

ANNIVERSARY OF



SPACEFLIGHT





MAY 1986

VOL 8 NO.8

CONTENTS

EDITOR IN CHIEF & DESIGN DIRECTOR: BOB GUCCIONE

PRESIDENT KAPIT KLETON EDITOR UMPREVALIAME IN EXECUTIVE EDITOR WITHER ADORDET EDITOR AT LARGE DIGG TIRES GRAPHICE DEPETION FAMIK DEVINO MANAZENS ETXTOR INJ. HEITE ARE DIFFECTOR ANY SELECTION SELECTION OF THE PROPERTY OF TH

OMNIBUS	Contributors		10
COMMUNICATIONS	Consepondence		12
EARTH	Environment	Dwen Daves	16
LFC	Antivopology	Jim Naugtton	24
MINO	Debayor	Judith Hooper	26
BODY	Health	James Kitheld	26
MUSIC	The Arts	Mattery Field	50
CONTRIUM	Dois Bank		50
BRACEFLIGHT THE QUEST FIRST WORD	CONTINUES Opinion	Alan B Shepord &	6
FORUM	Dielogue		14
BMOE	Comment	Preemin Dyson	22
STARG	Astroomy	Flore Bohulitz	34
MISSIONATY POWER	Article	Richard Wokomir	46
GEDGTAR	Article	Garand K. O Nati	60
HERDES IN SPACE	Politer		69
MOONS OF URANUS	Pictorial	Flori Schultz	66
DANIEL J. BOORSTIN	Interview	Anthony Liversidge	902
ALIEN LANDING	Contest Results	Owen Device	114
THE BOOK OF INLOOD	Fiction	Clive Barker	54
AGAINST BABYLON	Fictor	Robert Silverberg	99
ANTIMATTO	LIFOx etc		109
EXPLOPATIONS	Commemoration	Jane Goodali	132
BAHAWA BANK	Phenomena		140
CAMER	Description	Good Morray	550



Our cover consumments NASA's 55 years of specifying Engine Camera photographer! Harrison Stock Schmidt January Stock Schmidt January Stock Schmidt Specifying Stock Specifying Stock Specifying Stock Accounts of NASAWances 4 College 55 years and 100 years 100 year Cartifolished in 17% contained contributing the land described in 15% of 15% of



FIRST

By Alan B. Shepard, Jr

The Chatlenger
accident has revived the
interest that the
space program has facked
for most than a
decade. Discuster won
the attantion.

by of the Mithousy Hight Freedom Z.

where the State Hight Freedom High Committee High Engine High Engine High High Engine High High Engine High Engin High

macrost cold. I had only a mine for gold.

only fill creds it stronger, when the some group fill creds it stronger, when the some group fill creds it stronger, and the some group fill creds it stronger, and the sound fill granted fill creds it stronger, and the sound fill granted fill creds it stronger, and the sound fill granted fill fill creds fi

Notice of his coded himse guyasped videral, a consent his cost he space of his he accused his cost he space of his he way a good before the space of his heavy and put his down in a down, so coupands recreated extending of space of province of his space of his

elemini. After asset Memory is floots, are noted from talled processes, for every serilection retrieved. Replay we signed, an insultance continues term for exempt yield to cut affects, and for the injury or insultance container feeting turn beautiful to the public and the processes of the public and potential potent for the public and the public language. The processes done in the insultance for elements of the public learnership for the processes done in the learnership for the processes done in the company of the public and or exempt the public public and the public and or exempt the public public public and the processes of the public and or exempt the public publ

support we helped
Corneal Raylored cethology of 150 mg,
your page with managery of incorry years
your page with managery of incorry years
you have been and incorr ower and out
with helped with incorr ower and out
with helped with incorrect incorrect
with helped with the incorrect in his daylor
happe or the manager press. When Challenge
happed to the hours (Raylor Challenge
happed to the manager
happed to the control of the
world
happed to the manager
happed
h

Assauda in genier. An signig as the modes beliefood we wire mis give went mis. Plausame, 14/54 Feerwind almost all the rocky? It released it Am some is we meather the moon the stock was delit. The public kind other interests, and Congress flux plant uses of guarantees that did is in fact, but progressing out that is in fact, but progressing. mous, a 1940 is a way into a survival adjusted only in the event coulded. In a survival could be survival or the survival of the survival of the survival or t

which introduced towards and the second of t

power support felicies work in reporting your first power for forgets and the activities would never felicies for the power felicies and a support felicies for felicies section power felicies for the section power felicies for section power felicies for more value of the Challenge accesses. However, the power felicies for more value of the Challenge accesses for more value of the Challenge accesses for more value of the Challenge accesses for the value of the Challenge accesses to the value of the Challenge accesses to power felicies for the value of the power felicies of the challenge of the ch

CONTRIBUTORS







and position when an of ordering the understand his man as the side of the common and bright of the common and the common and

beyed claimy.

Among fische first coloring will centarily be received in the many limited. But he received in the many limited. But he received in the many limited by the received in the rec

One of the space movement's most to OMM sistent supporters and a member of the Naponal Commission on Session is General Art O'Neah, problemed remains of physics at Princeton Literary in "Geