \$500 million accident is about to happen.

academ will include depreright the number last of the cooling water, to check the tackup cooling systems. The relation is located at the construction of the include systems of the construction of the construction of the size of the the size of the the size of the si to an operator error.

There questioned in Mucl Lake (population 200), the followed community to the laboratory (18 kiformetain), last in particular damps) last no particular damps) who there is any timest at al.," seld Ellen Secold, a Council womain. "They know what they're damp out there." —Susri Dampon

LEVIATHAN AXIOMS

Astouncing facts everyone should intervate whates (Coracea) 1) Whetes are probably the largest creatures who have ever lived on earth 2) A Blue whate is begger than 30 elophants and weighe more than 2000 people

I) A Blue s heart is blmost wo melers (socioe) long ind weighs 540 kilograms 1200 pounds). A Blue s origus weighs one third of som

4) Some arteries in whales are so large a small child could crawl through them

up to 20 knots and can paos aros ocean liners

5) Humpback whales mate by leaping in tandem from the water

7) Whales once had herr hind less , and outer ears

8) Whate similik is four times as neth as cow's, and a femate Blue can give 494 Ltimes (130 galane) a day 9) Whates' Spperad canossis and love pits can be been at the time time.

hers (50 miles) away 10) Whates will support a sick or wounded animal, frequently one of another



to Litel its has and legs

CONTINUUM

LASER TAILORING

Space age technology has even begun to affect the int-world critit of laidoring Computer conitolied leases are producing custommede suits that can be ordered from some 50 stores across the country.

The procedure is simple: The customer selects the syse and latence of the suit He at then carefully measured and photographed in firent of a protoport measurements, including toget measurements, including toget frent, back, and construct weak. That the company that created this company that created this company that created this The factory, this firm a dwellback and make the a globes alkade. This side is proported against admitted method against admitted method samklander of the careful notes on the careful notes on the careful notes of the careful notes of the careful notes of the careful notes of the notividial is pattern on per in regitm mutues, is alkade and the side and the notividial is pattern on per in regitm mutues, is alkade and the the side of the laget has would carefully.

The cells is kept on the to two years so that the oustorner does not have to be remaisured each time he orders a suit. Phoes start at \$250



Torn Apple defendent of the way special office to a location.

SYNTHETIC POT



AND MRS DOL DUE OD BUIGHERE

A synthesic manytana derivative may be on selewithin two yeers; according, to the Food and Drug Administration. The drug, casted Nathlene, is a vanetion on FHC the compound that group grave is help. But Natarbene the FDA massis does not produce such "Unformance wide effects" as a compound to the select as grantal a work vehicle of against a work vehicle of against a work vehicle of against a work vehicle of

At the University of Chicage ophimitratica, at Frank Newell has toted the durg in 20 gatecome paternis chosen because there disease had resisted conventional treatments. The result: Fluid pressure in the opy dispept more than a finiti-protectily enough to when the proprised years glavcome worknes.

Psychiatrist Louis Pathe who run a Neuston mental heath clene, asys that Nabi lone is also a potent, cuickscring arti-ameety drug. His gave the THC analogue to 20 patents and lound them relaxed in only three days Arosety drugs now in use take a week or more to benome effective. And accounting to Dr. Law encye Enhann of Indiana Umwenzy, Nabelene prolects cancer patients ing betar then do current drugs: Severe scorning, a size effect of most amorganize bei ogentis causes many patients to strap out of charmabrany fail might

Backet to data have been too seal to allowing contopers points our pharms polygial Robert Archer, who is owneous chere the arching stand. Nebicne will point the adde that "as things stand. Nebicne will proteety be the beat drug awarable for cancer and bacrome potherts."





The standard for the characteristic stage traces for the characteristic stage advise of the stage advise of the stage of the stage traces are stage to stage the stage of the stage the stage of the stag





BY ANTHONY WOLFF'

Only 75 years ago this monit, on December 17, 1903, reamber 17, 1903, The Whysit to rothers' hometown paper (below) was one of the two to note the spochal achievement. Today with the whole world watching its teet flight, the Space Shuttle (left) is posed to take passengers on commuter flights beyond the six





THE DECISIVE MOMENT

"Human flight is possible and practicain May of 1899 despite centuries of evdence to the contrary Just after 10:30 A M pri December 17, 1903, the 12-horseonwer wood and-cloth Wright takepti run down a track of two-by-fours Outer Banks With younger brother Orvite piloting, the plane climbed willingly into a helping headwind (right) The first of the days four flights listed 12 seconds, covand one half years the Whights had correctly perceived the fundamental probmachines Their 1902 glider (above) could be perfectly controlled through linked wind and rudder adjustments. lacking only an engine and propeller to ophieve practical, powered flight

The register of the SECE Weight pilote (above) were back for CTT alweyrers of where calculations are the annie on any of the Aringst. An appl. the pilot of the Carls higher was much calculation for the Magnetic over pilots pilot in (pigation area) and calculated to the Exercise of the Integration calculated to the Exercise of the Integration of the Carls higher the Integration areas and pilot the Integration of the Integration pilot the Integration of the Integration and the Integration of the Integration of the Integraent and the Integration of the





PURSET FLIGHT The North subsisted from the sun. The power state of year motion, but we will be a first year motion. The subsister have a subsister of year motion and the subsister of year bit years the emerging a bit we be a bit we will year have been emproved by the subsister of years and a bit weight pervice in the first bit we be a bit weight and weight pervices in the to be decorrelations and a lense hand turns, using the rought as the to be decorrelated Listering and elemting pervices are to be decorrelated to Listering and the Weight as

After creating, out of control, us one of his block-wrog plates (right) in 1690, Oto Liverdale dying words were: "Boutleast must be nave". Modern here giblesupter stranger, meas any only that Liverdah", - as an sky high words for Manason day, fire right, baj and Snowlins. Usin für night bastering be night da wroth. Retterweight sagehanse garde samtly one viewment (night an zight, night).



THE MILITARY MOTIVE Almost from the beginning of manned highl, military necessity has been the

The data constraint investors in the state of the state



A cance sucked production and on his way. Mitch Weight Mitch over white in 1028 have save white (mold) of The speedy Freech Speed Alless an edge on the Gentra Folder in 1016 of the save save and the Gentra Folder in 1016 of the save save and Alless and save of the his molecular in costs and the save save save and the save save save and the save save save save and and 31 Obdew, bottomithe molecular incode into the molecular incode into the molecular incode into the molecular incode into the molecular incode and the molecular the molecular incode and the molecular incode and the molecular incode and the molecular the molecular incode and the











HUMAN CARGO

In 1911, as the vintage respective (above) exagensiti-from the basenspective (above) even the loss a safeta basen we have a support of the same and the same and the vintage of the same and the same and the vintage of the same and the same and the vintage of the vintage of the same and the vintage of the vintage of the same and the vintage of the vintage of the same and the vintage of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the loss of the vintage of the vintage of the vintage of the loss of the vintage of the vintage of the vintage of the loss of the vintage of the vintage of the vintage of the loss of the vintage of the vintage of the vintage of the loss of the vintage of the vi

The obta-backloff for follow)— the for forcontrol case of the all-control page opticomplete-ins Net Jennes B. More, classings with ever particular she's lubrest B. More, classing "Network Denocational And The Theory's Brokh-Prench Denocated Infil particularly-specing passing and Network in planes at Methy — 2340 kg/d (No Traylor)— and Shore 20 minutes Nety paramago, Lincobargh methy B. Saleway, D. Innovation



TRIAL AND ERROR Even with the best tools of toolay's science, and with the accumulated expension of 75 years of practical availant, avoialt designers still can to regict exactly how a free fright Today, aeronautical R&D has become so expensive that only big sats, however, in a few maverick inventors who out-invente the gunts with designs for flight as radical and elegant as Burt Rutan's 260-kilogtem (380-pound), 288-kph (180-mph), all-fiberglass ker-Los (for right, boltom)









Kite Bying their 1902 gilder (above, left) the Wegtx's reacted she validity of their new verbcal seeplane (scove, top) Wing and water Van-Lize (scove) to Ry with upturned wrighter for high #8 Its speed officially describes any as 2000 mph plus" (3200 kph), the YF-12 (left)











REACH FOR THE STARS Even is the Whyte were conjusting Tradition from the tradition of the start of 900, a will asyst vectoring Tradition from the start of the start and the start of the start of the start of the start and the start of the sta

Amonon notati possa Material Gadeda di Stragenza forma di Stragenza di

COUNT THE CLOCK THAT TELLS THE TIME

FICTION

He became locked into a traless zone inhabited only by those who had wasted their lives. BY HARLAN ELLISON

where the second second

of the attention, and the word outside in is wholewe was book and cloudy "Where clous the time go?" he sid He was above, as always: there was no one to hear him or to answar So he continued jung there wasting time, teeling veguley fightened As though something importer were pleasing him by

PAINTING BY MATLIKLAPWEIN



A by buzget hern, orched buzget him, again it has base uncoment am for some time hel inod to groce her struder moti adapted biologic locit humen to bie annanng the homes of the Octable to bia annaning the market on Whith's distingenuous adapted and the other adapted bias and the other adapted bias and an inor soft to any open to bias and and the other adapted bias and and and the other adapted bias and and adapted bias and an inore shift bias and and adapted bias and an inore shift bias and adapted bias adapted bias adapted bias adapted bias adapted bias adapted bias adapted adapted bias adapted bias adapted bias adapted adapted bias ada

Porthology are not beautiful at this time of year is the add later the time to beam to screatures the names-Schreitalian K1locorelie. Pilototry Aberfieldy—and had come beau to at. The diream The one har add adways held intert close to her unspoken in the direct activity the diream of graph to Bactitani. For what reason his could not say, But this wait the place that had devegs called and the had come

For the first area in his life, fait Ross had done something Thirty-seven years old rooted to a tiny apartment in Chicago WItually friendless, working five days a week ledon with a line-cont ink peri, unable to remember what had happened last Thurs-Wednesday seeing himself reflected in the window of the cafeteria slowly eating the has skin that it was warrier or colder-never tasting joy because he could never remember having been told what it was read that taoling a transient man passing down those streets thinking water and apple was speaking buying gray socks and demon wind off Lake Michigan ratting the ded within a year of each other and both from calloer never having been able to to any woman but his mother I lan Ross on the hill

had lived his life lifer the dual that lay in a tim scross the unseen top of the tail ward robe catenet in his bodroom colories. Un noticed instituuiate neither guing no' taking

Until one day he had said. "Where does the time go?" And in the months following those words he had come to incline the hild not in any tempthy valuable manner herd his life. He had weeted it Micentin after the had words came unterdaen and tremulous he admitted to himself that he had weeted his life.

He encoded to actuation at load the one determ To go to Socialized. Perturbates to Inva-To rent or even taxy a conflar's colfage on backs he had determed about. He had all backs he had determed about. He had all backs he had determed about. He had all backs he had determed about. He had be backs and the renth he would hav senting the his with a dog by his sold senting to per had traited a fragment perrural blave wither ample a hard period.

into the pockets of a fileco-fined jackat

And those Kings Cross Statish the heat back the 2028 services to Scherkungh, and services and Scherkungh Control (1998) working and Scherkungh Costeller high on the Mitter working the Inter back and and heat distance scherkungh. Costeller high on the complexity of access that heat distance on the first and the back of the cost of Fach on up the Adold II has too head Placeting. The first heat and the back of the cost of Fach on the first and the back of the cost of Fach on the first and the back of the cost of Fach on the back of the back of the back of the back back of the ba

And there his haid polled off the road gaterious of the car leaving the door open and walked away down the October hild to finally at storing at the Loch goals and blue and alkint as the mirror of his memory Where only the buzzng for immided thin

He had been 35 when he said. "Where does the time go?" And he was 37 as he sail on the hill. And it was there that the cheam clear

He stared at the hale at the valley that ran of to left and right, at the spanking water of the Loch, and know he had wasted has time again. He had resolved to do something, but he had resolved to do something. Again

There was no place for him here

He was out of phese with all around nm. He was an all an object. A been can thrown into the grass. A broken wall untended and falling back into the earth Hom which it had been winiched slote by stone.

The first branky started increaselse of decining the framework or dealing the Bittet A run turn another works table at the Bittet age and dirichly at that was not be to drive. These were no tests to paths in the body to deep und theriting signs in a moment with sity buzzing the down ideal for him. He had been asked that in body come man instant to understand they have a site of the site of the site of the body of the site of the paths with the site of the site of the grow up? Nethering, Au I have dways been rethind.

The sky began to bleach out

The orbingly balautiful golds and anging and yolkes begins to brit bankin separation of the source of the banking tableness like an inacity properties and accurate to back and france available and meets tabled the gain turned down to the source of backs and france available and meets tabled the gain turned down to the source of back and an unread the meets tabled the gain turned the meets table the source of the source tables and the source tables and the meets tables the source of the when every prior tables and new meets and new service and new

Shadows began to superimose themselves over the duily mezzoeril of the bloodless day

A dog of peers and markets is down in the second s

be Ropa sat frozen on the hills de The workd was dying around him No. It mus versiting being out dematemaking Acif all the sand hial run out of the hourglass around him ai if he were the only perminent fixed and semulable object in a reversion available of


A FLYER FOR THE MASSES

Half go-cart, half air mattress, it's the Model T of the future.

BY DENNIS MEREDITH

When John Nitrolastees little safer and even sumpler to operfiving machine lifts into the sky late gaze is transfixed by a hometical engineer asking about made averalt that resembles a plans for the little propeller drive spicler hanging from an air met-

liver and the paractutelike device that cames it aloft Dur-Conceived and built by its ing fight though Noclaides is ptot, this unlikely-looking con-usually scruminated by another traction may sperk a revolution kind of spectator, birds of all in available for the masses it's a kinds wat him in mediar throng to revolution that would enable us figure out whether he is lood or to seer through the skies in fiving the Perhaps the birds are wormachines costing about as ned that people, until now safely

ing machines that stayed well above their airspace might Alter light, a lascrasted suckapon be exposing among them aeronautical engineering de-California Polytechnic State University spent 14 years develcano his fivino ar metress collect a 'meratival "Ho helesson d is now perfected and ready for spolosion. The device is by to induction to percenaution The 55-year-old engineer developed much as a motorcycle but far relegated to large, enclosed by- scientific and navigational satel-

Noolentes has looped over 100 flights in the living. parelor, a selicisti A into an aerodynamic shape

tess antitark weapons guided missiles and other mistary handware

The period based on a small field color becaust to kineside by inverter Domina Attent coverses of a posteriory shappot from ownmany used to pasteriorited bits open at the toort so theil the pasteriorited bits open at the toort so theil the pasteriorited bits open return influes the investope inflor an aostdynamic stape with the same properties of that an any prime with the same properties of data. Develot duy a smosterable in order from many that the partial by or colds be bait and out one then one

For a few thousand dolum, we could put out a marching that 6 doll be down to work in the motioning just like a Cat''s says Noolaidis. "When you wanted to the you could just take the parallel out of a lobbar assemble it and by in othing your able that you get in, and gun the engine. This presidual will instead and and the ground like a two taking you into the air a few hundred feet." We said

Integrat picts need manonze only two contexts to fly the parafield. A steering bur attached to a near rudder maneuvers the cash lefs and right, and the engine throttee context attache—open throtte moves the arcraft upward, classed throtte moves it deerward.

Is the type safe? Those who are used to wrigs held in shape by networks of sturdy grades and ainste might balk at the idea of depending upon a piece of olders to hold them up. According to Noclaides, though, the peratol is in mining whys a sturcher using the the one on your favorate 747.

"If you breek a stockard member on a isothional werp your en to boote it he saud-"but the parabol has no ego structural members to break. Its maintained by the packing process all the open linking edge, which will always cost as the parabol gildes forward."

So, in effect the period depicts on base of physics periods a stronger supportion any grider as long as there is an to millias the very and latter is minor or gavhy to markaning pilds twill by The load on the partiel is also indery deministrated very the terministry of the minor deministry of boolaadies, under minory controls. If this is boolaadies, under minory controls, the own shot bit of housing to participe will even shot bit of housing the participe will be minore the participe of the stronger participe.

Additionel safety factors include the slow speed of the craft about 25 miles per hour, and if the motor guits in midair the paratoli represents an already-deployed gilder that can give a plot miles of flying room in which to find a leader about Necessides inmost is long proof of the parallofs allowy He was the pencicipal lead plot during its development logging over KO lights About hair of these were what engineers might poly lead in suboptimal — Necessides has landed every way megnicile. Including upsole down and has beken pair about overy pair to the orbit at one time or another.

Those early instalkes came from giro name. The says. When there are no an even in the back of the back you put have to go though the Edisorian trail-and error method. When Tigured out what I was doing wrong, the answers seemed obvices?

For all those metakes Napolades has suftered nothing more than a cracked tailbone and the treatment consisted of little more than a law months of using a pilow when stifting down.

Now Noolaides, and the many apronautical engineers who have reviewed his work and loand it impressive feel the flower ta an

 The introduction of a safe, cheap "pop-fiver," whether Necolades's or some other device, undoubtedly would after our society, as we are transformed from twodimensional travelers into three-dimensional ones 9

mmercy safe machine—and a lark to the The particle is contarly soft than the sport-flying disclose confirmed the capacitying disclose confirmed theoladides white the safety is protocol to a percent software and the safety is protocol to a percent and the called the safety and the memory many software and purmer to set help and the called memory have a called the safety and purmer to the called the safety and the safet help of the called the safety and the memory here a called the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety and the safety and the safety here a safety

They be partial in the strategraph here only immain "app Neclastic lab. Inter only immain "app Neclastic lab. Inter only immain and the strategraph of the strategraph of the strategraph called they the benefit year lab. See they and a strategraph of the strategraph partial of staff. There's this series of inmain and the strategraph of the strategraph mile are hour as you had her you're hours to blink usurand as they search for sing to blink usurand as they search for sing the the courses of the strategraph were with them.

Neceladas foreseas numerous uses for the liveer partie from oveken liveo

The maneuverable slow-flying craft could inexpensively replace the hericopter for many traffic police- and military surveillance massens Unmarried radio-controlled parafolds could be used to land meridincify on post office roots from low-flying arplanes a more efficient delivery method from landing the mail plane, unloading its cardo and thucking a coross occurry.

The parallol is cuit also be used to time, advome troops advaugable to earth with more safety and messionatable yata with used and parallelities says Neckodire. The U.S. Amp sampling the parallol to extention and competition umps and hardware associativation. If by dat-main says hardware advantage to the extention and competition umps and hardware associativation. If by dat-main approximations are all by data-main expension extension y Necklades in site (extension) encoded on the parallelities and extension encoded y protect vehicles abare wet harts:

The poldern with the filveer askers to be remery that is a offseter. The U.S. Coast Gaard for example, found that it had greet have percentry with y introduced with its performance. I call L.C. Commander Maningh. E. Wilsman, called of conservation and advanced technology for the Ceast Gaard Other of Research and Development. But it was a concepts in advanced in it.

Their registration of starts a characterization of "progeners," where it is Neckalabelias machine of some other dynam, weak duration durating with a characterization with investidurating with the starts of the source instantial waters appeared and charge starts coops minimum allwales, speech and characterization and an and the starts and a source and the source and the source instantial waters and the source an an an an an an an an

There would also be more sublechanges as we interactionnet lambacdimensional earlbound travelet into twodimensional earlbound travelets into exploreample our architecture land-use planmed petry of earls harding asses. And mech widermeases would suddenly become al nos occessible

But the top gapeelice remains whether Mr or Me. Availage vocatio want to fly in the Inst place. Even if baggin basement if liveres were available that could be used on the road as well, and that sayate reasonably intact. For example, after an unexposited encounter with the store of an office basising would then be singaped up by the consement IIIs a month be

But the global of lever with its incident substatesphere sepretaries to one of frose meeticon-inprogress that may not have to wetween the groups in state to base of Source E-or parallol development fulfills anagging dearm of the average persontosars for cagin the openisty whom is support base to be breaze maneuvering as freely as a ted CO "I am vitally interested in the future, because I am going to spend the rest of my itle lihere."

Charles F Kettering



THERE IS A UNIVERSAL ARCHITECTURE OF INVINITE ELIGANCE AND LOGIC FROM WHICH ALL THINGS—ANIMATE AND INANIMATE—SENTIO DERVE"

Is attanting to this that the science totan aryour childhood a the science fact of today Through the pages of CMNI you will probe the unbidding wonders of tomarrows workd, and behalf a breathloling won of the future 'Suil-Jalaover'

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VISIONANY ARCHIECTUB—Intrakewater hobitot house that change ther sashops, and actor lief living organisms are buildings towang aver 500 miles in significations and more are the subject of CMNs in depth taok of the anthlecture of the future.

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Put esclare réiness wit Tror Hyer dohi EO Wan Tad Tator and alter sonary thriess Biology UEOs Oceanography Genetic Engrisering Fusion Solar Nower The Futue —YOUR RITURE

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BIRD'S EYE VIEWS

Maps was when completeld or toy district losh "opt" to the human eye It lakes to grief amount of provided losh "opt" to the human eye It lakes to grief amount of provides and vocated blue lake marked inner miles aread on the map. Both-eye and related terms polarior in other clock stream polarior in other clock stream polarior in struct human takes from the more they challenge our serve of well bols "tgt".

We solve (prifot today, wrually all maps begin with sensil photograby-wa a comera capable of taking from 200 to 300 overlapprig and successive pictures of the landicage below on a single or of 23 continuent (inteact) ywde tim And monitosally individe successive map mading, individe successive map mading, individe successive map mading.

Arrail magnetomess gamma-ray photomistics is the conrelation spectraneous and other complicated sconding, althorine devices generate liess lamitar bat wen maxim lisionalizing tomis of lienearial charting. Some of these limitely ensure of system as they are called provide a bitare and wonderful imagery of the outh-unlike any senal photograph

Dut a hole in the floor of any exeting ancraft install on senal tapognaphic carrient, and you have a mapping asplane After the photos we taken, today a map maker analyzes overlapping pars of aenal photographs through a steeo www. Uang this technole it is possible to

Exotic glimpses of the earth below. BY HOMER JENSEN



lide-looking radar imaga lan Diego Selty: Aerial photo (a tield of California xoppies (right) Remote sensing provides bizatre and wonderful images of the planet's surface.



Side-looking arborne redar

determine the height of mountsins or the decth of valleys withscend into the valleys. Since the craft carrying the carrieral today distances ranging from a couple of hundred meters to 17 000 me-

Although conventional photogtechniques are essential in coscoled instruments carried in winterly standard planes map ts electrical conductivity and of snow and dozens of other properties. With these bechof these ways of looking at the

soart googhysicel remote-serieone is a granddaddy if was first

The rocks of the earth have distinctly verying magnetic charenormous magnetic strangth





6 It is as though some cosmic artist applied his brush to the terrestrial carryas 9



Catacol I the soal" Losar Mexico

passas is a piece of megnetite. a teletively common cock h These magnetic differences pausa variations in the certh's tences providing data for identifying specific oras. Moreover these variations in the earth's megnetic held are not masked by water, sir, or other spells. The patterns of venations in the earth's magmenoed from measurements made by anotalt flying anywhere from 1800 to 18 000 maters (5400 t0 54,000 feet) above the earth From these patients a large

maps Since many important. fraction of all the iron biteraum. ons are better conductors of airkal and ashestos now bento mined was discovered ing rocks such mans are mans interprets the accelera-

by enforce magnetometer in a smiler way the parth s

lected by variations in the type and structure of took Measure exert e greater graviational can learn something about the rocks neer the surface will alafone in the earline gravite-

> using arbonne gravity maasurements have been conthere is a major problem with ins technique. If the avorati itself accelerates, the petru-



surveys Megnetic "maps"

petroleum axploration. In the

squara kilometers of the

Manazism is linked to

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trical conductivity Variations in

fect the interaction of transmit-

costs canned on an amplane or

mounted on a towed vehicle

The venetion in conductivity

can then be represented on

narth's surface



FICTION

It was a prime corpus, complete with reconditioned heart. lungs, and enriched glands.

> BODY GAME

La ser Sensor in write ned toolaacteur yn an oo wener Genoty write te heg ou wrae oe anwen ar dit tai we dood wrat to jou meedawyl ie bod wr oestaar he yn wrae wrae yn driffel ar yn oestaar berne wrae wrae driffel ar yn oestaar berne wrae yn driffel ar yn oestaar berne wrae yn driffel ar yn oestaar berne wrae yn driffel ar yn oestaar berne yn driffel ar yn o draf fregel tool inneu wraar oe bellin o berne yn oestaar o driffel ar yn o draf fregel tool inneu wraar oe bellin oestaar o draf ar yn draf ar yn o draf fregel tool inneu wraar o draf ar yn o draf fregel tool inneu yn draf ar yn

Year words publicle the life for which you said we should be you know what was going on here I mean you were rakeed in this of y aims as me as in a man wood have to be bind ideal dumb and staped not to know wher's happening here. But I decided that I was being unlar, you've got to spend a kit of you then in Weiningfors, or mingby you are out.

PAINTING BY SAMUEL BAK

of touch. Anyway, I in taking you at your Specifically I want to tell you about my crientifatier's retried body because its a

At the time all this began. Gearchither hadn't even had to wear glasses until he grade comptometer operator With the perision and social security and what he d

The old boy just by around the apartment for a while sleeping late and watching television. He always made his own meals, and he siways washed up afterperk and set with some other old-amera. our kids on Bundays had take them to Sheepshead Boy and they d walk slong he caught a rand sheek. Except how it out

worked for 50 years and he amply date t

Well of course, that was suit plan silv and an old him in Man of 40 cont lind anything those clays much less a mon of

He didn't find a thing, of ocurse, and a job as a gerbege sorter's assurant it errement was willing to pay him to not work. Its a useful job. and I do it damned well he used to tell us. Why in God's name must

rearly 20 years. But then someone inverted self-consuming garbage and my took has to Doc Stunders at the U Thate day to hike up there. Those moving adawalks cost two bucks a ride and that s too

Doc Saunders had an othos filled with

Can you replace anything Doo?"

Doc Sounders shook his head "Put in a

Grandfather nocked. He read the Darly

6 Ho's at least 130 years old Rocketeller Mallon, Eisenhower, all 175, 200, or sothe rich can pay to try to lyin forever But Grandfather? You know there's no Medicare for body replacement 9

News every morring. He lenses about this

Grandlather thought it over 'Well by mean? Sure I'm rearly to put on a new

"That's the problem." Saunders sand

Don't see how. Grandfather said

For the next couple of clave Grandlafter Selfeth old bestand using up air and food

When I heard about that I swore I was

They re-push repeating what their parents

Die die " Grandlather seid. 'Hell I ver been worthless for 30 years and #1 had an

That is coary talk I id tell hern. What do you think that long every stuff is for if they

Like hell they did." I came back "They taught ese in school that people have been haven 1 you?

Parrous Austran doctor wasn't he?

Gomen I told han 'A fnend of Fried wouldn't aroue with a brainy guy like that

but I had to say something. And I dehill liked him and even May my wife seed he was nice to talk to

Well he debil pay any attention to the

Sonry' he asked 'how did is Arthur

One hundred and thety or so 1 reed

"And how old is Eusins Morgon Hunt?"

I don't know how or where he got the good as mine. All I know is three days later go body shopping

Body clearning you mean "I said



The Wight brothers General Billy Mitchell, Arneka Earhart, Charles Lindbergh, Admiral Byrd Alexander Graham Bell— Captain Barnaby knew them all.

INTERVIEW

RALPH BARNABY

nOttober of 1910 when the was just 17 years of 1947 Basics Barrays played holdy from high lands and were into Becond International Gordon Demost Ar Roos at Benron Fark. Long Mark 1 ets obter barrest Ar Roos at Benron Fark. Long Mark 1 ets obter barrest ar Roos at Benron Fark. Long Grend - sured and designed by Wilbor and Oville Wright For a week borne the rate, young Right heiped his before and he Wrights put the ratio success on Boly Grand

That werk was only the beginning of a course that brought Banday no contract with many of tim gene names in availan sponning the enter 75 year history of light hours the Wight access es to the Sponse Bintle Branday was hered and contains to Crivita Wight for many 40 years. He received lying instructores in the bary time Large Comman 4 cetter and binaugh to bary time Large Comman 4 cetter and binaugh to bary time Large Comman 4 cetter and binaugh Lardbargh. Astmab Hohad Bind, Annels Earthart and case of the sponses of millow restration Annuel William Molifet But Benthally is also a great stacket in the over right: Con of the best structure (galary field) parpoints with taskets 1950 (in respect to the taskets 1950 (in respect to the taskets 1950 (in respect to the taskets) 1950 (in respect to taskets) 19

Bamaby was born on January 21 1890 in Meschelle Pell but at the ege of seven his family moved to New York City where they held in the neighborhood surrounding Columbia University From his eavy days is appeared has young Reiph weaking yow up to be an anet the up and the head already shown antitle promise and was studying scorpture and drawing in the evenings at the Art Students. League But in 1601 allow assumer of existing investations at shock the Wagth bootens. Already with paper and abread Student Bernatty begins experimenting with paper anyther detuges. By that the heavy begins experimenting with paper anyther detuges. By that the heavy begins experimenting with paper anyther detuges. By that the heavy begins experimenting with paper anyther detuges. By that the heavy begins anyther that anyther was table to the detunction.

[But he never forscele ins artistic applied has soulpted busis of several availan instables including Admiral Mollett and Amelia Earthert and soulpted the large brainer commemorative plaque of the Wrights that new roados at Kitry Hawk.)

In the summer of 1960 he designed and built a working globe and made several successful highle in 6. He based the globe atrivity on plans and petwess of the globes of Otto Liventhal, the German who was the workid is highline available. Barnsby had never seen a obtain in real the

In 1910 he met the Wrights and after high sotioul he attended Columbia University majoring in mechanical engineering. During that time he was active in the Model Aero Cub, a club that attracted many testy systems and also allowed Barraty he chance. to meet Alexander Graham Bell and Hudson Maxim (inventor of alements for (rearms)

In 1987, after a take year, one us, an engineer for the fibro Booter of the second s

Captan Burnoley works today at the Frankin Institute in Thildcideful in the where he pilo is to preserve all the molecolek and analysis bioquadhed pylini cid levend Charledy was interviewed for Charles dealth in 1648. The Bis year-old Burneloy was interviewed for Charles by tealor state) that pilot Pharl Cabler Hadrons Terretius at the National Ari and Space Museum at the Smithsomen Institution in Wednington DC

Orone. What cad you think of the Wright biothers?

Benary they are excited in time. And wey behavior in the indexed of parsite by behavior in the indexed of parsite lowest between the test of the sector and respect between the test are and respect between the test are the test of the sector and the sector and the test of the test of the test of the test of the sector and the sector and the sector and the sector and the test of the test of test of test of test of the of test of test of test of test of the of test of test of test of test of the of test of test of test of test of the of test of test of test of test of the of test of test of test of test of the of test of the of test of te anybody. Their broycle shop supports them

Ormy' Londenstand that the dost of the Kety Hawk they was less than a thousand dolars including round trip tockets from Daylon Oreit

Barraby That's true And yet a lew years ago the Air Force Association warried to have a significa make for the Kity Have memorial They canvassed the big inscript companies and the lowest bid they get was one writer dollars.

Orans. What do you think was the most important tastor in the Weghts: being the trid to tv2

Benady Well I think Wibur Weght stated it very well in one of the bary Moherium which is says that and already Moherium which baid structures light encugh and shong encugh and with why alread encugh to support them in the air. We know how to build power blends light encught powerful enough to drive the selectives through the ar Thething we dent know is how to control them in flight. And on top of all that there sets among who know how to fly.

Its inference to the the Wight the work of the product of the product of the term of term of the term of t

Names, Toorg, Are morrarit hogo time to the a processing of the second second

Ome When did you instituted the Wrights? Bainaby! In Doctor Hill at the second international Ar Race. It was held an Long bland at Baimon: Park. The same pitces where Baith's Slew won the Taple Crown Crewn The applane of the Wright Bechanis have way the Salary Group Wosh 17?



Captain Bannaby holds the final globag loanse (above) stoped by the Netronal Assonautic Assocs from Nete that the science cambrate is signed by Onnite Weight Inneet 8 044

Bandby Thite right the Batty Gand 1 was seventian and 1 bits the high school teacher Mr Brial that that periodic week is probably vector first bin in school Ant be said. What is the mann? Family tool/47 the said that is the mann? Family tool/47 the said that said cound to any school Ant be said. "On you are well you?" I said "Bath" right bases of the provided that the said that the said "Could 1 go at when you?" So he were with mis to Reimon Pask. It spart model of my threat hem all the Wapper handpare Crew. What was your connection with the Washe?

Banaby, My brother who was a mechanon emprese valued for the Anancian Boah Magreto Company Andrey pather boah Magreto Company. And they pather contrast to make the eight-online range nets (the device that augustes alarities) for the gane plags) to his Bitty Crimit i fee book her segnets and the Banerel Mak work samig it up the table me device work warres of these in thesis me the field anito the leaders that the table table to be the leaders that the table table to be the company.

Banakay he but ne fields Group has a general or negli mene nance within CMM bench apped a thirth weak in their least apped in mellion present the set of the of the set of the set of the set of the of the set o

Chave How were the two Wright brothers different from each pitre?

Berrahy Witter was the more appressive of the two. He was the spokesman genoally He was more curpoing. Wy only personel knowledge of Wilbur though wise that one wook. I never saw tem spain Because is was in 1992 that he died.

Devit On May 30 of typhoid laver at home in Davion. One in bed

Barneby, That's right

Orent: Onviller Wright was a stry man?

Barnaby Crivile had very title to say at that, time Oft he talked scenarily But he was very record when meeting paople. He debt accent to even it see unable.

Onw. You knew frim until his death didn t

Barrelay Yes, I know hm quist well, I used barrel hin oliver in Weintright (160, 1 light basis acculated with heir on the annual partis to Largely Paid. They used to held and of another heave core a year. The most harves the registry basis they wand to held have a the registry basis they wand to held when which and the one for dense will Weights. And Tony Folder would be then

Onne: Of Fokker Arceal?

Berrich, this A handle parage of us hown is addited for this was represented. Heaves with people he didn hance Bat with a gain is being the could be made garning based and of good stores. He tarket him head of then althoracids we would adjourn to the careful of the ship. where they had this logpane and work how a subgrides Orable load that He didn't any finesse but has pane and work how a subgrides. Orable load at the end of the host and facts a work of the host and of 47 the table in dualacent the most was

But perhaps the classist (got to Crivite was when I was stationed out in Dayton in 1928 and 129. Saturday atternoors he would hold open house with sandwiches and mik or ternonsite. People would drop in-mostly offbars saturdar at Wright.

▲Adminal Molifett was a preat public relations man. He knew that to got money out of Congress you had to do starting things. So one day he said, "Barnaby, would it be possible to launch a gNder from a dongble?[™]

Field It was there he told me the actual blow-by blow story of the onash all Fort Mayor Wigmo, whose he was alternotroping to common the Army to use he piece. **Orme** You re spiraling of the clearth of Lt.

These through a liberation 1990. The sector of the sector the who That was one of the wees that stablend the whole tail structure and it and of twelved — and he had not control over either ruckler or elevator. He just went in Onville was senously injured. Settindge deel.

Onner Spinking of happer times it was you who broke Drivle Wright's long-standing fen-minute gliding record set al Kity Hawk in 1911

Bandly, Hrie mutus and burlevs secora, Yes i wai be summer of 1861 Vivos just bryny bi get ny certificatia at hu Cago Co Gliefs Stocci Linsoly noor hy Arrig B certificaties for the C this secancy certifity or bandly control (in the mutus) so they auchted min in a glear cable a POCIng by Stocci Linsoly and Stocci a POCIng Jone Stock Door to bay so the Oth Cago I stando control bay so the Oth Cago I stando control bay so the Oth Cago I stando control bay so the Oth Cago I peaked the segment bas minister. Then the stando control i so the second so until baget I blear music

Orear Your Inst love has always been glid eran

Barnatry I was never particularly interested in singles. The fever engines a plane has been more I also it. That's why I like used planes also it for the single here the regist on due to engine facture. But a finant of mine once tod me. Thying a glider is like having any me facture balance place to having only may facture balance place to have an engine factor.

Onver. Tell us about your mast spectacular gider hight---tha 1030 launch from the dirobbe Los Anowler.

Biostep: - of the 'U' was an adverter to the second secon

Barneby: learned to be sure I was going to be held by a engle release instead of a clouble. This business of trying to let go of the netessate at the same time a to the hard Take a rubber band and stretch it out with owned.



A HISS OF DRAGON

His gene tinkering turned the berry gatherers into fire-breathing behemoths.

BY GREGORY BENFORD & MARC LAIDLAW

I summer the second sec

and went down the nocks list test. The bouchase were slippory with green mass for about 20 metans below the loops oo listed down on them theid to keep the fails to under four meters and banged my but when it missed I could here Luspoid theories of the state state of the other refue, moving down toward

PAINTING BY ERNST FUCHS

A stradyor fel own mo. Ixiding out Better by velow dak. The Linown food show thrakened its wrong and gaves in turnstation and how anothering was up. More likely, with its wash open, the Dengon thraugh the Dog ware appared. If stations, for what would alback them That wash the optimized more than a seen one of us. The show the Dagon had seen one of us. The and the seen one of us. The Dagon had seen one of us. The the Dagon had seen one of us. The Dagon had seen one of the Dagon had seen of the Dagon had

Then its wrige farmed the sit backwards II drifted off the ledge, hovering. The long neck maked around, and two memophed over scuipt mine. The nose expanded, cabbing my scent The Dregon based trumphantly.

Our observer was set for a fast takeoff But it was 200 meters down on the only write spot we could find I made a megophone of my hards and shouldo into the tim mountain mist, "Leopoid" Grab as!"

I proped clower to a tong bookser that public into space. Below and a liftle to the whit I could make out the stimmer is thing wrigs through the shifting green log. I socked in a break and ran off the end of the bookser.

Drogons are during at level flight but they can deep like a trick. The only way to beat this one down to the element was by heling mate of the way.

I harked down arms out. Out crowity is only a third of Earth normal. Even when failing you have time to think things over 1 can do the calculations tast enough-int court right with a Dragon on your tail is arother mother I toked the seconds off and The slowmer came rushing up wind whepped my tace. Then my hemess jerked release and fall trap. Above me. a trumpetna bollow Screething was poming in at low blaser Could it be that fast? But it was Leopeid on chute. I aprinted for the skimmer it was ported along the best outbound wind fleps already down, a standatal precaution. I belaed in skiping my feet Dragon More high shneking closer-Leopold carrie running up, penting. He wriggled into the rear seal. A thumping of

Drappins don't by they foul. They have a big green hydrogen filed dome on their textus to gree them it. They make the hydrogen in their stomachs and can dee quickly by vesting it out the ass. This one was furting and his ng alwe boomed away borked samed to get a lock at the hafting brown mountain heating fits anger at us, and anneed.

"I take back what I seld this morning,"

Leopold gaspid. "You'll draw full woges and commissions from the start."

Eddp1sey arything, 1d just naticed that screwhere back there I had presed my boots full.

I powered it pretty well back at the simp I twisted out of the skimmer and stipped into the membersance bay I had extra clothes in my bag, so I slipped on some fresh social and througs

When I was sure is smalled appreamably human. I temped back out to Leopold I was clamned if I would let my morning's success be brothed out by an embertalising accourt I was a hirst market three clays. By taking at coop during out in the fail temperates and gave mail an odge over the other gave who had applied I was determed to hem on to the ab.

Lacopoid was the guy who "riverited" the Dragons, two years togo. He took a life form rolive to Low, the troate, and Iniversid with their DNA. Stouts are ballocritike and nasty

I made those Dragons out of mean scneof blichles blimps with teeth is what they were. It gets tricky when you mess with the life cycle of something that's already that unstable ?

Leopoid made them bigger bugher and spiced in a lust for thetabornes that makes Dragorn head drain computativity. It had been a brilliant job of bioengineering. The Dragorn gathered thetabornes, and begoet at de them from the Leris.

Thedebornes are a being good high in poten, and delocaus. The mainlel for been might outputs 1. Law is according out worse—the copper beens even in Bahrinn had run out lest month. This was nearly the only good laying job with Moorthan anything also, I wanted to keep trying. And as a cop cluster Chald-phable work is a pain

Leopoid was learning signed his demmor a little pale welching his mein huas treptoerner. His thigh musclas were still trede his was clearly on armanity entertry bat he looked litted.

"Godderm" his said "I can't figure it out, ied The Dragens are hauling in more benee then normal We can't get hos the Larsthough. You id think it was making season around here, the way they're attacking my men."

Manna season? When's thet?"

"Oh in about another as months, when the pullbushes bloom in the poplogs. The polion sets off the mating urges in Dregore--steps up their hervest, but it also makes on meaner!

"Great," I seed. "I'm allergio to puffoush polium Fil have to fight off Disgone with rumma aves and a stuffy ness."

Leoped shock his hoad absertly, he hach theard mo. "I can't understand it there's nothing wrong with my Disgon delages."

"Examp to me you could have bread down the between plasma" I said. "Colm them down able -1 mean, they've outgrown ther competition to the point that they don't arounced to be mean anymerce. They don't trowse much as it is nobody's going to bother them."

"No way---there's just not the monay for it, Dasse Look the oparating on themargin how by he year rights to the genetic paiens just ran oct, and nor imminicer patholic with lowable Privata, who owns the other half of the forest. Bosides, you think gare science is easy?"

"Sol. If they can bioongineer humans I mean, we wore beefed up for strength

and city burning nearly a thousand years

But see woron't brown up to five times the see of our progenition. Diake I made those Dragons out of mon note of bodies -bitmps with heath as what they were it goes bidly when you make with the lis cycles at bidly when you make with the lis cycles at bidly when you make with the instable. You you'd con't understand which maked here '

I nodded. "I'm no bioengineer--- , granted"

Heredevid at me and grinned is screaking warm gan on his deeply intel have here brakes but youring good at what you do-maky good. What happened techn, and if happening more and more ablen. If you have to be provided the more within you have to begin their of efficiency and if a happening more and more ablen. If you have to begin their of efficiency and if a happening more and more ablen. If you have to begin the origin of the main that. Diagon's storagehing in nonsammer and all.

I strugged That gave me a chance to roll the alabs of muscle in my shoulders, neck, and pectroats—a sublic advertisement that I had anough to keep a skimmer aloft for hours.

So," he contrivued. "Thin giving you full plot raise. The search you is You can the it home longing on the constant that you meet must be Anges Taiven for a dark later on And bring your gift bekene, too, if you word."

"I's a deal Leopeld See you there."

I whethed like a clungwarbiar all the way here, passaing my new sharmor over the tradicus toward the city. I nearly welpool myself in a floating tracket of windbrom bias, but not even the oculd destroy my good mood.

I denti notce any Despore reening arcand, though I saw that the medoan had been placed of their bernes and then corected Loopdid had at least had the toesage: when he was gare brikking, to prove to the thieldeberres constant mplanshmant. He gave the Dragons a throat forms to single the braidpla with, which makes the berniss regrow gracity A nice trach.

Evold have been amplier, of course, to have much harvest the intellobeness themsalves bestfallnever worked out economcely Thelebeness grow on top of virially unchrotable therefolds, where you cont even manesurer a stermer whose post of these where far ama fello the pround.

will, if if is on the ground, it has speee, hardsherule on Los. There's nothing soft to share been used in the second second second than good the "buckar actually do someting useful with aligi life—namely, becagingering. Los, sharp be a forwarded woto-whet means are the boto.

A clapping sound, to the left 1 stopped vesting: Down through the grane at 1 takes reading to the through the grane at 1 takes reading to the set of the set of the set of the takes at the set of the set of the set of the takes at the set of the set of the set of the takes at the set of the set of the set of the markways. Do control means and mark the takes at the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the the set of the the set of the the set of the the set of the the set of the se

The teck to number in the original part of the operating on the same an path of where it state, but the emission way and the technologies of technologies and the server of technologies of emission and the server of technologies of the emission of technologies. At test results of emission at technologies, at test results of technologies and technologies of the technologies of technologies of the technologies of technologies of

And stopped flat in mid lat

I laughed stead sheathing my blaser The snagger had won his meet like a real hunter

Beneath the snagger's wide birmpike body was a damping thread of anapparent, story material. The smackweig strugglisd in the model folds as the snagger draw the shoet upward. To the unwary smackweig thes clear sheat must have been trivible und the insteat he flow into it.

When another must as a packaled path the spot, this insigger had ortholy engulied the smoothing and was unrolling its filtely show you was considered me and roposed the notion of me as food. A parkinous preduce wine with years.

I flow into the spined city. Kalatra

I paleot on the deck of our spartment biddings of the city loss that particle wooding biddings of the city New Hell particles wooding had been subcestal, well be liable to this in Raidin, though I hepsel we could find a been apartment. This one was as of as the city-weight in humber been around be a gase that of the 1500 years humans had been an Los As the wood of the lower stores totical, and as the building ocam bled stores totical, and as the building ocam bled stores and beet the the phone Somediag this of y would be an anotaeologial's divers in the meanane, it was an inflobiant's nothinse.

Their metabolise back having neglitable several teck-travels defar and nightnermg alancy sole info the depth of the double during, i charge query to the vaceden door of my apartment and ist mysel in obtaining ing the maximum insels that of policid up on the way form. It was date and catroped made the wind in obtained to the doorway and downs no linear Bealann money azond in the could have Bealann money azond in the downs and the traded to the doorway and tradeberrise with a thourway?

I grabbed her, throwing the steaks into the kitchen, and kissed her "Got the job, fivey" I sed. "Lexnold sock

"Got the job, fivey" I said. "Laopoid sock ms out himself and I ended up saving

We went in a balcony entrance. Fat balcons nucled against the colling dempling their cords. I snapged one and stepped off into space. Evolene hooked it as i fell. We rode if down, past the rock wais 9

No.2

"ble you" She onvered her nose, squaming away from me. "What is that smell Drake?"

"Smell?"

Live something died. It's all over you."

I remembered the afternion's events. It was either the smell of Dispon, which 1d get from scrambing around in a Late or thet of unce. I played it safe and said, "I shink it's Diagon."

Well take if somewhere else. I'm coolong driver'

1'li hop in the cycler. You can cook up the stepks I brought, then we're going out to celebrate."

The Argis Taxem is no ekiti joint, pood for a stale senso on the way home from work. Its the basis The Argis is a vost old place, perched on a pyramid of rock. Crange fog needes at the basis a mesty colar separating is from the samble of the city below.

Evaluate pedaled the skimmer with me heating trouble in her gows. We made a wobby landing on the holiday side deck it would be been esser to coast down to the city where them was more soon for a glida approach, but that's pointees. There are thick captus and therebuilties around the Arga base, hand to negotiate at night in the old days it kept away produlate, now it keeps away the itheat.

But not completely two beggars accosted us as we demounted othering to alme up the extrement adurtisum takin. I graved convioungly at them, and they attered away the Anga takin as big, as half of chamtes to field out it, they can t keep it clear of begats i cuess.

We were in a balance emerge fait balance toom august against the comparison of the series experience and the comparison of series experience and series of the series between best at all bit We not it compare tooms the balance to her not wells. Welldesard partors nocised as well eved down the balance balance toophet programmers and the parts, toopheting participation and the series of the parts of the series of the parts of the parts

"You've lats "he called We stepped off onto his lodge. Our barloone, released, shot back to the roof

"You didn't set a time Evelaine. Leopoid Node introductory phrases

"It seems spite crowded here tong/4," Evaluate murmuned A plausible social remark, except she d rever been to an inn of the class before

Leopoid shrupped "Herd smean Millawates Booze or senade or Englers-

Because here the directions of a con-tify of and invasion here one initiations, the exacts on anidi ingler Bervice was running bas to lever to tog our oncient. Init of born a shriny point to the first bar level. More appead by mus calling us these repair left by the pathone, it serves on later Arrite the part and taxelable i patiend our or other with a ethware and turned to go back.

"You looking for work?" a thick watto said I glanced at its owner "No." The man was

Thought you wanted Dragon work "His meeting a work of distant arruptment

"How'd you know that?" I water I known in the pity

"Frencis told me."

"Leopold hirtsd me today

"So I hear. Till top whadever ho's paving

"I don't think business was that good."

"It's going to get better Much better, once Leopold's out of the action. A monopoly can always set goods at A higher price You can start tomorow."

So this was Kwalar Phang. No fitanke Im signed up * Actually I hadn't signed anything, but liver was sometting about thismani didi tileo Maybetheway he was so sure if work for him.

"Flying for Leopoid is dangerous. He doesn't know what he's doing "

See you around," I said A series was saring in a nearby booth. I took advertoge of it to step into the expanding blue cloud, so Rhap pooldh' follow and see contextrometritt.

BIRD'S EYE VIEWS

CONTINUES FROM PAGE TO

ton as a variation in the gravitational field, thus limiting the socuracy of such measurements. Gravity measurements will probably be contined to regional surveys.

The service instruction are potential to a service of the service of the service of the object of the service of the serv

Thermal magery over a city can percent the testion receives the results there acoustiing insulation. Poorly insulated latern lines or writer mans, overheated electrical intidation and other temperature-related students call attention to themselves in temperature scars, which can lead to energy-solving corrective measures. Vaces of our lan chartest sements can also be detected from the an even in conoptitibions of only a few parts per billion for example. The element mercury a associated with many meanals.

So les have been discuster ayeters or intrinsos ty which actual tably the origination of the second second second second in terms been back the earth is subject to the terms been back the second is subject been table of the second second second actual probability of the second second actual probability of the second second actual probability of the second second in stable or interview of a second second in the second second second second in the second second second second in the second second second second is the second second second second the second second second second tables of second se

For all to prove efficiency and the provest end processing of the provest periods and the provest period of the period of th



can't around of valuation, when the weather or is obcordy or runs, the performance of winal contexts is encounty imparted belower at the summaries, the appearance of the improcess charges—and come inset to appearance of the same terms taken under attempt to the performance continent to implement according to continent to implement according to the second of the year. Photographing within according in a single program for constant major a longer language.

These deadvartages are overcome and a number of special advartages are gained by employing an imaging rader system known as faide-looking arborne rader.

It is basically allown robust in table in table and the second second second second second second second and the second s

Bid-tooking introme task we hat dosupport for military recommission. Toolay receipted to military recommission to the instruction of the second of the source instruction of the second of the source path the tight path, and all he entering path the tight path, and all he entering and releasing support. Allocat the allmental releasing to the source of the received means and the source provides such as the second task provides such as the second task provides such as the second provides such

With the same g to be the to of the same of the same g to be the same to be the point role of the the best best of the same point role of the third square identical end of the same best of the same to be point role of the of the same to be same and the same same to be same and pervision will contraue to expand thereid a same same in the same role in even to come and pervision will contraue to expand protectly version and to the same role in even to come the to be same body to the same role in even to come the same body means and the same role in even to come body



Bryan Allen Albit vi Oceaanter

Abartosa Degenia para Albartosa Itali organial Condor Albartosa Itali Allen pedal In uprght poshon: Opposite Allen (eti) with Gos sairrer designer Pliut MacDead)

MAN Powered Flight

This spring, for \$170,000, a man will try to bicycle across the English Channel.

BY SCOT MORRIS

he largest cash prize in avation helory-over \$170,000-has been offered for the first successful huma-powered flight across the English Channel

Henry Kremet a British industrialist who last year paid out \$85,000 to the owner of docsamer Condor-the final alighter to fly engorous precisely defined pattern using only human musclins for power—to agein puting up the money

Condor's ownerridesigner Paul Mec-Cready thinks that her rive Kovener Prize is as good as won. The Cattech acrodynemes (Ph.D. and president of Aero/Kromment Inc. has already built a new amplane that he says could fly across the Channel bodgs /I il weren't for the homble westere conditions there this time of year. Macorderions there this time of year.





Creatly is waiting for spring, but Bryan Alanaton history has already begun strenu- amplane itself is on wew for all to see, hand May the avecage temporature of the Ecosays Alies, of Bakersfield, California, Tout I least once before I make it all the way There will be at least two boats along and if Alian "Hopifully then maybe [] be in the a lew momenter and a little luck he water for only a few seconds. A minute

water if he durnes in but shill not be encumthe form of boats and two-way rackes, not

landing? 'That's a philosophical and economic currention." MacCriwady rays "Them are different ways to design such a plans survivo the water landing, but by doing so Albahoss is in four 7.2-meter (22.11) secyou would make it beauter and less eff. you could depen it from another approach . The Albahost is stronger and lighter plict thate are sharks in the water down we may have to make two or three or four places and figure they're expendable "

under tohtened security After all when he than to overweight predepeteor was working on the Gossemer Condor. Iew . To the casual observer the biggest differ tie chance that someone might copy the idee and beat tim to the punch. Then the a matter of public record. Magazines from

Sports Abstrated did testure stones on it ng in the lobby of the National Ar and alongside such other pioneer fiving ma

Anyone with the resources-about \$2030 in raw materials and 500-pius menhours of labor-could build a replica of the might even beat MacCready to the Kremen

Paul MacCatality entroperates that 'We . MacCataly those this is unlikely but he want the plot to be protected from the odd is understandably cautious not to devide

How does Albetross differ from Condor? It llong piece, but it would be impossible to Dover the takeoff point. So the wing of the

there and that he'd better not go in and pilot's salety on this flight and not canned focus every bit of attention on making sure on the Condor, including an attimeter a he doesn't land in the water in that case. variometer (which appears instantaneous compass and two-way redio gear (a head MacCready worked on only one model of set and transmitter with vorce-operated the Gossamer Condor, but he is building mise' will add one or two is lograms, but the Abstross will still be considerably lighter

The Condor is the world's slowest plane. MacCready car jog along and shout up Instructions.





6 Amone with \$2000 and 500 man-hours of labor can build a Condor. But MacCready is confident the prize will be his 9



ance is that whenase the pilot law on his ment intert pedaling---It's a completely shiback pedaling feet-first in the Constr. he out of his legs in the upright position, and some informal tests on an arportietar suggested he mant be right So his opciant pod is takes inanor. The tuselane is edit streemined, but with its thickest part

. A closer look reveals that the heart of the als in place of eluminum, for example, The word is sterrier sleeker with more that its contour more accurately his the computer design of what it is supposed to

efficient airfos). Although no one gives out required to push Condor. "It's much easier

MacDenady (left) uses an exp to shold the thin

ferent arcraft. You just pat in and fight" The Gossamer Condor itself was an incredibly docks behavioth. While it look the anyone in modersonly good sheps could fly

On August 23, 1977, Paul ManCrandy watchad as Bryen Alen strapped his teet rike the pedals of the Conday and liese a last of the pround at the start of the light All of a sudden the Kremar contest was over in southern California, on a croodent visionary man took all the marbles ket 11 months after building his ant test

Around the world many sophisticated research teams had laken up the quest Jatuary 1977, the bast human-powered Takeo working under Dr. Kimuna who had World War II. They ninne the Stock made of boiss and nos paper was the latest in a Kerunia classes had been building over the past decade A try human deterro straight line, easily the longest human-

make turns very well but the Japanese were working on the problem and it looked he paid off in year

But robody powrited on Paul MacCrawity vacation, davdreaming about powered smis with no increase in wealht it would any good attiets. After somboling a lew

With mostly volumeer help from colstrangest machines ever to take to the air-the Gossevar Condor. In dasion matche and a smell stabilizer wing out whoseen of 29 meters (90 ft) about the Styrofoem sheet comigated catchoard. Alian's loca to the 3.6-meter taxt-bladed

The Gossamer Condor scored serveral

stay up for more than five minutes and the first to successfully make 180-degree

. With a crussing speed of less than 16 kph leav enough to allow the designer to use

When Henry Kiercey offered his \$50,000 loutcessing, for example, the \$25,000 Ormer's money was worth somewhat less last was than when he offered if but a still

FICTION

They would resurrect and kill him again and again —until he repented.



"You will make no speeches," seed

drama coach linar a man who was seeking Jerry's cleath "They not only won't int you." Be

anything, it will go much worse for

We don't need anywhere near te much proof as we have "You haven't proved anything "We've proved you knew about it."

point arguing now Knowing about treasen and not reporting it is exactly equal to committing treasen

Jimy shrugged and looked owny. The cell was bere concrete. The

herrmock hung from books on the wall. The totet was a can with a

"I dich'l expect they'd let me," ny Crowt answered, affecting a confidence he didn't feel. The proseculor was not hostle, he BY ORSON SOOTT CARD

removable plastic sent. There was minutes. In the three weeks he had eatept the proseculor. Jerry reluctantly not the man's gaze What do you say when the axion Nolo cont "Wery sport it would be much nicer if you'd consont to say 'guily That comercher Three comerce will be pointing at you. The trial will be broadcast two. To America, you comport yourself with dranty quetty "Anderson has brought you to the point of dealh, where all depends on go have lunch. Tonight wo'll sec each other again And remember. Jerry rodded This was not the He spent the afternoon practions

PAINTING BY GOTTFRIED HELNWEIN



conjugations of Portuguese irregular vetos wetnig thet screets the could go back and undo the moment when he protect to speak to the old math which had unfolded at the plane to assessmente Andiversitath. "Now i must had you " seet the old math. "Tenne give covies no seets" amenopen you low blanty. ref?

Love lowry? Who knew arymore? What was loverly? Being the to make a buck? The Reusense had been small a buck? The Reusense had been small on buck? show that if they led Americans make money they reely defining we a dame wheth language the government was speaking Ard, in tact, the government soble Enders minwey.

The propagated that they had been takenging the ween 1 anny 4 was too too. The United States had never been to beenable it was more properous than it had been since free Wetners Wet been 30 was before And the law, completions Armacian people were going about their too a using a restruer of Lawn on toularge and billication were just what they had always wered.

Least no different, he naminated himself it sense may work application, complete with outh of allogance. I associated it, membry when they optical moves for a subchall with a ligh Party official I oven taught his daminable kibs children for three years in Pio.

When a state have been writing paper but what do twels about 90 Why not a comedy....The Yankiwe and the Commisser, a load of langhs about, a writing commeioar who manufactures typewritere There are no women commission. Of course, but one must manufacture the Buckho of a thre and equal society.

Bruce my dear says he contrineer in a tack but error Russian Accord, 'your synwher company is suspicicually close to making a code."

"And if it even running at a loss, you'd burn rein in year, my falle noodd?" (Bedous laughe from the Russate in the audience), the Americane wan not amused. But them, they speak English fluority and don't need brood hurny. Beades, the revenues and all approved by the Party, so we don't have to worry about the critics fluor the Audientia boy. (Losbourge contension)

"All for the sake of Mother Russel

Scene Nother Basisa/

"Please do " says Natisthe. "Regard me as her personal incamation."

Of: but the Russume do love onstege sex. Forbadden in Russia of course, but Americans are supposed to be decedent

tright as well have been a ride dreigher for Daneyland, Jeny thought Might as well have writen shack for vaudewle. Might as well go stack my head in an oven. But with my luck it would be electric.

He may have slipt. He wasn't sure that the door opened, and he opened his ayes with no memory of having heard locitiops approach. The calm before the storm, and now the storm.

The addeers were young but undervol. Sloveh, but centrely American. Sloves to the Stave. Put that in a protect poem sometime he decided, if only there were someone who wanted to read a protect poem.

The young American science, Bit the underess were working. In not of encought to summarise the old ones, but there are not made for American bockets associated from does consisten up states, through does und have worked war. What do they have a prevely american and what do they before any and the states and the table to exact a state of the table to exact any the states and they are the states of the table of the states of the table of the states of the states of the table provide

Jerry hat been n at Yale. Dr. Swos had beenvery popular Bost dann professor in the department. He could lake the want dreet and sum if into a play, take temble astron and make them look good. Side apathelic automotes and hepetu. And than one day the police had broken into the

Geraid Nathan Crove, the court finds you guilty of murder and treason against the United States - , and 'its ally, the Union of Soviet Socialist Republics Do you have anything to say before sontence - , ?

I roma and sund Stacks with thos representations of the second start of the second sta

And Jerry realized that he was weeping. The eclears sating across from him in the amonad van were looking away. Jerry cloud he eves.

As son is never got out that there's war instabil, he was subdety uncome. The ergore who had letters or memos or even class papers that bore his nerve destroyed them. Hit nerve disappeared from address tooke the disase ware entry to an once stroked out, his once even hoping for a subticate for the university subdety had no weard that here had ever boon such a class ever boon such a protecter. His

house had gone up to sain, in with lead meeting and no can said good by And that, more than a year like, the CBS meating and the sain of the sain sain sain sain and sainwar sin multise of Bwrch weeping thankerg my hose at authority. In mean thankerg my hose at authority in mean thankerg my hose at authority in mean an awarding, in laid been rather y conwroged information and marker parts and a warding in laid been sain tabley conwroged information and induced been sain that weath means.

The sum signered and the clock in the back operand pits at John sector back of the he had back of the sector back of unit the had capited down in the magnetic down Whether Sector back of the efforts and the sector back of the sector back of the sector back of whether the sector back of whether the sector back of whether whether has been up in their ford whether whether has been up in their ford whether there, because any had near any digit inform With all digraps.

For a moment he was asharred. Allfe is a We, no malter whose or how wood.

Then he encompared the negative wave Rear Analysissis to a -Analasian in beam Analysissis to a -Analasian in Beam Analysissis to a -Analasian in the analasian and the analasian and analasian and the analasian and analasian and analasian and the analasian dana analasian dana analasian analasian dana analasian

Infact, Peter had given him a bonus. And Jeny had spent it.

Charle Bidge Jerry's defense attorney, mot him just inside the cloors of the courthouse. Very, eld boy locks like you're taking all the proby well. Haven't even lost any weight."

On a det of pure starch. Two had to run atound my cell all day just to stay thin " Laughter Ha ho, what a fun time word having. What pixel popple we are

"Laten, Jeny, you've get to do this right, you know. They have audience response measurements. They can Judge how smeers you seem. You've get to really mean

Wasn't there once a time whan chilense atomeys tried to get their chients off? Jerry relead

Jerry, that kind of attitude ion't going to got you anywhere. These assn't the good of days when you could get off on a tech-

Broadcast exactly 75 years after the Wrights' first flight, this new television special recaptures those dizzying moments aloft

in most of the equipment. With the excepthat this was the most deficult location

under the best conditions. Duron the real thing on television. that's because it

During two days of the filming a reporter from the Virginia Pilot, the first paper to bring news of the original Wright

The plane used in filmeno was ono-

On Sunday right the 17th of Decemand swirling sands, should very well

of that magic moment at Kety Hawk DO

THE WINDS **OF KITTY HAWK**

1876 invention of the telephone, who built

see re-oregred that fateful day when the

Full-scale trying replices of the original

The competition to master the act of tiv- sion special, the producers wanted to du-1903 Perro Beach proved a perfect

There was no way to except the wind was completed seeking refuse in cars









Planes and phders used in the filming were fragile, deficult to hangle under the best condenses



CONTINUES / ROM MISSING

both hands and iny to ket go of both ends at the assessment the You contribute it is going to stoot of the way on that So we devised a singlehold using abonts release which we installed under the behy of the Los Angeles. They gut it right over where the occupatives to be They had made whaten so I could itensive from the acting to the Pulline under water with the tot.

Gensi And the whole thing was get a pub-

Bernary that excert loss the intervent of the object of t

Berney A. An under of tast an observed terminal and configure 16 A. 5. Is also also also prevention and anticipation of the A. 5. Is also also terminal and the A. 5. Is also also the prevention and anticipation of the terminal biological and does here as a globel the emotion of and does here as a globel the emotion of terminal fragments and the terminal biological plane tables reset terminal terminal and and the set of the terminal biological plane tables are the terminal terminal emotions and the groups of the terminal emotion and the terminal terminal and the terminal terminal terminal and the terminal terminal terminal emotions and the groups of the terminal emotion terminal terminal terminal and the terminal terminal terminal emotions and the groups of the terminal emotion and the terminal terminali

Barneby They woke us up all the rollock their morting, January 31.1900 God in wise, cold and dark it had been warm the day before and the bed methed and moranin the tracks of the bag doer and they couldn't get the analysis of they had to get anches and it took an hour to get the doors open. Then they existed the who not to the moraIng mate howked, is a low weeken of the momentum series and out the herd time is of the herd time is a series of the herd time is a series of the herd time is a series of the herd of a series of the herd time is a series of the Coll week herd time is a series of the herd time is a series of the herd time is a series of the coll week herd time is a series of the herd time is a herd time is a series of the herd time is a series of the herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a new construction of the herd time is a series the exercent is the series of the herd time is a herd time is a series of the herd time is a herd time is a series of the herd time is a series the exercent is the series of the herd time is a series the exercent is the series of the herd time is a series the exercent is the series of the herd time is a series the series of the herd time is a series of the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the series of the herd time is a series the herd time is a series the series the herd time is a series the series the herd time is a series the herd tis a s

6) was never particularly antersteal in engines. The fewer engines a plane has the more I like it That's why I like saliplanes. After all, practically all forced landings are due to engine tablus.

arshe because here were two big propollikes ahead of me and there bahnd me 1 warted to get down guck. I levried off about fly fact below the ship. Promition of down if was click roup. Expand the only thing twas thinking of online way down was a roun of bot codes.

Deel geing souch to the way court benefig. He right set of the set of the set must be definition to any source graders or applies the set. If the source graders of Applies and second the set of the

Once anow that the Aktor was the largest archip of as time and carried lave tighter security and a sector to the list both you

and Adminal Mofflett were involved in its

Barnaby, Well I never dropped away from the Aleon but in a way I was involved in the load disaster.

Oteni. When a humobne-force storm pushed it into the ocean off the coast of New Jersey in April 1903

Onvis. Only three survivors from a crow o

Barnaby Very indirect I was doing rative in six months. He had seen my work ing paper and I d put my calipats on his the head. Then one day I told here. "Well many Sometime when you're in uniformto see it. So far inducity but you and I have you than you do and then I know faces something wrong "So he seed "We'l how about I bring Mis Motlet, in tomorrow?" So she came in looked 4 over and card. "I there it a lovely it's perfect. Don't change it and 'Okay | priv need one more day to treat on the shoulders. The tolewing Monday morning as I was coming in I ran in unitions And I said "On Adminal how touches today?" He seed "Barnaby Loant take me to Lakehurst I'm going out on the must range Out of Manner City Onve And the bust?

examine a los tensors autornar a los tensors and por comvent autornar aos tensors and por comvent cest in bursen for live. Motha Lickie, a describite hautornar describite and a anche ar core sole of the arthy door men "scalar describite" bill Mothari Banatagi, billy Michell was a endoted men a second and scalar bill for Mothari Banatagi, billy Michell was a endoted men a second and the fund in lange tensors was, things dothit men (second tensors) and the second bill Mothari rescale was, things dothit men (second tensors) and the second bill Mothari rescale was, things dothit men (second tensors) and the second bill Mothari rescale was, things dothit men (second tensors) and the second bill men (second tensors) and the second bill men (second tensors) and the second bill men (second tensors) and tensors and tensors) and tensors and ten protection for the reading the register protection of the reading the register of the reading the read

Sensory two CF cores is the leverage match and a local cost of monothermal for the cost has not been as the sensor of the sensor of the cost of the sensor of the sensor of the sensor of the sensor of the cost of the sensor of the sensor of the cost of the sensor of the sensor of the cost of the sensor of the

Bernaby I was very fond of him. I felt very tout elect (

Oceni. How well did you know Adminit Richard Byrd? You helped It out the plane he tools on hig troj archo expedition?

Burnaby: He took only an amphibien you know We fisted that out. I met Byrd in Washregen and worked with fitti on getting the ownport topolfter.

Orers How chil you like hym?

Bernaby Ah Inevergot to know hen very well always thought he was kind of a

Oversi And what about Charles Lindbergh? Berneby: We met on vescus becausorie 1 their finally I met him enough times so that, when I would run into him he knew me by name But that's all Tixen't say I knew him. Ower Amelia Exitant?

Benoty A societal gal Ste vasi at teceiter price Papert A biland accuració Ste was a ventran i could have been very tont of Ste. Dinki Wight and i anvente during the tes fearetes and Threas on a contast based the National Aeronauter Aerocoton We all gal involved in a contexer uer plots who fear in a unatacconed ar race approxed by one of the Chicago reversioner.

Over 5ta and reagato Field Horstandiageneral of the Parlia in 1927. They are reoria 27 005-mine sound-to-seriel trip—test set such Toyle attempted classes to the coador—and write loss commances between New Coreas and Howevid Ialahi. But recently there have been the tomor put Travielle Recensul had many aim her on a secret toy anticion against the Japanese. The tom real space was a No-

Billy Mitcheil was a wonderlul man, a man ol great vision But a man vith vary bittle patience. He tramped on so many toes Held in chack he would undoubledly have been the first chief of the Air Force 9

over of the Misraelas or somewhere and that she was farced down on some Japanese island

Binnergi da tre balene 1 (herk ne jul eret daso 1 mel houdo a her eau ante daso 1 mel houdo a her eau ante francisco e la construcción da la construcción da la construcción da da la construcción da la co

Onver Lefs talk about one of your mest recent explosis—your first price in the ScartMic Antorican International Paper Arciano Diretest

Barnaby Actually that story began de-

cable ago in 1959 i was reaching a billion giding magazine and i taw hiny were holding a people argitize context. So i made one of my paper platfes put it in a copie box-hand the box up with oction plate to hold it in place—and sate it off it look senond to zere.

Drew And what kind of plane did you design for Scientific American in 1967?

Onver Did you make paper explanse as a young boy?

Beindoy "in a the annexe of 1001 My here Is an entrance arrynein" has used there Is a memory and a service in the used of our on Disadeup new Wall Direr. And the annexe is working the new service is a part of the service is a service in the service approximation of the service is a service provide the service is a service of the service provide the service is a service of the service provide the service of the service is a service provide the service of the service representation of the service representation of the service representation of the service of t time I had been headed toward an art ca-

Denne. What tormal art training have you had?

Bernsby During Ibs years 1907 and 1908 I was an avening class student at the Art Students League in New York Day I was in the antiques class where you worked with relacional convent Greek studentizes.

Own: You yoursell sculpted the large brotze contriemorative plaque of the Whigh bothese sected at Kity Heak and dedicated on the soliwith amwentary of their tight in 1862. When you made that plaque what did you work from sected or wile was no longer alwar and Wilbur was line only?

Banaby Well lots of photographs 1.8 rever kroyet the dadeation in Decomber the general topo of conversion if that day at Ktp Hawk was "Why did help have to poh December 177" It was batter old. The lengerature was should have fold The lengerature was should have fold the lengerature was should have fold the constru-

Down. Now that you're seen the attemp parcarans of averaging space of high what is your sectorial the begins grant of Bavado wolf them if the begins grant of any table to the averaging to the part of the averaging to the part of the averaging to the would the terture to averaging about me enclared the terture to averaging about me me they you can't washifts buildy dow'r with the bah water every time you ward to go screwelleni it is just too coefly ingerdiesi ofbow much weethwe have Bat I admit the my stagte sto the facture has never here you could I can here fail for

Ceese When you may you "can't also that ter 'you'rs speaking iterally aren't you? Banaby I've had some trouble anth oyo

Oteon' Somuch so that despite having built and flown your own glider at the sigle of potent the Navy held off giving you your warm for many many watter

Barnaby Yooh And in tact Laimost didn't get rithe Navy at all thanks to the physical Once: That was a 1907?

Benatty right i har applied to the US have Types of Party Copy I are wide to call Types of Party Copy I are wide to call approximation and induction i wert in the sub-thermodul call calls i wang/the developed These of types attents Subdown These of types attents Subdown These of types attents and developed Tope hardward types attent as a sub-thermodul type attent and ablese down programs the sub-thermodulant sub-thermodule types attent ablese down programs attent and ablese down programs attent and and ablese down programs attent and ablese to the sub-thermodule to the ablese down programs attent and the ablese to the sub-thermodule and the ablese to the sub-thermodule and the ablese to the sub-thermodule ablese and attent the thermodule ablese ablese to the ablese to the thermodule ablese to the sub-thermodule ablese to the thermodule ablese ablese to the ablese to the thermodule ablese to the sub-thermodule ablese to the thermodule ablese the thermodule ablese the ablese to the thermodule ablese the thermodule ablese the thermodule ablese to the thermodule ablese the thermodule ablese thermodule ablese to the thermodule ablese the thermodule ablese the thermodule ablese to the thermodule ablese the thermodule ablese the thermodule ablese thermodule ablese the thermodule ablese thermodu



part to the Bioplayn Navy Yang the induced in 1 hadnin recented all any wave i though each may audited (2011 WatT) may be provide the second of the second of the Bioplayn Kay Yang and Table (1 bioth and all pool of down on the cleff is load, and the biothest at it and second of the second of the down of the second of the second of the second of the second of the grave (1) each all there is no seed of its grave (2) is set all there is no seed of its grave (2) is set all there is no seed of its grave (2) is set all there is no seed of its grave (2) is set all there is no seed of its grave (2) is set all there is no seed of its grave (2) is set all there is no seed of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there is no set of its grave (2) is set all there

Other School dd you gat your wrgs? Benety Tonalis Louro down whi stor cale. The doctr toots i dock if the and sad. Bennity I i thi you what II do You ie ms take you familia wat and I i wron he waeke on your eyes. I and "Sold" So I had my tansie doct That is how I got my wrgs twis over family four years dd when I what had the tansies.

General Checkmann Layann the charces works you like to by on the Spectre Brutter? Banneby I would like to be may fifty winn younger and durin 1% is. No 1 Cont From Wass Check WoodsH-Johns who minis last gass when a young leaky walked by said "Oh to be eighty again?" I would worth to a listic last of that the winn you like about heads Space Shutters I findy may be about head Space Shutters I findy may no upper behavior for the span norEditors in sets: Rendersholding have deep been administely symmetry on have further and the outs often out in more that and have sets and the start of the sets and the set as and the methanism and the parts large of further these of methanism and the sets of the set of the set of the set of the order of the set of the set

Branne of the 4th represently reported for prompty long to the line line a series of data in one of the report. Also matters perspectively and the reporter month, and -monte -montpersons - days many public line between the following help the folgoing series adore, as present the following peper, one of the next elegent complex of perspectives and more works are independent of the series of the series of the series of the next elegent complex of perspectives and more works are independent on the series of the series of the next elegent complex of perspectives and more the series of the series

PSI Burn: A Study of Physiological Deterioration in Parapsychological Experimentation

BY A. PAUL STONEFINCH, O.D.*

Cod Diemon N'C.

ABSTRACT Anextheal accounts suggest that the use of payetic powers is often accomparied by suspinassor and sometimes fault ads effects for the powerfuncts. In this accuse of equivatory experiments, subject work (such as barfler saving de grees of physical pathology to a result of pic specimentation. This has some toturnant multications for programschological results.

INTRODUCTION

Since its lagaritizity, pure providing this form invalided by the "website (File)"— the gravitation larger in performance incer all propose under by indicated subjects. More research fore, there been directly the thermal ensures that is the "been directly and the thermal sector of the thermal ensures that is the "been ensures the product billing is a transmission of the the sectore interver builting participally (i.e., Core for the therm substances and product billing is the sector of the secsore interver builting participally (i.e., Core has the sector substances and the sector of the product of the sector in the devices of circum the sector of the physical publicity.

The Biletihood of this connection was considered by reservictors at the Spaced Man Genare (SMC) after a rounder builting appendic to produce a ware humo damage. These experiments were designed to not the variations way physical damage might result forces performance of pepther only.

RESEARCH PLAN

C.T. Tart recommends what he calls a state-operfix approach to pol experimentation.¹ Consistent with this resournetabelist, a specific state, North Carellan, was chosen for the experiment, While there are other more uperfix states. North Carolina was the only state conversion to Coll forming house of the Specific Man Conver-

To prevent, may out-of-body experiences (CBER) that sight occur, samdard fene-agenta (FAa) were employed: a ulking bear and two bos constructors were kept in fitting occurs and the adjustra thermath all de experiments.

Four standard pasturks were selected FSSE firsting, remore viewing, and psycholanesis (PK). A fifth pasturk, new trivit, was also explored after one of the subjects explered dreams as experiment.

EXPERIMENTAL DESIGN

ESP Card Gassing

Standard 10,000-card runs were used with four subpress, all ausdents at nearby South Vergless Wesleyan Acaderes and Institute for Julie South.

A security pressure of the second sec

Malana

Two bails of the sing year exployed - menter and "simple-an-oil particle" (LAGS, modified of barlets, "Note Many and particle and Change Barradiantheous performed barlets and the particle of the simple simple size of the barlets of the barlet was divised barlets, North Carolana, while the barlets method is a fourmost behaved junctivability the barlets method in a fourmost behaved junctivability of the barlets method in a fourmost behaved junctivability of the barlets method in a fourmost behaved junctivtal and the barlets method in a fourmost behaved junctivdiant the barlets method in a fourmost behaved junctivdiant the barlets method in the barlets method in the barlets of the size of the barlets of the barlets method in the barlets of the barlets method in the barlet method in

*4. Final Strengthenists on prophetyre for Daniel Lewise, a first-dense surface and admitting assessments who have its North Condense. The ordering in Pro Parent organality approximiting The State. made entirely of recording tape, was designed and built by James Davis of the FRNN. The harmonick was stolen troop the Raya residence for are in these experiments

Remote Viewing

In these presences, the originary users backed is a right consinging an one, taked humintums, the first is shown. The remote law was provided by news, Randon, Harrison, M. (1999), and the trade of the remote that the take of the take of the take the stars of the take of takes and the take of the originary of the take of the tak

Psycholänesis (PK)

Subjects in the FK experiment were asked to influence the heliverian of ordinary disc in a run of 200 tosses. The experimeniar was drauged and carefully historia to perwant manapolasion of results. Four subjects were used. We farget what else we thil, but we gas some results, so it doesn't market in

Medical Examination

All subjects in each superimum were given complete anothed executations before and after the experiments Records were made of EEG, EGG (2006, 2010, 2010, GOD, GTO, GSR, RO, Thought Pressure, Terminal Veherity, Land Strew, and DOA, P values were determined by urinobios.

RESULTS

25.0

As expanding an object of exhibition eigenflower (R2P has been encould hitting the market where of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set dotted of the set of the set of the set of the set of the dotted of the set dotted of the set dotted of the set o

icohor

Medical analyses conducted before and after each heating session revealed important changes in patients paths is a such following courted a faithfules

Synaptores Before/After				
Herker	Schor Hedang	Atur Heiley	Śtęritczny	
A	warts trench-bead	toli bran kaiaa	p = 02 p = 008	
DE	huadache tronosi	dead eardapaakes	p = 00000000000000000000000000000000000	
G	peralysis fin	disfigurations cataronia cameer	p= 097 p=.05 p= 004	

For Education A, G, and H, rach spraphs reals area slightin the miniple miniple constraints are accompared by loss of analytical ability and improved sense of instance back of charar subjects secremin quite pleased with their besiling.

In the case of basise D, as additional survival analy you instanch disinvegithe uniperior sudden parong. The even of the death indicated parametrial agrans, as no variabild pachasing at cases cound the found, At the time, Noter Marso was performing plar sumitarily higher threadsog percentant, attempting to care D of a baselaght, when the is the bolf of Dhardi anddenis terrefords.

Remote Vewing

As far as anything made score, viewer responses with inne-matched to the Random Throught Generator's reapat. Here are some sample responses to RTG targets



With each of the four PK subjects, possible results were

Indiando, J.M. S. "EEF and Consider Obligation on Stream Processors," Jour Soly/December/Adding v. 702 1008 0103 (2008 program). Partners, J.W. Torces Cycles Segrees of Economics, "Sphere: United Taxan Internet, UNIV. 2019.01.

Arels CD COTR Catalog, H.H. Vicksi rescarse and Ford second citizensis for stability on the second of the second secon

A second s

CLOSSAR'S

The Barry Monthly of Solars 180' unklow CO



where we wave salarg 1 got a intend, bright excession of pleasure, and then I was out at the misty contraction moving away among the placked arowed

Feer them can be starway. They were pering there way down it disclarly it thought they way destimations, but the furnition of the starway of the starway of the anytoxic cannot be starway of the starway of the beam minimum and the starway of the starway of the beam minimum and the starway of the starway of the beam minimum and the starway of the starway of the beam minimum and the starway of the starway of the beam minimum and the starway of the starway of the beam of the starway down the starway the prime of the starway down the starway of the prime of the starway down the starway of the prime of the starway down the starway of the starway of the starway down the starway of the starway of the starway down the starway of the starw

They were shart as children but havyed, with nerve checks and saliny artis Stanty people, unsugmented for Loc coy levels. But man like that had cochack here long app paying for it as inclused livitines. I felt as though I was witching my own anceston.

Lex shouldn't have any cay at all, by the usual rules of pignetary evolution. It's a small planet, 0.21 Earth masses a third goo of gravity Bules of tharth way we * But our sun, Bets, is a K-type stat, redder than floi. Beta closen't heat our upper ofreport pages. Ever then Lev would be arioss except for notatients of birth it started out with a donte class of gas, Let as Earth did. But dim old Bets didn't blow the atmosphere away and there warn! colf to boil away the geases So they stude Inter money fran on Earth The words moved dust horizontally exposing crustal rock. That upset the exostatic balance in the surface, and sold open taute Voipances Betr's wan light also never pushed many heavy elements out this fac so Les in attaction-living-and hope for the beet

One of the offworlders came up to me and said, "You got any speakers in this place?"

Ishook my head. Maybe he cidn't know that getting a sendup by tying your frontial lobes no an anmefis is illegal here. Maybe he cidn't care: Ancester or not, he just locied like a misshapen dwarfs; me, and i wated away.

Evaluate was describing life in the flatlands when I got back Leopold was raps the worry lines in his table nearly gong Extended does that to people Silver instants and strengthrowed to be average taking them right out that she want much impressed with day like. "Furnisated are gure and exetual Benytood has a got "the mumulaud "four re-nght that getting around its harder—but we off gide in the updatifie. In sumfort file harawo".

'Speaking of the tarmiands," I said, "an old triand of mine came out here two years add. He warted in on your oberations."

"I was hiring like crizzy five years ago abat does his name?"

"Lon Kramer Great pixt "

Leopoid shook his head "Can't remembar. Ha's not with the now anyway Maybe Philano oot hes."

Our drinks arrived. The steward was breable, though--Rinking was right behind him.

"You haven't answered my gram." Rhing said desctly to Lappeld, growing us I guess he didn i Sgure I was worth any mos lime.

61 looked into the Lair again One of the Dragons was produling at the other, making low, whullting sounds. The other Dragon wheeled and headed for the entrance and I saw my chance?

"Dight need to," Leopoid said tersely "Bell out 11 give you a good price." Phang casually sank his massive fank on our table edge. "Hours getting too old."

Something flickared in Leopoid's eyes he said nothing

Takis "Phang vertion midly "market's telling"

"Maybe." Leopold eard "What you been patting for a kio?"

"Not saving"

'Tight lips and narrow minds go together'

Rhang stood, his banel chest builging "bu could use a little instruction in politie ratio

"From you?" Leopold chuckled "You paid off that patient clerk to relasse my gene configs early Was that polity?"

Brang strugged "That's the past. The present reality is that their any be sn oversupply of that show any be sn oversupply of that show any failed with big enough for two big operations like ours. Therein too much---

"Too much of you, that's my problem Life off. Rhano "

Tomy surprais he did He notided to me growd Exclaing and gave Leopold a look of contempt. Then the was gone

I heard them first. We wells taking one of the outside walks that contactions around the Angle spins, gawking at the phosphoned streads below A stone stok clasbeind behned us I saw have mer cluck behind a jutting ledge. One of them has correlating in the hard that juttimed

"Ru te jumpy Drake " Evelance said

"Maybe" to occurred to me that if we went over the edge of this spine, hundreds of markers into the thorn scrisbble belax, if would be very conversion for Philang. "Lot's move on."

Loopold glanced at me then back & the mey shadows. We strated along the trail of violamic tack, part of the network formation that made the spire. Rough black patibles stapped underfoot. In the distant stafielded inght, skylight ophered.

We passed under a phosphor At the next tum Leopold looked back and said. "I saw one of them, Phiemois naft-head men."

We turned They followed "I think i know a way to stow them down "I haid Leopoid looked at ner. We wave thing to avoid stopang in the darkness and yet make good tems. "Cellect some of these obsidiant frage" Lead

We got a bundle of them together 10e on up alread? I see! We were on a nerve ledge I serve back the the shadow and wated The two men appared. Before they noticed mit I inner the decision high mtb the air hilder gravity it save a long time to them to corres back down I in the dawnake the two chief couldn't leve them corrleg.

I theapped out into the wan light, "Hey! I yeard to them. They ecopoid precisely where I thought they would. What's going on?" I used to shall

The biggest one produced a krife

The first rock hit coming down from over a hundred maters above II alternmed into the boulder road to ten Then those more shoulder, baseling the second. They both casesied

I turned and humed along the peth it they'd seen me throw they d have had sme to dodge it was an old schoolboy blok, but it wofed.

The implications, though were solvering thilling feit this way, my new job might not last long

I was bagging bettes in the covenues Paramost Liv when the watming bucktor in my poolist went of A Dragon was coming in 1 still had bans, but not much I decided to finish this particular bag nother than abondon the bagging peatro. The last, bit of fuld sprayed over the heap of bettes and bogan to conceal instantive dis bimmendously high surface tension drawing it around the impoular pite and sealing parlandy I holdered the pure leaving the beg for taker, I turned....

A slow flapping boom Outside a wrin-

Well i'd fooied around long enoughnaw I dived for safety The Dracot's Lair ways caronized with a thick collection of nexting materials. Nono were very pleasant to burrow through, but I didn't have any choose Betred me I could hear the Dragon mowing around, if I didn't move out of his way in a hurry I might get shapped on The emergency crute on my back tangled in a branch, just as the stench in this Lair intersfied literned out of it and want on if d aust have to be sure not to fail from any great skimmer was parked on the lodge sist out-

I stuck my head up through the nost to udge my position. The bulk of the Dragon was silhouetted against the glare of the sky which was clear of too today. The beast seemed to be prearing itself. That was something i never thought they did outside of the mating season-which was sin

I scrambled backward into the next. The burger at my pocket wont oft acam. Ihough it was supposed to signal just once, for two seconds. I ligured the thing must have bro-Lar was supposed to have been far from home not now-which meant that me quest didn't really belong tiers. Dragoni never used the wrong Law unless it was the 210000 500000

Hownod Why did that keep coming up?

Suddenly there was a rush of wind and a side was out of! I poked my head into the

Another Dradon was lumbering into the Lair 7hs was really impossible. Two Drag I was sure they were poing to start lighting parity score as I burrowed deepes moving toward the neuront wal

My elbow caught on something. Cloth 1 brushed it away, then looked again A Disconschool uniform lies my own it was deepty beneath ms, hall-buried in the nesting material | caught my breath, then poked at the uniform Something alitered near the empty sleave an identification pracelet i picked it up shalled it in the light, and mud the memo on it Lom Kramer

Lom Kramer! So he had been in Leopoid's group after as But this will didn't repten why he'd left his clothes here

I tugged at the unitom, dragging it toward me it was imp but tangled in the next, I writed harder and some king, pake things ratied out of the slowe-

I wrond I was auddenly aware that my the one that had brought him here.

I saw my chance I ran across the Lair grabbed myskimmes and look off 1 moved out, pedaling furiously away from the

things The landscape below me was mission I disconnective Lar I birrived II didn't go away but got clearer Thoro was a cloud of velowish dust spreading high the Lains I could see Where had it come

I sneezed passing through a high plumo

Then my view sour egain and I was looking at the sky It dawned no me ... / was clinaino to a Dragon's fail It occurred to the Dragon at the same time He let out a tongue of flame 9

and I sneezed again 1 brought the skimmer out of the cloud, but by the time my vision and choke all at once, until the salamment fatured as I fought to stay in control, my eves sheaming

i know what that dust was

Nothing affected me as barcely as really allergic to

I stopped pedaling

It attacted Dragons, too it set of them meno urors

But when was the cleaned stuff coming started pedaling again, legs straining I harred to get a befor your

A firsh of light needled past my head. and 1 know Three skimmers shot into weak by a blaser. My skammer lanched widly, but I held on and prought if up just as the first wearing a filtermask. Attached to the skrimer were some empty bags that must two held the putthurth poler. But whill

was looking at was the guy's bisser. It was

I revised into an updraft pulling per my attacker prebteng for my own beaser Tho skimmer spared beneath me, then campoord atto a sharp turn. It was loo sharp. The guy furthed sins ght into the path of his companion. The two skimmers cashed inceller with a sitisfying sound. then the scattered parts and pilots tell stowly toward the treelogs. Seconds later

llooked to the trad man just as he carro up bende mo. The bastard was priming, and I recognized that grin it was Kwalan

He noticed once altably and before I qued of my skimmer. The petals roled usalessly I was out of carerol. Rhung litted

I had exactly one chance, and this was to out back to the Law I'd ant abandoned. I was abortly higher than the opening to I gided in backpedaled for the drop-and crashed streight into the well: thanks to my maned medials. But I made it in place skill able to stand up and brush the dirt from my uniform I stood at the mouth of the Last starses out over the forest, considering the long climb that lay bolow me

And sust than the Dragons returned

Not one this time-not even two Five shadows wheeled overhead, fwe huge boasts hoaded loward the Lier where I was notifi on top of mo

Lisent back just in time, scrambling into the blue shadows as the lint Drapon theread to the lockse. It washind intede speking, I moved back farther its four friends want onthi behind. I kept moving

Weil at least row I knew with they were dong this Kwalan Rhang had been set ang off their making urges by dusting the Dragon with pullbush-poten, messing up ready nasty tompers. It made sonso. Anythread lease subline might have gotten Rhearing map a lot of trouble. As it was, he'd doubt iess by sately home waiting for Leopold s Dracerys to kel off Leopold's mon

Out in the covernous Lair, the Dragons began to move around, produing at each other like acremblemice, hopkno ther any courting sounds. The ground shook with their movement. Two seemed to be females, which supposted that I much look investi to some holders between the other

I furnisied at my pockets for something that might be of help. My wanting buzzer had shattered in my rough landing. I thread it means I still had my bapqing gun, but it wwithit do me a lot of good My biaset seemed okay I unhoistered it and began to move along the week if I went carefully, I ...

ing the sounds of their efforts thundering a bit of ground. One of the Dragone retreated from the battle-apparently the loser I prograd. He had moved deactly m

A huge tail pounded at the ground near me and a temple darled backing my way go And I was getting tred of this T decided to warn her off. I made a quick shot at her back, niccing her in the hydrogen doma She aquewied and shuffled away confused I went on

I slopped There was a hosing sound the Dragon I'd sust shot She didn't appear to be making the sound, but if was coming from har disuction. I peered closer through

Her hydrogen doms was deltating

I nearly lauched aloud. Here was the Dragons, leaving them stranded, unable to By while I climbed down this scale without fair of pursuit. (lifted my blaser and aimed of the make neurost the rear of the Lass A new mes than a hit. Hydrogen hissed out lample, and another male who was deeply

One Directory to one. The others were road ing and weddling. The Law was full of the beauting assard

looking my way, but he was blocking my ext immediat closer and iffed my biaser

I flang myself aside just as he bellowed in the should the second his heard toward me. missed his hydrogen dome. I made a clash around his rump just as he apun my way tail Issing against me. His dark little eyes narroved as he sighted me, and his throat

My fime was up. He was about to blest me with his throat forms.

That was the wrong thing to do

I saw if coming and ducked

The cavern shuddered and blaw up. The orange explosion rumbled out, california the Dragons in a huge rolling frame. I buried most in the needing strends and cosplexit serged, my wrists burned

The world spuri beneath me. A teadal of anoke drifted into view just below mingled with flaming bits of nesting materies and the leathery hide of Dragons. Then my view spun again and I was looking at the sky it gradually dawned on methat I was clinging

It occurred to the Dragon at the same time I saw his head swing toward me snapping angrity His bely was fashing tongue of flama, but he couldn't gutte get at me Meanwhile. I held on for my life

seemed to be foo much for it. We were drocumin slowly toward the trees, as easily Editave to deal with the Drapon afterward

I sped something name from the trees high-fying builelbird ifs transparent sheet rooking benealth its birmpiles booty it was a I kicked on the Dragon's tell dragging # scieways The Drappy lutched and epur and hen we were directly over the snapger closed

6One dragon to go The others were roaring and wadding. My time was up. I froze. Rhiano aimed his blazer at my head. His loos jerked convulsively . I denced away as a daggerbush snapped at me.

in a second, something soft sumpled beneath me I had landed salely slop for snagger I coaned my even as the Dragon-having lost my weight-shot suddenly upward. I watched it gilde meter they looked down at the shapper, my service I petted its write rubberry body My worshi riding the balloons in the Ange Taxem locked forward to a competable traits to the

"I like your shrie. Hid."

Lamped neerly losing my place on the stagger The visice had come out of mid-ar

was banking around behind me

Kwaian Rhiang had returned in his

7 said before I'd too what Leopoid was cuting the high air "After today | think I'd pay double I could use someone like you

I lait my tape harden. "You besterd

He shrupped "Gave you a charge to prove yourself. Come on, you're washing your time with Leopold

And you're wasting your time with me " He shrugged again, uttorly surp of himself As you wish I gave you a chance "

I noticed "Now kist oo invise

back alwe, do you?

stor at he want and smed # at my head fraction, and I breathed a life entred

"No." he slad chatantly, "why kill you stracht off? Skow clearths are more interast

He arred at the enapper liftle punctured it i'ld drop into the trees. If was a long fall, I

I growled and grabbed for the gun at my waist, bringing if up before Rhiang could started lauphing. I looked af what I was holding

"What to you croing to do with faat?" he said Bag me?

It was my become used, as not 10 dropped the blaser beck in the Lair But I

"Tixacity" | ased, and free

The gray fixed aquinted across the narrow gap between us sealing instantly over Rifsang's hands. He fired the blaser but to let the weapon break away It fell out o 9072

His rives were wide. He was considering

But I didn't fire at his boad. I put the new mootement tests. His leasurement convulsingly They slowed Rhueso berran te whimper, and then he was out of control His sautriner turned and glided many as he 0006

I turned back to observe the freetons Phang might be beck but I doubted if First he'd have a long walk ahead of her over unpleasant terrain, back to his base

if he could maneuver his skimmer well enough to land in the treetops, and make

frominees rise about me, and presently the dismounted, leaving the snapper to bob back into the air and began to walk gin svoiding the spines A daggeroush snapped at me I danced away If was giand to be a rough walk out. Somewhere same problem. And he wanted me doad

But I didn't have as far to on DO

GAME

me 380 dolars in his fat. And he wouldn't tel tre where he got it, ether---me his own grandson who s going the need a new body one of these daws.

So we want body shapping

Senser I guess you know how it is with the poor Everything costs more and is not as good When you are poor like us you don't want to go cowitiown to Salah Booy Shop for example or Lond & Reyfors Relate Conter not upter flags they I augh al you or amost you for instang. You simply don't thop here You thop in your resplications.

In our case that means that we bring our business to Dapper Daris Living Models table which is located at 103d Braat and Broadway I im not fiying to get that company into trouble. It just happens to be whose we well.

Maybe you've read what those places are like. Pterty of neon three or loar goodloaring bocker in the window julk stade Aways a coopie of talestnen in sharp salk teltrag place on the vakesphare. These selection must sell to each other bockase loarer one answere elies in them.

We variesd in and stanted locking over the goods. One of the satissmen came drift ing over nice and easy smilling while he was tail 50 best water.

"Looking for a nice body" he asked

No just looking for a lourth for bridge 1 sid him

He laughed I was a very with follow "Take your time " he said. "But if there is anything specific--!

'How much is that one?' Grandlather axied

¹¹ See htt volle e man of taste: Ine seinema sud. There is our Eron modelpart of Genetal Synamics ines scrept (Seneration 1999) and Seneration (Seneration (Seneration 1998) and Seneration (Seneration approxil Genetal Cay Baste scooper a model Ban de youlescellum² This base approxil Genetal Cay Baste scooper a model Ban de youlescellum² This base model Ban de youlescellum² This base model (Seneration 1998) and the scooper a model (Seneration 1998) and the scooper a function (Seneration 1998) and the

How much a 27" Grandlather asked

I forgot to memory all comes with a tenyear guarantee on parts and labor backed by a Good Housekeaping seal of apmovel.

"How much?"

"Well as this work will's having our annual degrance sale. Solely because of that I can let you have this number for aginan thousand rine trunded dollars below assant of lat."

Grandfather shock his head. Doyou at sually expect to sell that thing up here? "fould be supprised." the selectran told

"For eighteen grand rid pay me to de " my grandlather said. "You got anything cheepon?"

The salesmen had planty of chooper models. There Size a Benealt-Bolese Honter to \$10,000 med a Socony-GM Bergman for \$6500 med a Socony-GM Cathida Chrysler Go-Mon who plants her and glass eyes to \$2700 and a Toosa herument Venezuaator whotext vocebox geocamiter or platein convertion unit for \$1685

Hell I wasn't interested in a new synthetic anyhow Grandfather seat. You got a used-body department?

"Yes sir we ch

Then show me some good retreads

He look as into a back new here the wall, loo bottes are dischargered her wall, loo caretee athere strenger. The wall, loo caretee athere is the strenger thread to be available athere is the strenger thread to be to storp-deft. There easily cogif's bio a loo power with a mean head the cold in duck. Boottee with a mean head the cold in duck is bodies here there is not strenger at the appropriate cut of parts fourth a lood in duck the strenger back and the strenger of parts fourth the week back and the strenger of parts fourth at the strenger back and the strenger of parts fourth the week back and the strenger of parts fourth at the strenger back and the strenger of parts fourth the week back and the strenger of parts fourth the strenger back and the strenger of parts fourth the strenger back and the strenger of parts fourth the strenger back and the strenger of parts fourth the strenger back and the strenger of parts fourth the store then here back and strenger of parts fourth the store



We hazh't bein expeding the interesting to be potybuy we hean't available thing like this either I thought Grandbatter was going to thim acound and match but of that above But he don't. Braking herhoust a fille the potekt our is pointy good-backing synthetic with an contraded arm and a log impang. God howser twere no beauty but at least is chint licek as if it had just been build out of a time meck.

"I might be interested in something like this " Grandhither sized cautiously

"You have a good eye for merchandree" the calesman load hwn "it yaat so haappens that the tota number will outperform a lot of the high-price new pase."

"It looks sickly" Grandfather said

Nota chanoli This is a prime obtpost, my doar sir and it ocress complete with woonstored heart availation type lungs heavy-duty liver and enriched glantis. This model corres with four individual statement and two fruncted text of Armauna finest inference What do you think of this live?

Well I don't know " Grandtasher aaks

But the salesman know it took about Mteen minutes for him to sell the lopsided tody to my chandlather

b) get a one-month guaranties on metwade My guardiather got monither following day and if batted him three weeks. Them the heard began to nace and fulfat one know its/, two/ed. guardianties and following and the other three only worked partners. A long patch they out the interations statistic lasking and the lawt becaus to shrink.

Geendlether is in lised now and Date baunders asystem is a lise to day thing. The company work in state good on the body They got ecres pretry refly disases in that connect of thereis and our block legal advisor tags we could sight if in the counts for on years and not be sure of the automate. And in the meantene. Grandfalher would be dead

Bo Tim verting by you this and pertoining about the second secon

OWW Publicatores International List, imagin to apert Quite Disultato Company hus two display programs for DMM which are established to theregarine ceelers. No CMM can be observed by avring to Mr Grand Strenberg, Quite Catalation, Comenvol Stit Changer 50, Providentian, Common Mil Changer 50, Providentian, ComBut that bengs me to the second reasonfree restory or, to resembling if over withmy bucktime. Senator and we all agree that my guarditative and all the rest of the poor have been contract any firms guarditative and pair and same to propose lines at the roll that we want any firms guardine to any or language that that shall have don't have we tagger that that shall have gonto on large encode.

Waive decided that if you and the other poople in power don't do something about a then we no going to. The time has come to take a stand

Ware going to declara wa

You may think the is sort of audden Sensor but is not node Youd be auposed how many papele have been timeing about this sort of thing flut each of ur has thought as wear alone and the ensigone elso was satellied. And now we lear that a hard of a lor d us have been thereing the alme thoughts as Grandatter and done a slow tam habout 4.

Before this we old?" know what to do Now we do know

We are simple men. Senator and we don't have any big thinkins among us We figure that all men ought to be roughly equal. And we understand that no lows are going to do that.

So our program is to kill nch guys: Do avery with them entroly

That may not sound very constructive as the tv says But to us it looks simple sinsolthoward and we think it be effective two

We is going to init her of in whem and here we can A date with not going to discrimneale when We don't can how the monoytar mode on what he users I don't the We TAU bace having a set at a big deg of intertion of the set and a big deg of intertions than we do which is under the ord are mean inter-motifs We I all out on the ord mean inter-motifs We I all out on the ord and the motifs and out on patient and the motifs and out on patient and the inter-state and ongressment to

So thank it is Senator intope you hap my grandtather II you do it ill maan that maybe you are things our way and will be glied to put you on the detened list and give you there weeks to get ind of the weath you've been able to decumulate.

You know whare to reach my grandfather. Ne you can't reach at all. However this, thing goes I'm drupping out of leght Dan't toffwir looking for the

Remember-berels a hell of a lot more of us than them are of you. While have been able to long this thing off bottom my grandbatter talls me-mere in the heatury of the world. But what the heat is port of the world. But what the heat is port on a first time for everything. Maybe we'll even make this time, pull down your Goden dow soft heat are new

i don't expect you'll ees it our way So here's looking at you. Senator---right down the softs of a oun DO



Let a low years ago 'dirgai hunting and encreaching covilation last ell tot destroyed the elliptic population in the south. They were added to the official list ell'endorgered species in the Christel Water.



BODY SNATCHERS

The extraterrestrials have returned to Earth.

kaong ingenaran away ne distang awarding ding Peoendi anata seri notentana tomba people anata anata anata ne di anata seri notenta tomba ne anata mantana taba antenan haza beneriti ha glandt serie manter tomora. Siman, emora terraga attecipare, sichangen gale cossal al glandt mora people anata anata anata anata anata anata anata anata taban serie anata anata anata anata anata anata people hogomate anata anata anata anata anata anata people hogomate anata anata anata anata anata anata people hogomate anata anata anata anata anata anata anata people hogomate anata anata anata anata anata anata anata people hogomate anata anata anata anata anata anata anata people hogomate anata anata anata anata anata anata anata ana bagan. Netu tabapati na al Mata anata an

BY CYNTHIA GRENIER









The sparse begin their purcey from their dying hatte Donald Sutteeland imports the top pod men Later he nearly auccumbe but raties to detays a pod (secord)



Produce the Bab Bab and directory Pak (such can test in a July Finmy clease has more to any lot have add in the Severet test method that of the These which is say that wand in the Severet test man that of the These which is say that wand the say that the line directory by Severet Severet and the say that the indirectory by Severet Severet and the Severet test man rows is consideratily more than more packaded means. There wands in the Severet Severet Severet Severet Severet and the Severet Severet Severet Severet Severet Severet by more chilling in that we get to serve start kind of a work of menders the severet and of them stocks of the severet severet packade the severet and of them stocks of the severet severet and of the severet and of them stocks of the severet severet and the severet and of them stocks of the severet severet severet and the severet and of them stocks of the severet severet severet and the severet and of them stocks of the severet severe



The day baseparent plants spin across light-young, chains to a fillendly plant Brooke Atents and Donald Sotherland face the Invasion with verying degrees of cool its their best freeds and spocess socherge bagets thereps



The humans try to escape from their transformed city only to find that the pods are in control.

Count Distribution Broke Advance, Loroard Nensy, and Litt October Studyes and the the second second between the store post. Each day help set har spoores, beet francis, store advances and the second second second second second particular second second second second second second parts. The humanity is to access from their transformed of the second se







The any pods complete their onth-long journal from a dylog horisand, coming to roat on the heat, green plants of earth in the fait oby of San Francisco, whing they are about to boing service heart

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HALLS OF WINGS

EXPLOR/ATIONS

By Alexis I and Anne duPont

In the aftert span of eveloar history, a logacy of machine and accomplishments has accumulated. Much of it works in the mocum of Amenice Borne mussume attempt to portray the whole history of which on others convey dery various aspects of it. For anyone with even the mission current of whole to even the mission current of whole to construtions a street through safety.

The most spectacolar multitle test the formanion and strategilters. D. C., website the Massaum in Westmagners. D. C., website the massaue announcempt the strategilters and the st

The second galaxy industs a selection of the large second set of the set of the second set of the set of t

Each of the 20 smaller galaxies is obtain catch to separate subject of them, such as Wold War I arrow an arrower, mitary ef rights, heircostein, and so on When taken mitclaft, they cover the and SpacerMassum is open hom 11 A M and SpacerMassum is open hom 11 A M to 5 Ha seven days por week, (openeor April 1 and Labor Days while 30 PM).

The next most popular aviation mu-122 pvei Least, and descendary as a the **United** State Art Proce Messen at Whysi's Patience Art Proce Messen at Whysi's Patience Art Proce Messen at Whysi's Batter and Proce Messen at White Messen at Messen at White Messen Batter at Messen at White Messen and Construction and White Messen and Construction and White Messen and Construction and White Messen and White Messen at Messen and White Messen and White Messen at Messen and White Messen and White Messen and White Messen and Messen and Messen at Messen at

Appears the hold is an annex filled chockablock with perter altorait, and art fects awaring their turn to shine agen. The reatoration shops are busy, with an estimeted 12 to 20 years, work for the





The National Arrand Space Massart of the Snithssnen Institution. Above: Space Hell





Fight simulator at the Frankin Institute Science Museum Selow Wright in Dight

measure values (in the energy way to be a solution of the events and the new protect of the events and the new protect of the events as they reliad of the energy first solution of the end solution. The the end solution is the the end who is the the end who is the end solution. The end solution is the the end who is the end who is the the end who is the the end who is the e

In particular the second secon

Wedley waynight oprimer the Ergentmethal Alercent Hascedistro Museum in Heire Contros Wascenistri part Minau-Berger and Part Minau Hascedistro Museum in the State Control and a set of the matterness of the set of the matterness of the set of the s
rush to hold the world's largest air operation and convention

This already encourse makes the varies to even the half owned in the varies of the varies that half owned the the varies of the varies of

The series of the Research of the Series of Maryteed is the interventional backgoin of the Series of the Series of the Series of the Series of S

The Weight Database subcost Meson and any Value. New York South a the processory fragments of the South a the processory fragments of the South a the database subcost of the South South South South Control (1998) and the South South South South South Control (1998) and the South South South South South Control (1998) and the South Sou

Some of the emission interactions are threfted the uprovated in General Lowins Multibusiance and the General Lowins Multisulariang in their material state of the set haldcollare disease. Asks at the set has the set of the set of the set of the set end of the set of the set of the set end of the set of the set of the set end of the set of the set

In Claveland, Ohio, et the Frederick

C. Crewford Auto/Avietion Museum.

squeezed arriving too arriving according too arriving according too arriving according too arriving according to a second according a second according according a second according a se

The Old Planetbeck Aecodome, plan north of Rhinobeck. New York, racaptures the thrill and excitement of only aviation Aughenes of the Planeter and Lindbergh eras are used in the air shows on Safurdays and Wold Wei Lancattare social hemapickatise of the Sunday Attention show. These weekshold shows are approximately a could be approximately a set of the social will be actual and the social shows and the Will be actual and the social shows and the Will be actual and the social shows and the Will be actual and the social shows and the Wold Social shows and the social shows and a social shows

The Nevel Avietion Museum at Perce cole, Rioricle, does not have as extensive a collection as that of the Ar Force, but the small number of archait is beaufully



restored and handsomety displayed

craft (1911), so modern day lets of types

one corner, a PBY Cetains in another-

tally interested participants in Navpl pyio-

1992 Kets Hawk Fluer at the Smithscolen Gelow Milestones of Flight Gallen-

the workd over — anyoy taking securit living and simplanes more than enyoting else Admission is free, and the measure is open daily from 9 A w to 5 mm tecoeption Thanksgiving, Christmes, and New Year's Day

Parafiliance occupand contract corrent in scores of given limits. Where it there important of the score is the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the score of the Art operation of the score of the Art of the Art operation of the tight (the I disk, in horr a veneration Art of the score of the Art of the Art operation of the tight (the I disk, in horr a veneration Art of the Art operation of the tight (the I disk, in horr a veneration Art of the Art operation of the Art operati

The impactor is filled with movie sets, biblicands, and photos Modern waters? used to ourner! Taliwards photos Modern waters? used to ourner! Taliwards photos taland of the Arris located aithe Omage Gaung Apport about New miss south of Sama Bobbana, Ge III a open dirik exopertividendey, vair round, 10 An 4 of 6 rex Admission Adding 25 & presented And for locat descuber and amars, The

And on Galo propulsion function, the scheme Bayes and Rocket Center II. Space neglections and Rocket Center II. Space neglections and scheme State Terms Sch Center Vin MARX Maninal Bayes Terms Sch Center Winn Heiner Luisting are many motisk and deplays of trobles and space Terms Terms Schuld Bayes Terms space Terms Terms Schuld Bayes and State Terms Schuld Bayes Terms Scheme Center Scheme S

Outside the building visitors can walk through a forest of projectiles varying in size, shape and function from anti-tenk missiles to the grant Saturn V moon received

A two-hour bus sour of this Meishall Space Flight Center departs from this bulking sward intrem a day and rekee numerous stops where the traveler can she off the bus and Into a Skytab neckup or the Neutral Buogency Simulator where astronautic rain for space amelione

The Center, located on highway 20 in Huntsville, is open daily year round except on Chistmas Day Admission is \$3.00 for edute, children . (6-12) \$1.00 DO

For information on all awation museums in the U.S. and Canada, a useful golde is the Amerat Museum Directory published by Gwadiant Press, Inc., New York, 2nd adhlon, 1978

The distinguish Manager II Whath-Patierzon Below U.S. Neval Manager, Pensacola File

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matamorphosing universe suddarily cu

The world laded out around ian Ross the shadowe boated and seeffied and alkfaced past two caught in a bycknic wrid-tunnel and swept oway plat him learing him is obcome.

He sut now still queet too rackated to be

He thought perhaps clouds had covered

Theory wanty day (a) (b)

He thought perhaps 4 had been an ediple. Inal his deep concentration of his hopeless state had kept him from notiong. These are on an

No sky The ground beneath ten was gone He sat merely sat but on activity surrounded by nothing seeing and teeling nothing save a vague chill it was old now years chill low.

After along time his decided to stand and aid stand there was nothing barreath or above him He stood in darkness

He could remainter everything that that was happened to tam in his life. Every moment of it with absolute chirty it was sensitring his had been rollbetter of worse than memory had been rollbetter or worse than aryone elsawit. But he had tergotter all the datals many years in which nothing had happened during which he had wanted time-almost as a mute withress all the dail revoluted thes life.

Becomes an evaluate through the telephone and the second s

And he walked through gray spaces with the shadows of other bries and other places wwing post. The sound of rushing end as though the empthics. brough which he reaved was boing ponstartly flad.



and emploed anotessly without massure or substance

The intervent water and the the other the the second seco

He had never permitted another party to be thrown for jurn

The semiclinear the fast rank was well as back the crosses of Bayesis are to result to the source was back as the work in the source was back as the source in back of the crosses was confing to all deal data was back the source was as the rank the related the Table 16 performs and the related the Table 16 performs all controls and the performance in the source and all controls and the source of th

A coppled old woman came out of the gainy mast of nowhere and stood watching him. His eyes were closed or he would have seen her control

Aldar a while he invitted operad his eyes and some her standing in host of him he stand at hot. She was standing. At a lovel corrected below him its flough the invitible ground of the increasetant place was on a lower place then that on which the stat.

"That won't help rsuch " she said. She waan't sufy but neither was there much suppor in her tone.

He looked at her and immediately sloped grants

Probably sail got sucked in here the raid it was not quies a question though it had something of query init. She know and was goend carefully

He continued to look at her hoping alte could tell hern what had happened to him and to her? She was here too

Could be worse "she said crossing her erros and chifting her wardhi of her twisted ... If they is could version a source or a subsect of the topologic offer or reven one of those barry pre-training. The densi memory threads the topologic source and the source of the met was some kind of a interal lifet boy topologic source in the source of the that is the some thread lifet boy that is the source in the lifet could be the source of the the source of the so

He tried to speak and found his throat wat dry His vace carrie out in a croak. He swallowed and wet his lips. Are there many littler of other people were not all done T

"Lots of others Hundheids thousands Bod only known meybia whole ocurrthes full of people here. No animals though They don't waste if the way we do

Washo 17 Wrist?"

Time son Precious lovely area that's all there is just time. Sweet fowing time Animals don't know about time.

As the code: a subject statute of the terms will know which past and through thematic means a distant of the intervent of thematic means a distant of the intervent the ways of contribute or even control the terms of the statute of the statute of the terms of the statute of the statute of the terms of the statute of the statute of the terms of the statute of the statute of the terms of the statute of the statute of the terms of the statute of the statute of the terms of transitiong plane the term term terms is that the terms of the terms of terms of terms is that the terms of terms of terms of terms of terms is that the terms of terms of terms of terms of terms is that the terms of terms of terms of terms of terms is that the terms of terms of terms of terms is that the terms of te

Ian Ross ducked frighteried Their swas

Don't worry about it is n - the old woman start. Looked a lot files Looked during the Big First First the Plaque. then the Find Twe steen its like before Can'thurt you Name of it man hult you.

He thad to stand, found female' spill week. But what is 17

Bits arrogged "No cmit were there ables to bitme for two life there is become assund in here who can based, there day IF and no one of them IF I and cut and we ever meet again II be sum to lat you know Bound to taggers. "But her how geree rifmetry and and here was devolution in the successor. Wryce Maybou was I moot again Neurit harparam but it most, again them the parts has tested boy again. But it most

Bree souriad to walk away hebblerg away wardly lan got to his learnwith dithouty but as clarkly as he could. "Hay wart! Where are you going? Plouse lady don't leave me here all alone. Thi scaned to be here by mycet!

She etapped and turned tilting obbit on her bad log. Got to keep moving. Keep doing you know? If you taav in one place you dan't get anywhere. There is a way out

you vi just got to keep meving bil you India' She started again saying over her shoulder I guiss I wont be seeing you again I don't think to likely

He issn after her and grabbed her arm. She seened very starting. As it no one had ever touched her in this place during all the tims she had been here.

"Later you vegot to tail me some things whatever you know. I'm awfully scaned don't you understand?" You have to have some understanding."

She looked in him carefully. All right as much all I can then you'll let me go?" ble resided

I don't know what his ppened to me or to you. Did it all hate every and set detppener and everything that was fall was his, suit his gray nothing?

He roddiod

She eighed. 'How old are you son?' "In 37. Wy name is [an--

Bhe worked his name away with an impertiont gradure. That doesn't matter I can also sourced on throw any better than I do. So I clean throw the time to waste on you. You it learnithd too Just keep leathorg, just keep learnithd too Just keep leathorg, just keep learnithd i away out."

He made faits "That doesn chailma any, Wing" What was that burning dog what any thesis shakews that go paid all he time? As if to mark his cuestion a vagrant (kny phartom cases to of cassovary ske anmals diffact (freech) them She shrugged and sighed. Think its history (in hit suit) — I'm guissing you understand But I flyink its all the bits and preces of the past guing through on its way screamble.

He wated She shrugged again and her sience indicated—with a lond of helpiess appeal to be list go. Ihal she could tell him rothing further

He neddled resignedly All right Thank you

She turned with her bod log tembing the had sold with her weight on it for too long. And she started to walk off into the gray limbo. Within she was drinned out of light he found formalit also is a special operlight he found formalit also sold gray and "Bood taxe last' hours you."

He wonclened how old site was How long she had been here. If he would one time lar from now be like her. If it was all over and if he would wandly in shadows forever.

He wondered if people died have

Before he mat Catherine: Is long time be fore he met her not the landat who jold him while he was what had heppened to him and why it had heppened

They save each other standing on appawas added of a perfectively wild phantom of the Baths of Waarloo. The better reged past Them, and through the clash and adopter of Napoleon's and Walkington's forces they waved to each other.

When the sixing vision had rushed by



Isoung emphrais barkeen them this lacar ternshead (manual clapping his lands as if proparing himsels for a long, and/core taut pleasurable of long in advoces taut note aga but clearly peet han itsidle years, which have as borg and wid in ever a part of minors and any and any and the said was sain clinic optimetrith-cartary. Well was any it to called age to believe that, so good to see you

Ian Ross was startled in the timeless time he had wandwited through this letter had ancountered coolina and Berbers and Timesen trackas and start Dotts

an endless steam of hurrying humanity that would nother speek not stop. The men was something different immediately lan knew he was inscree. But he wanted to tak!

The older man neachidi lan and extended ha band. "Cooper at Justinan Cooper Achemist molaphysician consultant to the torcas of time and space. any yes small Do (percensin) you is not only yes mail to percensin you is not only need to itaumistican" Contamy I balantaky I non nee fail to the date:

Ian begin to sevacementing affect mything mempanese but the withy generative register and pessed on wheat dameng a torain. The meet result manifestion the one we were both privileged to winese were tooth privileged to winese were tooth privileged to winese moment at Weathon which the bala both periahal that bit chewed good and procefession and process at recent history, weathor have any?

Recent heady? Ion started to ask tem how king he had been in this gray place but the old man barely paysed before a hown invest of early paysed but

Burningly mensional of the maximum consistent in Barring and provide and advance invertee Tractions sound introde with advance invertee Tractions sound introde without advance and the sound interpret without advance and the sound interpret without advance and the sound interpret advance in their the barries of Woomfoot hough without in their the barries of Woomfoot hough without in the sound advance of heads on the advance advance and the sound interpret advance advance and the sound interpret advance and the maximum of the sound in the advance advance and the sound interpret interpret advance and sound the sound interpret interpret advance and sound the sound interpret advance advance and sound interpret advance advance advance and sound interpret advance advance

"He is not un eur et breach. He steppet, and las physicilist the gap "This what to like to lower Wr. Comper: What's hear period to ref? what's hear to be going any or bighteroot and last search acception what were in a last search acception what were in a last laster house of the with were in a last laster house of the with were in a last laster house of the with were in a last laster house of the with were in a last laster house of the with were here a long techniq a war wall here been here a long

The old mensipped ha am around large back and jogan waferg with him two gentiemen strolling in confidence on a summer attennon by the edge of a cod perk. "Duels comot air quite certect Do sociative behavior merk of he mai unable

to accept his desire; Accept 4, sir Lorge you and bacmation follows: Perhaps even obseption but we must run that his must run?

Is whenched away from him turned to face him. "Look mesler Lident want to hear all hear creatives" List to how where Lam and hear is done. And if you can t all me her leave me vicinal."

Noting same my pool mon loadies from a the load of a Clean when of the same and the same volume of the load part that them as any voltement of the load conservation of the proceeding and except wheat to he load of the occame the be cleated in occame of the same voltement of the load of the same voltement of the same voltement of the same voltement the unserver load of the cleated of the same voltement of the beauting respectively to market and the same to be an of the same voltement of the same of the cleated of the places there is a cleater of the same of our the same of the same voltement of the same voltement of the same voltement of the same of the same voltement of the same voltement of the same voltement of the same voltement of the same of the same voltement of

The world was vanishing as if all the sand had run out of the hourglass around hm, as if he were the only fixed and mmutable object in a universe suddenty cut foce?

from its time-anchor.9

places where nothing happens it goes somewhere it goes here to be precisit an measurboxe units--wheth five decided after considerable throught to call otherower."

He paused perhaps haping kan would complement him on his choice of nominicial size kan put a hand to his kinehead his boan was swimming.

"That's maane it doesn't make scree"

Tablace perfecting proof service I addance you levels into entry theory that the heat and the out data and a not weeter in a watched out dataned through the normal opportime continuum and notycled. All this has heat you are shorting per us in that part of the smalless that was wested. Enforces before a lease west

But what am I dono here?

"You torce me to hurt your feelings or " What am / damp bett?"

"So wasted your He Wasted ome All around you throughout your He unused choosers were being loached out drawn away from the contiguous universe unit free put on you was intensible Than you wer an through puiled toose fee a piece

of wood in a rushing toment a bit of chaft whiled away on this whild. Like Fabricoyou were never neally from You wandwird through nover seeing heart participating and so there was nothing to moor you solridu as your own time."

But how long will stay here?

The old man leoked and and spoke landly for the fort time. To avert the never used your time so you have nothing to rely on as auctorage in normal space.

"But everyone here thinks there a way out 1 know it! They keep walking signing to find an exit."

Foots Them is no way back '

But you don't exam to be the soft of person who wasted his life. Some of the chars ivo seen yes I can see that but www.

The old man's eyes gree maty He spoke with nithrain, "Yes, I belong hero

Then his samed and like one in a dream log: wandand owny Lundic obsorving phanomena. And then gone in the grayness of time gonged imbol Part of a glackal period skill patil (an Rose and he resumed the wells which glass) (2010).

And alter a long, long time that was timeloss but tilled with an abundance of timeto met Catherink

He saw hor as a special distances operand, the gray timbo. She was role a distance www.andhowabed on for a while watching the dark leadsh against gray and then becaded to change direction. It distill manter holong materied the was along with the mesonese respirating again and name.

The service of the Titlete: warfied through tem

She did not move, even though he was

When he was oute close he could even that she was stang cross-legged on hotinghesis she was askeep her hood was propoid in one hand the bracing with supported to hat when Askeep

He came right up to her and sold there emply working the sinked Shewa like a lad the finality. With her head tubled he saw the Through the cupped hand our expl hall han lice he ockid hand our seven back with lice he ockid hand a seven back with lice he ockid hand a seven back with lice he ockid autor through her her weak brown our durin short her even were closed he decided they workd in blave.

The Greek Sonate the Age of Periodesmen in a crowd-property ownerssceering at Lycurgus's extrations in behalt of socialism. The shock world shield near not were fair return.

Ian stood staring, and after a while he sat down opposite her. He learned back on his arms and watched. He hummed an old has the present within he dot not letow.

Finally she opened her brown eyes and stared at him

At and mamaritary terror startiament chapm curosity Then she took umbrage

"My name is Ian Ross " he said

"I don't care what your name ia?" afte said angely "It asked you from long you've been atting there watching me

"I don't know A while"

"I den't like being watchod; you re being very rude

He got to his feat without answering and began walking away Oh woll

She ran atter him "Hey wart?"

He kept wailong the didn't have to be bothered live that She caught up with him and ran around to stand in front of him. "I suppose you just think you can walk off live that!"

"Yes i can 1m sorry i bothered you Please get cut of my way if you don't want me around i

" I didn't say that "

"You seed I was being rule I am never rude. I'm a very well-manneved person and you were set being inauting."

He waked around her She ran after him 'All nohe okay maybe I was a kitle out o

Now It was her move "My name in

Catherne Molner How do you do?

Party rich while your brand lotter?

"Longer than I wanted to be here that's

"Can you explain what's heppened to

He thought about it. Walking with esmicate would be a mere change. Lit me ainly you aproaching. Tan Ross and beginning to state all toward the phartem image of the Hanging Gerstene of Betrytan working paid. Han "Did you waste a list of time offing around not doing much mayter weldhing thiveston a 107".

They were lying shown side by side because they were beed Notinig more than that The Batte of the Antonnee. Find Wold War wen all record them: Not a sound Just movement. Must fog furnetess tarke share to the sound them. Some compare left ying in the middle of normani-sland They init been signifier for a space of the

It was there house it was an water of we a market of Bundays, it was a system to cananitizer it was the best of times it was the worst of times who cauld measure it? Then were no segmposts no town onters no granditure clocks no change of seasons who cauld measure it?

They had began to tak freely. He toth reagain that his nerve was lan Ross, and also said bahmen. Catherno Advinat again She continued his guess that her life had been oracly Than interesting there are the are plan. No dari tootser to alsy you thirtik i have nice checkborne or a tim figure in worit change sithing. If you want plan. Two pol 6.

He didn't say she had nise cheekbones or a tem figure. But he didn't thek she was plan

The Battle of the Ardennes was awriting

She suggested they make love



lan Rose got to his feet quickly and walked sway

Bra watched him for a white keeping him in light. Then the got up disided off her hands though brain was nothing on them an out of memory and botweet hem Duste along time leave after training him tout not trying to catch up to him after graping for trench tesphered him.

I'm sorry she gaid

"Note yros et of prefer."

1 offended you

"No you didn't I just left like walking."

"Stop if lass I did I offended you."

He stopped and spun on her "Do you thak I m a vispin? I'm not a vispin."

Sony " ha sed because he drift know the right thing to say if there was a right thing.

"Not your fault " she said. Which was the right thing to say

From nothing to nothing Thirty-four years did the property despetial aga far unmained unimotherhooded unlowed Catherine Mohar Janesville Wascerson Stragtooning the tarkets in her yeaking bas resting the cathear removing and ne folding the owesters in her drawers have ing the tasket with the status, with twing the tasket with the status, with twing the status with the status. The provide state and the following states of the provide states o

They lay side by side but they were not red. There was more to it than that

"I hate men who can't thisk past the plow" she said touching his hair

"Oh its just contributed to say after the first time i slept with a mail i always full these should be contention only.



relito say instead of all the things I read in novels."

"I think it's a very olever phrase " Even now he found it hard to touch her He lay with hands at his sectors

She changed the subject 1 was never able to pervey for phyrig the parts. I have ablestive no give between the furth and that i nger And have esternish you know You have to have a long reach, a good semail. This increases and that and the semail and increases and the second second to the second letters. Octave is good enough to chrone it term.

"I like prace playing," he said realizing how eally and duit he mast sound and imphaned (very suddenly) that she would find himso that she would leave him. That he remembered where they were and he amised. Where could she go? Where oxid he co?.

"Tokeys has d be felowe at particle who could play the pairs all the pric chaterial around those people. Except these days if and so many plans, not have many papels have plans in them in homes anymore. The kote grow up and go were and reactly takes besins and the kote doch buy plants. They get those electric grammers.

"Accusional guatars."

"Yes those Edon't funk it would be much batter for fellows like me who don't play over if it's accused outsine"

They got up and walked again

Once they discussed how they had which they have how they had be with hands hidded as the filled space actual than swell through was disarded of and their own "compare" the had sold for adout the turnish, the sold the man had to low the Benjamin Trankin, tur implot, a tright have been) had been leaded of the opport.

Once they decivered the quivisities exclusion in the Paria of the Resources because it was keeping pace with them once they denote the Developed of a Acbine provide the the second them for a unrant cought it. Circle they were privileged to encode the the the the second them for a measure of measurements more chosen they encode the second them for a measure of measurements of the other than the the Article second them for a definition of the the action of the the action of the second them the the base partitions. And pace the aimset the them partitions and pace means the action of them was categories the action of the action of the second the action of t

But when she isoled at him with a ganite smile, he noticed for the first time that her syste seemed to be gatting gray and pairs

loved him too But she could and met though the lists

But the could see mist through the reach of his hands when he reached out to touch har face

They walked with their arms around each other having found each other. They each nanytimes and agreed it was so that they were in love and being together was the moli important thing in that endless world of gray spaces. even if they never found then way back

And hey began to use then the bogether simple analogoals the mich day. Upon exercising We will waik hard to use to be an exercised with the last bobogs the hard to be a mise move quicy some hard have to began of the last letter or hard have to began of the last letter or hard have to began of the last letter or manifer move shart we will accompany shart and beaus and see how e leeps for a while well ong every carry some we can memory they the tabelier. They began to days the time basetime They began to days.

And sometimes his voice fielded occ. and she could see him moving his lips but there was no sound.

And sometimes when the mist clashed she was invisible from the ankies down and her body moved as through thick soup

And its they used they larve they be came alive in that place where wasted time had done to rest.

And they begas to fact As the workhaw leached out for lan Alexa in Bootand, and for Cathenne Mointr in Wappenin thay began to verigh from timbo Mabler could ineffer be created not destoyed but it could be deasserbled and sart whole it was neeted for entropol belance.

He saw har pale ddin become transperent Sha saw hio hands as clear as glaar

Anotheythough toolase it consoloo late levisible mosts of their achees were drawn oft and were sen: where needed to membrar tabletos. One and one and one separated on the wind and blown to the tarihest conners of the tapolity that was time and space. And could rever be rerelied And could need to making

So they touched, there in that wast limbo of wasted time, for the last time, and thedres events of the last time, and thedres events to the limbour of the times were good, to first, leaving her beford for the ments instant of timble classifiers and apart and existend followed Separation whose hope of hope.

There was the tantest keering white of mater filtering

There was the soundless echd of a de mensiong moan

The universe was poised to accept restored order

And then belance was regained, as if they had never been

Diseasements humbed in mile evertel pairs potenty obviously from a large the faither of the foundaring of Considerings the secdals potential events and the considering and the control of the Source the Region and Source and the Count of the Source and and the control of the Source of the Source and the Interface population the second source and the Source of the Source Interface and the Interface population waters that Source of the Interfaces order had look on the work of their Interfaces order had look on the work of their Interfaces order had look on the work of their Interfaces order had look on the work of their Interfaces order had look on the work of their Interfaces order had look on the work of their Interfaces order



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CONTINUED FINCIN FILSI 22

arms length, long tail with three blue linais, with audion audioverse most bri "chopect the size of a basketball, silvery then rad assemed to be splaring", "peen shaped size of a B-52, meaning, see with bandoulars", "round object with triangular section on top which was spinning like the streamers on a pole at the fair

Deeple the wavering accuracy of these reports the phonomena ware easily identified as Venus because of their reported direction and inswement.

But can Venus really be so easily distingrathed as Valice would like to believe? Some Lancus causa provide interesting and insulting results

Astronau Michael Collins (sure on the Instruction androg flight and now with the Smitheonian in Weshington) was passing over Australia on the Gamori-D meson in Unit 1960. Ho was intruding up in the open hastsh teleng star photographs when he spotted a UPD.

"The sum is just beginning to come up." Colims necessito the ground. "Also, to the cost we see an earliernaity bright object. I believe if is no bright to be a planet. The north of Deno mobuliance registrid organism. In a the Genster-d Appres land the J

But Collina was wrong, as ho later cantably connected. Thinks I was tooled by the plant twent - Bar of each can thread the post on of Versus right where Colline had seen his "estremely bright object bootinght to be a planet." One of his beat had need by observers in the world (or out of black been todard by Wman.

The extransity was not the trut pick to marke to have be a newly wart. Throumarke in Wind Wart II picks synta and market by man, date negative barry packed by a bright glowing object. On occurson, younnets operated his, barry have were being utilizable by societ. Are an weepons. But his water and undergen, just as the object was able from their past as the object was able from their the source twens.

...

Wenue, on the other hand, has also been the fail guy for some does in which deepends debunkes have sincured ficial safeth than here can use that an explanation. The most lammus such wants is probably the "Apriled Case" of 1948. when a price chased a UFCh right ride the day over Kenzukey from appearing backed out from tack of acygen and orashed.

What had he been chasing? The bright maps was also asen from an arbase control tower but all that invasigators cauld determine was, Venus had ganerally boar in the direction of the UFO and mght have been visible in displane. But with no other islans and a dead gald to explain away, authorities released a caloponical identification of the killer UFD as Venus

Yess bits investigations came across declarative conclusion of a gama, sinatasphero say balloon launchied upwind dithe agriting area all fech house sarriar across Russion, the ball occe were part of a bos scote (Program that had not been nonblost scote (program that had not been nonmast have known that cont of their tasts had not to the next keet of cloghtam Marrial, kning tim Landen-law above has also above has

So Winus was off the hook, it had not led a man to his death. The beat is could do, years later, was to lead a man on a meny chase.

In the protesser house of April 17, 1966. One sails froger Dark Byser cheest a UH Gro ai ange 1 Gol Micheel a cross UH Gro ai ange 1 Gol Micheel a cross house correspondent and house correspondent and house correspondent and house correspondent UH Carl and had magned by meriginant pained area But in obspendent LHC in weakgapase barrespondent LHC in weakgapase house correspondent LHC was and had mgered by merigina to the databot's unternative construction of the UH Carl at the house correspondent LHC in weakgapase house to stress weak and house to

According to Spears, he chased the obpot at speeds of 100 k p.h. (150 m p.h.), but is sineyed loarly shared Brangety when the tooper was forced to alow down to traffic, the UFO obligingly down to traffic, the UFO obligingly down in the wind wated for him

In a study to be published shortly UFO rivestigator Robert Sheefter has shown



Undershied craft spectred by a geologist in Utah approximities zon and steppe of Adamski schthra. Adamski bra a makera a complace

this the country roads followed by Spaul, logether with reports of changing postions of the UFO, bankwately point to within a few degrees of the known position of Venus.

"Spaur says the possed dicears of cars and trucks," Sheatfer adds - and it's astricus that new of these other drivers reported anything unusual during the times Spaur damed the UPO was right in frant of this hood. One policeman alwined by ratio, do'the policeman alwined by ratio, do'the chain of the howe seen another abyed—but its reported postion was nowhere near Spaur's UPO.

Left propie suspect für procernen existmente für De magnetizatione in 1975 hult al scene polise care form Washingohn C.C. and Maryland gathered all a strekt informaction bildrer dawn to watch a strekt information bildrer dawn to watch a strekt information and and and and der tup about all for an and and and an and an and and and der tup about all for an and and an and an and an and der tup and and an and der tup and and der tup and and and der tup and and and der tup and der tup

An even more futurnating Verus cases took place on Mikedgavilla, deving in in October 1967. Posice of Loren separated prodeving paratest of in Bag red toobladishaped sight in this seatem why. The othsens fail sight of the object allow 13 also manow (age) while but upon heading backwhyt lown were allowed to low sen the object othering Verus and sharestating the make of them cases are

The UFO recurred subsequeré mominga, chisarg obrer trectosts. An arcroxitook off to chase this UFO but where the prior could see only a rosoding light ground observers oberned he had flown deteroly under the obsol

The mash-melligned University of Glob (add) UFO study wire in programs at that tame and seet, live scientified is to access the second sector in the second sector of UFO as defined and the second sector in the second live three is the second sector in the second partners are not into a function of the second persistance with expland (Neuro entropy of persistance with partner (Neuro entropy of persistance in the planner) (Neuro entro

The most unusual UEO saptong with a possible Virnai connection has to be the timous. Fracher Gall loss, which accurred near a remote mission station at the captorin and at New Guinea in June 1959.

Skeptise demas the case as a gross measemfloation of a haze-deterned Verus-Eurit seems a bit more complex instantial Skeptise label at a close encounter of the third kind, in which alons achaidy wave do a group of started continue-control the started starting and the started start can be contrained and the started be contrained and the started be control the the started start can be contrained and the started be contrained and the started started models for the started started and the contrained started started and the contrained started star

Fasher Gillreported a large clask-

stopped object innetting rays, surrounded by smaller objects, with humanitike tig ures wellong around on top. When the missionary and some netwee waved the fource severed back.

The peoblem is the In the direction GBI says he saw the UFO, Venues was shrining neer as brightasi. When Venues set, GBI re containt that hes UFO drappeared. That some unusual optical inflated was present in the solute over New Giunea is supported by opewheres accounts from other measurements down the coald.

Factors Gill Jaco admitted that his simili UPCe server probabily kinkings stars bain inserted his claik wat not Gill also darmed to have seen Yerve sepanakiy from the UPC but curles analyst Allan teachy panelad out that the meny seen planet Mexicus was biophyth whining in the sky where Yerus would be expected, and dir invest house would be inspected, and

But Bits a disk UPD connot be as easily primed down all toole of this hold before resis onsares. He mastered the object was any dark as all both of them to here any dark as all both of them to here any dark was both of them to here marked the moon is apparent dawnedar. He asked should above this howard. He asked should above this howard. He asked should be the asked should be the

Even comparing Dalls tostimory to some of the wider map exceptions of ... Verus, the leng to a clasm of Tablakhor. The Center for UFC Blankes sums up the case the way. We lead ochidant that the cynting was generated effect by an extraorbany UFC as described or by Whus deproted is sore and alloged by amazing atmospheric concilions and memory spanning eighteen years by Father-Gal Curriching else. So was t a spaceship, or was it Venus?

That is still quite a gap. It is not likely even to be bridged in the Gall case.

George Advanues first mit the people from Versa in 1952, according to his published accounts. In August 1954 he was tween on beakt a Versisian accusing with an all-gri crew for a short journ. Accente awa lakes, more, and prospercus one-which were going by the time

He also discoursed at length with interplanetary store who revealed to terr the philosophical secrets of the universe.

The Advances myog lack of processthe advances myog lack of processbelline way publication But descence the fare advances lack of early mission and and advances lack of the physics and more and advances advances and the second second second second second and advances advances and advances and advances advances and advances advances advances advances the second second second advances that the second second advance that the second second advances that the second second readwards the second second advances that the second second readwards readwards

Totay the Adamski stones have never holess expenses of something of a Hewar as universal Adamski Jopanis Item the 1950s are reinforced by UFO theo mate of the 1970s. The line of breaght russ that Adamski's expenses were



During a spece work in 1966, General automat Mike Colleg applied a biolism UFO too bright to be a closed. But College, We millions of styreit/Mite field been fooled by the plenal Versa.

provide built has had been delaberateyiegtoo yied to by the alers of a come obsource suppose affilin departs UFO consistence such as Adamsis, who were departed by the more and-bath: UFO baths in the 1880s (pace) who believed that UFOs were alies space/pips, but that the pipter had to mark-terme to talk to create post liab adamsis). had become respectable inthe 1870s.

If in not inconceivable, some UPO buffs suggest, that Venus actually is inhibited by allers who have invalid such scionasts through counterfeit radio signals. All human Yorus probles may have been query destroyed and altern radio franmises substituted

If's a fearry worthy of George Adamski at his beal-or word, depending on your point of view

....

On the other hand, the secret inhibitants of Venus may be heartfie. At least, there is while Kail Mohie chambed. He convinced thousands of people, and wound up in person for it.

In 1983 Walks boars boars a publicity campaing antroxypering an eminance invasion from Versa. Operating from tis heedquarter in Statutogo. Chils her between the quarter district entried almissifiation on super-table. Malide could sell here "table visal passes" and many paster. In his board bases approaches to observe of the bases approaches to observe of the Versalan decoration for the Versalan decoration for the Versalan decoration for the

Over the next sex years. Minis (morrow) to Rome to would this attentions of Orbitem subtomes) accumulated a fortune of more than \$200,000 and an artify of beleavers who wind thim all their money and than work out to beg, bortow, or steal rough

But passing through Austria on vecation in 1959: Mekis was arrested, kied convicted, and sentenced to several years in prison on traud charges ("UFO Burko").

Lees than a year later, carth s first interplanetary probes reached Venue. It must have scared them of Lance the invition never neme

As the Toels of many more American and Hausan reason across many and Venanic Dependent of the many and many paper to classly cutation of oncrears unrounding that classific classific the primet Venus has need been coasting its ease on a contrar prime of correspondences, the primet Venus has need been coasting its bo create mystery and confusion have on outh

Varus has been missken millions of times for an anglane, a subellite, a space ship, a weather balloon, and a cluzen thferent configurations of living secons

Willers of UFO sightings triggered by the veried planet are a fribute to the grip Verus has on human imaginetian and perception. The goddess would have been pleased. DO



Enthused by the toptage. I returned to

done a kim from a noval befare 1 had to

sim casting English actors to play' the

What I came away from that meeting with

the story play on screen? Will we remem--James Delson

GAMES

ANSWERS TO GAMES (page 144)

No Specified Mode of Behavior

2. The take's diameter is 1000 meters. The fish makes a right-angle turn on the



3. Pour the contents of glass No. 2 into

"I will be shat with parson arrows " 6. Place the comin bothing water and statt both timars. When the local menuter four mercen) When the screen minute server moutes) The four-menute glass will well run out one minute later cetagroot

to each other, along the cake a chamaters EVEND & HTD four equal precess. Then ranks one honzonial out themaste the new-



9 Plots a fruit from the "Applea & On two boxes. Which bea? Not the one from and its label moved to the only box now

11 Afred while Louise had had had

13 Number the bags from one to ten all on Wards them all trendbar The result





1 Two crockers one on each rade

5 102 (50) % = 100 100 4 3 ~ 101

7. Top: The third error is that there are

8 Two hours (unless he had a digital alorn clock that can be set for a telor

DEATHS

receitly and a lawyer could delay that for two years. You're gaify as hell and so if you cooperate they won't do wrything to you. They'll ust deport you.

What a pell, Jerry said, With you on my adde. I haven t a worry in the world

"Exactly right, " said Charke "And don't you forget it The countmant was clawded with cam-

The operations was streaded with calmcase. Jeany lead intered that in the old days of theredam of the prose commens had often been barred here countereases. But Ben in those days the definitiant dath trausafy teetify and in those days the lawyers dath t bodh work from the same subg Sall. There was the prosp looking for all the world as if they thought they wells (hot.).

Jarry had nothing to do tot nearly half en loar. The automate (An ahly path? Javry woodword in Amarcia they must be) field in and the show begins in isolating impresawe in this riskes and the wood with observant and strong. We is fulfilled to the devision renordinary priminibializes con Everyone who apple faced the carriers with the not best on their and all work way in the not

He did not waver in his determination to try to turn this trial to his own advartage but he sensurity wondariod what good in waitit de, And was it to his river advansign? They would estainly purish herr more working (battain) they would be all more working (battain) they would be all more speach as if it were an impessional dimatch scene in a play (Drive Aalanst be Commonse or participal Calory (Cano A and he the hero who would willing) applies lay fee the charas turnoff all the tot of paratism (a lists bit of intelligence who parts and motor permannel in the basits and motor permannel in the basits and motor of Ameriaan who would be weldning

"Gorald Nathan Crows: you have heard the charges against you. Please step forward and state your pleas

deny stood up and walked with he hoped dignify to the taped X on the floar where the groupection had investigating that the stand light on the stand into it mently lanred light on the stand into it mently lanously, andwordered it where all investigating be belies just to say note contandim of own guilty and here the same time of it.

"Mr Crove, intonicid the judge, Arterical re-watching How do you plend?"

America was watching indeed. And Jarry opened his mouth and said not the Latin but the English he had rehained so often in his mind.

There is a time for ocurage and a time to covaride a time when is man can give in a those who tiler han is manny and a time when he must instead reset item for the sate of a higher goal America was once a time relian BLA at long as they pay they pay.



our salaries, we seem content to be slaves! I plead not guilty because any act that somes to weakan Hossian domination of any nation in the world is a blow for all the things that make the worth living and against those to whom power is the only only and worknessing.

² Ar Theorems Bit In the reflectant to exhibit the term has been determined by the term has been and the term has been at the term has been

They were lying of ocurse And Jerry slopped his peaked hard jammed har han da into his pockets, only to discover that he aut they had provided for hem had no pockets (bave moment by invocking radies sentials, and the slopen), and his hands ald usebased down in his.

The prosecutor looked up in surprise when the subpe cleaned his Broat "Oh, I begives parden," he said. "The speedhas usually go on much longer I borghalizate way, Mr. Crow, an your bendy".

Jerry nodded in mock acknowledgment, but he felt no receivery.

"We slways have a dry run" and the prosecutor "just to cetch you leaf-

"Domyones know that?"

"Well, everyone but you of course, Mr. Crovo All right, everybody, you can go force row."

The audionoe arose and querty shafted

The prosecutor and Charlie gol up and walked to the bench. The subjection rotsing his often on the heards, looking not all all taberly now, suit a Mite borred. "How much do was want?" the subject asked

International solid the Econocuration

"a he saally theil infportent?" Jamy maght as well have not been those "After all, twy reducing the actual bombers in Bradil "Mr. Crowp ist an American, said the

"Mr. Grove is an American, sald the prosecutor "who chose to let a Russian ambassador be assassmeted "

All rights all right, said the judge and Jerry manyelid that the man hadn't the slightest trace of a Russian accent

Genetid Nethan Crow, the court finds you cutly of mundler and investorin against two United States of America and its ofly the Union of Bower's Occurrence and its ofly you have enrything to reay before sentence is precoursed?

"I just wondered," said Jerry, "why you at speak English."

"Because," said the prosecutor idly.

Why do you even bother with trials?"

To stop other imbedies from inving what

you did He just wants to argue. Your Honer "

The sudge stammed down his gase! The cost seriences Gerald Nathan Draw to be set to dearb by every weitbole method until such size as he convicingly policipuis from his action to the American people Court stands adjourned Lord in heaven, de Three e headache "

They wasted the time. At two of dock in termoral multi-provided based based on the advectory Pertopa they incretered the because free shock sectors the meal foor where Jerry was fying. Two guarde—this time for Reasons—come in and stopped him and then dragopation him to the execution chambe aven though, had they to him. In world have welled

The prosecutor was waiting. 'I have been assigned your case,' he smid, 'because you promise to be a challenge. Your psychological profile is manesting. Me Drawn You loop to be a hero.'

" joil to entry: frazes I"

"You displayed if In the countroom, Me Crowe You are no doubt aware—your middle rama inclusion if—of the last writes of the American Renoutconary War explomage signed names Nathan Take. In sign that I have but one We big write my ouring in researt (but shall discover that he was missionen. His should be very glad he had but one sho

Tence you were arrested several weeks ago in the dis Janese, we have been growing a similar of clana site you. Development is gave accelerated, but they have been lapt in anno-arrested in they have been lapt in anno-arrested in they have been lapt in anno-arrested are take.

"fou are surely aware of someol yos, Mr Crows?"

Jerry modeled This strands alleep only We dark meet a mite deal of ourses But the med stands adverge adverge we are on interneties. They's meet a calculated we observe a second spect Mr. Crows we shall when we second spect Mr. Crows we shall be communicative grant your balance and the communicative grant your during of who the head of the first other during of who will creatly be come you. How were, he will creatly be come you. How were, the will creatly the common of during who hat meet observe and were the able to mit network of the time of during the time in the second of the time of during the time in the common of the time of during the time in the common of the time of during the time in the common of the time of the time of during the time of the time

The weak and ensure to be a here on the cid days, Mr. Doven Than you never herew for sum while distrit was too it was compared to steep, to great emphasizing part, to garde depentive of the soul from the body. Name of thebits, of boarses, is constructed monocarities

Jamy was highlened. He had haad do multiple death balons of courte---t was nimored to exist because of its deterrent while "They negative does not kell you again and again," askit the home story and new he know that it was tous- Or they winted him to belave of yous that

What foghtened Jerry was the way they planned to left him. A roome hung from a hook in the caling, it cauld be raised and lowered, but there didn't seem to be the sighteet prevision for a guida sharp drop. to break his neck. Jerry had once almost choiced to death on a salmon bone. The sanisation of not being able to breathe terrified him.

"How can I get out of this?" Jony asked

The hist one indicate all " said the presecutor." Bo you might as well be brave and lose up your hardstim this inne around. Alterward we'll give you a scheen test and see how conversing your reportance is. We re fair, you know Win by to avoid putting anyrest through this unnecessarily. Ploade still.

Jany sat A rean in a lab coat put a metal heimet on his head. A few needlea prickad rito Jany a scalp.

"Anady," said the prosecure: your find clone is becoming aware. He disedy has all your manness He is right now hing through your parse—or shall we say your identifies at ocurage. Make sure you concentrate cases by on white is about to happoin to you. Jenny "You want to make sure you memorize wavy detail

Plence," Jerry and

"Buck up, my man," skal this prosecutor with a grin. "You were wanderful in the countroom Lucis have some of that noble resistance now."

Then the guards led him to the naces and put it around his neck being control not to cleaded the relativity putted it tight and then and his hands botand his block. The nope was rough on his neck high whiter, his neck highing, for the sensation of bang kitad in the air He fexed his nock, muscles frying to keep them rigid, though his knew the effort would be useless. His knews graw weak, weiting for them to raise the scee

This recent was plan. These was nothing to see, and the prosecular had lat the recent Thirle was, however, a manor on a well beads him the bould bandy see allo it which furning his active boay he was safe it was an observation window. They would watch of ocure

Jerry needed to go to the bathroom

Remember he told temsoit i want risally die 11 be awaka in the other room in just a moment.

But his body was not convinced it didn't materia bit that a new Jarry Crove would be ready to get up and was every when this was over This Jenny Crove would rise

What are you waising for?" his demanded, and as if that had been their cus the guards pulled the rope and shed hum into the air

Prior this beginning it was wone than he had hought. The robe had an executing gift gift on the next in executing gift gift on the next in the sufficient was notifying, at it all Like being under when hading your bears that the rope first was partial, and his next hard, and he wanted to any out with the parts but nothing based except hat thruit.

Not of first

There was some fumbling with the roce.



NEXT OMU





WORLDS BEYOND -- In the January OMN waterway Bucksharadar Fullar Galica

and it sumped up and down as the guarda

By the time the rope held still however was pounding stande Jamy's head His hed to breathe His body demanded a

His body was not under control intellec-His leas kicked and struggled to reach the eves builds more with the pressure of the

These was no help for him, but now ha tried to acream for help. The sound now span on the rope, he caught a girrose of

How long will it be? Surely not much lorght

If he had been underwater holding his bestih, he would now have given up and

If he had a gun and a tree hand, he would kall hereald now to end the apony and the see everything in shades of red, and finally he new noting at all

Saw notions, except what was points make some attangement that would elitte had fallers in when he was a child, and couldn't and he couldn't and he pouldn't calch it and then sudderly it was around his neck and chapping him under

Spots of black stabbed at his even. His body feit bloetest and then it enubled his

ment Jerry full tempell maching the weicome state of unconsciousness. Then suddently he descovered that death is not

These is no such thing as alloping of readly in your sloop. No such thing as being "killed immediately" or taking clearth

Don't we've ten from his unconscious

before his eves. The lack of life instead

and seeing nothing. Then a light stabbed at he ever and soft foart peeled away from watching as he gasped and retched and now sich with rebail and say. "I've been death. But the stranging was nothing. The

mat still on the head. The tongue protrud-

"Qual is clown " the prosecutor seed and

With death still heavy in his mind Jerry reasons and kinged at the prosecutor But is guard paught his hand in an impsisticle grip and the other guard held a peskol pointerol at Jerry's hered

period and took the love and mached up to stench was incredible. And the fact of legs. The lace locked at Jerry eve-to-even

"Bu see the camera?"

Jerry redded agen, and the proseculor raid. 'Bol e.

sony I made a terrible mistake. I was give me. The government has been kinder craven that he was guilty that he was

And when he was fhrough the prosecu-

ment ought to be deposed. And so we have

Let me try to confess again.

"A screen test is a screen test. Mr Crove have any involvement with life.

basi it will. They hard him by the amplity over a long overder filled with boling of when the oil was up to his chest-by then

They made him come in and when the of

time, but the test audience was completely and. The dopart's below a word of what

We have a problem? said the prosecufor "You seem so willing to cooperate alter

prosecutor When the guards had pulled

On the contrary said the protecutor you'll completely change your mend "You can't change the truth!"

We've changed it for everyone else whos gone through this And you are far longet about being a hero

They skinned him also, anno and lens and ripped the skin off his belly and chest wheper a scream that rang in his ears

They slowly crushed him to death and what he awake but the authence only

"Dianetics gave me



I doing. I had an honors accupation has shar and rey-life second to set fulfilling.

because a grap a gap who shows exponent around a proper sec. I moved as stop production work and

** X people really need and understand (Agencies strately, and this could really be a becarded work by

an understanding of my own mind Buy it. Read it. Use it Construction Construction (COLING) Carry de ... ere ers erens has tables als genereten erste erste erste andere erste erste outs in front of him. They infected him with satures and let his doubh larger for two weeks They cruched him and at exposure and thins kil him They dropped him a building unfil he ded

Net the audience knew that Jerry Crows

can keep dong this?" asked the prosecuthought he looked almost desperate

"Getting a little tough on you?" Jerry asked, grateful for the conversation because it meant there would be a few min-

What kind of men do you think I am? Well being him back to life in a minuto anyway I toll mygelf but I didn't get into the

You don't like it? And yet you have such a

The prosecutor looked sharply at Crove "row? Now you can plot? Doesn't death mean anything to you?

Jarry did not answer, only fined to blink back the tears that these days came unbidden every few merches

cheep? We ve spent learning billions of rution on you And own with mistion that is a

"In a classifeas society there's no need for

"What is this, clother Now you're getting settellinus? Now you is trying to be a hero?

No wonder we've had to kill you eight smeal You keep thinking up clover and

"I'm sorry Heaven knows I'm sorry"

'I ve asked to be released from this as storment. I obviously can't crack you

Clack mail As if I dids't long to be cracked.

You're postag too much. There is a defirule benefit in having criminals convinctop expensive. The cost-benefit ratio is

Titune a way for you to save money

"Next ame you kill me, clonit put a helmot

The prosecutor looked absolutely shocked 'That would be final That would be capital puter/treat. We're a humang

They shall him in the out and let him bleed to clearfs They threw him from a cett into the see They lot a shark est him slive. They

But through all this, Jerry had become more mared to the pain. His mind had to naity learned that none of these deaths was

permanent alter all. And now when the moment of cleath came. though it was still less He approached death with graster caim He even hastened the process, deiberately inhaling great draughts of water. deliberately wrigging to attract the shark. death he knot wiles. "Hander." until he coulds t yell anymore

And finally when they set up a sorem Bassian government was the most tarritying empire the world had ever known, being their power, because this time thata was no outside for barbarians to come from. speech was from the heart -- he loathed the measure of sustice in America.

And the prosecutor came into the room

6 The soldiers were young, but unStavic Stavish, but detroitely American Slaves to Slave. Put that in a protest poem sometime. he decided if only there were someone who wanted

to read a protest poem.

"Nu hestent" he see

Oh. You mean the audience was the

"& hundred loval category And you corrupped all but three of them."

noutor sat down and buried his head in his

"Going to loss your job?" Jerry asked

"I'm sorry You're good at 6."

The prosecutor looked at him with loothing "No one over tailed at this before. And I had never held to take amone beyond a Crove, and you've got used to it

Tokin I mean to

What kind of animal are you, Crows? Can't you make up a lie and balleve it?"

Grove chuckled (in the old days at this upmariously But reured to death or not he loudly again) "It was my business. As a playerant. The willing suspension of dis-

looking man in a military uniform obvered with module came in. followed by four Busaran addeers. The prosecutor sighed and

"Good-fries," Jerry asia

You re a very strong man

"So," said Jerry, 'are you. ' And the pros-

The sold ers took Jerry out of the prison to a different place entirely A large complex of buildings in Fiorida, Cape Caney

who was preparing tem for the flight.

"Who knows?" the technician assaid "No one's ever come back. Hell, no one's ever

When I steep on somec, will I have any Inouble waking up?

"In the labs, here on earth inc. Out them,

"But you think wo'll live?"

"We send you to players that look like they might be hobicable if they aren't so can happen is you die "

"Now to down and let me table your brain

Jerry lay down and the helmet, once tole of pourse when you are conscious that your thoughts are being taped Jerry realized it is impossible not to try to think something important. As if you were potforming. Only the suchance would consist

But he thought this. That this starship sent out to colonize in prison workle want not maily what the Russians thought they ships would be away from earth for centuries before they landed, and many of

periord up his brain patient and transferred

own berbanans. I will be Attile the Hun. My chid will be Mohammed. My grandchild

One of us some feer will stack Rome

sweet through him taking consciousness with 6, and Jerry realized with a shock of weicome death and he didn't mind Because the time when he woke up he would

remember how to hum, and then free put his body with hundreds of others on a star ship and pushed them all out into space, where they fell upward enclessly into the stars. Gong home DO

FLIGHT

CONTINUED PRICE PAGE ST

worked out to over SH6 Dobilant Neverthale when Macrobany assocred an inferative for thing amount tem Prince Charles (at a Luodon reception hosted by the Nevry Kenner looked on without the Nevry Kenner looked on without to pay up. He had feature with his might the pay up. He had feature his har might never see his deamineratived in his hetme. He was an inperial, in fact hat he offseet is nere non-2010 2000bat he offseet is nere non-2010 2000bat he offseet is nere non-2010 2000bat heat never heat the aroused his Freeken Charmel

Even da la incluega la crude avela historia deno co bar ja co historia appeara tabili o tito losso ot the proteinere. The appeara tability of the losso ot the proteinere. The app. More than the proteinere and the appearation of the losso proteiner and the proteinere applies from which to contain the containers applies from which to contain the containers applies from which to contain the containers applies from which to proteiners and the containers and the containers proteiners and the containers and a control metagency througs and which applies from productions and a containers and a control metagency througs and which applies the proteiners and the containers and the container and the containers and the second the containers and the containers and th

Then there is the problem of the nonzone wateries conditions in the Christel 34 Mismission (2) Thinked seconds in the nonzone second second second second second second wateries and second second second second memory and second second second memory and second second second memory and second second second form where second second second memory and second second second form second second second second memory and second second second form second second second form second second second for the Advances and second for the Advances and second for the Advances and the Advances and the Advances and the Advances and for the

Case address to the week was a lessertranslearned with the Gospitere Control. It leave any address when the week weik weiks bod argerous to fly in Conce during a helic high the Gospitere Control the with the wetter, of initial-amining and latt by a coopdebt case and the high leave of them the debt case of an initial weiks the second of the debt case of an initial weiks the second base used is fragie wing snapped like a tochtock.

Hossi all, Allon says, Ti di ko table officiali inte all allo - Toyoth Could probably on mit a sweet of up to eight Monetars (Normal man) - emerging allo attributed and poly up and the board based of the state of the Core the glanes in the ark and allow attributed with Could be board autor to the core and wave to the state of the state of the could be board to the state of the state and wave to the state of the state state of the state state of the state of the state of the state of the state state of the state of th

paring timeat for a workout of three hours or more, should be have to buck a head wind. Once the plane is in the air flying it is easy it's like isding a bito.

Dipport Anice 20, with tweet to circuit not at appreciate theretopoles or collinationary for in address count memory or basil Benergh and address count memory or basil address of the basil—aritik and the second second and basil—aritik and the second second and basil—aritik and basil address of the basil—aritik Matchenda and Northell tea and removies analyzed and the second second second and the second second second second and basil—aritik Matchenda and Northele tea and the second second second second second basiliant of the doctament of doctam

What Good, Allon theirk about as the Training for the high PT hand, the charge including Table with follow a factors in the charge including Table with the the training of the the training that Charlins requirem MacCharlar, membranes labout the aphaeming totals that are including the the aphaeming totals that are including that the aphaeming total that are including that the aphaeming total that are including that the aphaeming total that are included that the aphaeming total that are included to the aphaeming that are included to the aphaeming that the appart are in the aphaeming to a dong the world requires the aphaeming that dongs appropriately light and unincumbering personale and this stage hor possibility search and this stage hor possibility search and the stage hor possibility opposites and the water MacClearly opposites—weaving his way through the data stage is his hough through the parts an expedition reast starty if anoth would—of this online phane pollanghet in the copyon glassy waters or through both theory of the water water pollanghet in the

Altern is scalar is to more think a seriest memory activity of the seriest of the seriest intermed Assistant is and the seriest of the former of a form uncontrol out, memory with the propertiest of the seriest of the seriest is propertiest the seriest of the seriest of the term and the seriest of the seriest of the seriest term and the seriest of the seriest of the propertiest of the seriest of the seriest of the propertiest of the seriest of the contraints end of the seriest of th

The Operative Abstroad her like a determ And the summer a where her to be that one of marked to detect dreams. This satisfacts of which was interesting point providing the Wing/Indetect in otherwenter. To years ago the dream of skip lights like to back under only is own down?





PHENOMEN/A

"From the ground, the Gennd Prismetic Just tooks too a big dreaming lake," es-ditions photographs Michael Prevention and the neither stream and the second and the neither stream. The legal and priority the legal and pring in Vikkawakane Ne-douder writ in the certific error the allowed the confluence of gentlemene activity and a multicit generation. The second secon

Be playful, mocking, tactical, or even shady



prestry Swincon 1 setting encoded in to device on emisientier, PLAV (such as detained neuropy at their games) 2 of the distance of mocking (140, SPCRT 3 a procedure or statilized) for gamma (set for VACID 4 antifegal or sin Ady samano or tenesteen, NACKET 5 a speord VACID 4 antifegal or sin Ady for Advance device (setting at (such as he don'to gamma the game of poincing) or the fields of wild samals protects).

¹⁰ There is an adverse or definit among those were an extense conflict. In more those were applied and adverse to the extense of a particular, A syntax data is the extense of the syntax data and adverse to the adverse of the syntax data and the adverse of the syntax data and extense of the second that the adverse extense of the second that adverse extense of the second adverse adverse extense of the second adverse adverse extense of the common adverse of the second adverse of the extense of the second adverse of the second adverse of the extense of the second adverse of the second adverse of the extense of the second adverse of the second adverse of the extense of the second adverse of the second adverse of the extense of the second adverse of the second adverse of the extense of the second adverse of the second adverse of the second adverse of the extense of the second adverse of the second adver

There may also be rathing for hose who vave parties as a "speched mode of behavior" (delinition 6). The following suzzles are armed more at peope who see genes as play fain, factors or even along schemes or manavions. Straightforward, orderly behavior will get you nowhere the scale.

Okayi so be playful moderna sactional or even shady We cell this group of names

NO SPECIFIED MODE OF BEHAVIOR 1. Figuring the angles. Can you valuate the angle made by the task dated ines on the faces of this cubie? (Clue, the essent way or Guine the cubie? (Clue, the essent way or Guine the cubie to take the long way arcanto be don to be chastle.) 2. All the but severe Cytender Lakela thorake is a cortex. A present hauns of 81 a point on the shore and owners due notify for 500 maters before hitting the opposite shore. Hellinen severe due cool and fets the shore-lagkin abor 800 meters. What is the due of the due to the line.

3 Moving glusses. Bo plasses are placed in a row. The first three are Weld with anow. The last three are emply.



By moving one glass only, delived Mrange them so that hull glasses alternate with emoty ones?

4. The estimotery's choice. A missionery is captured by surviges whole this, "No may make one alistement." If what you say instruct, you will be deep lineder loader body on the span. you will be show the place of the span. You will be show the place of the span. You will be show the place of the span. You will be show the place of the span. You will be show the place of the span. You will be show the place of the span. You will be show the place of the span. You will be show the span. You will be show the span.

 Hourgiass Agunes. You wint to box cam-can the root for exactly rung minutes. How can you do if using two send travers—one mosauring losir minutes the what caven minutes? 6 Custate calls With only fines cuts, silica the brithday cake into eight equal pieces.



7 Hold on, LH both Lady Gamerers is trapped in a calable on a square is that averagencies by elevenage most an Lanceiot central prop the most on his likewy amor the tags have plantes acch more and one had motion long, but no way of hastering hem spatters i low can bit Lanceter reach the cristle writical getting her sub war?



8 Loss and deer Ony Zoo keeps its role loss frees pictured as rectanglea) all to genere in a large square cape Oddy anough at the toris have artistics and remening the postors shown before at oil times. Can you give each toris now picture vate cape by bailing just twomere ensure enclosure?

The tracelary has ten arthrap clear fold





cles), which are constantly positioned as shown ballow in a circular pan. Give each deer its own private compartment by doawno only three trees.



To developinged a nearward substate upon being served a burned social obstand out of the establishment without earing—or paying. The manager trucked him down, however, and sent him a bill to the meal. The man wisple the following message on the check and mailed it back.

102004880

This cryptic note, interpreted correctly, can be need as a proper English san tence. What did the outraged direr tell the rectaurant manager?

13. The weigh-off Here are ten moneyough, epohlised with a large mumber of cores. All the cores loop alks, but hope in one bogue counterfest Each of the outersheld cores weight unit gram leas that a read core. The have a gram scale but are permitted only one weighter, thou do you find out which bigs contains the lotter cores? raction will the smoke from the engine

3 You have two carrs in your pocket, to taking 35 cents. One of them is not a quarter. What are the carrs?

4 What is the product of the following seore?

(x-a) (x-b) (x-c) [x-2]

5 Divide 50 by 12 and add 3 What is the result?

6 Strissso Newton bought seven applies and site at but three. How many wore left? 7 True or failso. 'There is three errors in this sentence.'

8 A tread tetranomic work to bod at ton o clock one-night after setting he alarm clock for noon-the following day. When the alarm woke hits, how many hours had he nigpt?

9. A Latin scholar said that the object protured below had been found by archivectograts reconvering an ancient Roman city what do you think the antisct's purpose had been?

9. Apples and manages. Three boxes are labeled "Apples." Orimogas." and "Apples & Changes." Each label is in connect. You may atox your hand into one (and only one) box and pull out one (and only one) box of huil. No feeling around or peeting permitted. How can you label each box connectiv?



10 Spoling fest. What is the next letter in the following sector.

OTTEESS

11 Punctuate the following sort thekes access



TEN TRICKY TEASERS

Here are some classic mind puzzles. This took is hot so much in the solving, but in reading the problems carefully 1. How many grooves does the average 12-inch. 33 is pin long-playing phonotrach area have?

2 An electric train hoads north at 80 miles per hour. The wind is blowing from the wind is blowing from the wind is 20 miles may hour it what is for the second statement of 20 miles are blowing.



10 How much will one cost?" asked the customer in a hardware store

Twenty cents," replied the client And how much will twelve cost?

"Forty cents" "Oksy Till sake nime hundred and

ADIAD

"Fine. That will be study cents."

Question What was the oustomer buynn?

Areswer: page 135 DO

MAN WILL NEVER FLY

LAST WORD

By Lawrence Maddry

et us pul aside for the moment the argument that if God had intended for man to fly He would have adoined Adam with feathers-

The question confronting Oriel readers an eletier a froude ostaconicitares—the belief that two trothean named Danle and Witter flaw a plann at Kitzy Hawk on December 17, 1960—the sonthat dawn the romwy of guilteling fuelad by blave proces agenry, and cash-inded in other wigh netable purifies and encyclopedias of necord as a demonstration fact.

I statid before you as a nerginearilistive of The Main Will Nover Pty (MWNP) Society, International Cur, society is dedicated to the proposition that the brothers were a datase example of two Winghts making a words

The accession readous "Briefs Fig. Non Draw." We do not believe that the Winghts Rew Ce, indeed, that man has flown. The socially also adopts the conducty new that man will never fig. or if he does, will never _grven a chalow_fig.adour

If man does not fly it may well be saked, what wen the Wrights accomplating at Kity Hawk? Virtually nothing, it appears

MMNE Bocally member Dick West probably came closest to the fruth when he suggested that the contragition the Wrights constructed on the duries at Kifly Hawk wes a "hat cheare"

We know that matter is here deal trayed it is merely instantiation, another form it is the same with fac. Dates are often have to be here used to be the pound of Where do the pounds go? Into the air of course, clogging theration that are to be an of course dates that we will be at a so so sogned with tall partoles as ever. And, as why of anyone

Nevertheless the monstreas hoax con-Imass. This year, the credulous public celebrates the 75th anti-stream of fault.

And on the eve of that anniversary—as is our outside—the Man Will Never Ply Socrety will gather to relute the proposition of powered light with every bottle flask and oostskin at our disposal This writer was present at last your a meeting, taking notes. My report follows:

Members are pathered in a large coning hall in the Carolinian Hotel, not lar front Kity Haak. The score is assessment with meniand women in varying states of intoxication. Many members are supine bonesth shires increased with white instru-

A paina plinka. Hundreds of society members many making it to their feet rise to yodel the official song. The lyncs rise to the tune of "The Darrig Young Man on the Flying Trapeza." The chorus goes

"On. M up your glasses and let's have a round

For Wilbur and Orville, those men of renown

Who saught us to fly without leaving the ground.

And that's what we're doing tonight "

As the song concludes, cofounder Dr Ed North, the sociative Trest Transier 1 gsweis the meeting to order with a bent propisitier pounded on the lectern.

He announce that Provident Cartier wonthe society is covered Dwite Proxmee Award, presented annually to the person who has done the most to deter avalend during the preceding yest Carter is given an ovaportfor having absorped the B-1 bomber



The society's chief progressicator, equipped with a properlancepped bean e, products that avmail will soon be a possibility.

A chorus of "Noocos" buffels his prediction

The progreet cutr replans "Thessands of thy bots will some dry wing mail free coest to coast, each little ontwicarrying a senance, with the postmaster general wating on the opposite coast to plue the sentences together

A toest honoring the prognosticator is proposed.

Mis. Hope Mihalap of Norfolk Virgina, a bookeeper wearing a teather box, sintroduced as the country's leading expert on flight.

She procents an award to a lady in Vermore who offered the year's bot explaration for the Wepter's prevence at Kity Hawk. The winning suggestion is that the Wrights were working on an electric blenckin publicity.

"Cenanty if had working blades. If could have chopped tomatoes and mode excellent Blooty Marys But, Blas, the brothers lacked pluck and persistence They were appretes lot without perseverence, the without perseverence, the without per-

Thereiser Number Rev. a newspaper coumerical, proposes the exhaustance of eninvestate muscle and the CPC A druck, name the hand. The druck is ecooptuald (Thereiser Number Three as clutions out) The device muscle that the investible pares factual players are prosumed to cross when traversing the goal the situation and is housed in the muscum.

Heated discussion follows. Pro and con investible plane factors: ergula spinkedly. First Thinker North suggests members have a clink and think I ower.

The museum argument continues. Bee lady rises to read a poem. She is interrupted by a man wearing a lempshade on his head.

"It the Whights were the lisitners of avation ----who were the mudders?" he shours--

Classifies time and fail until down All soci aty members higher than the Weights ever got DO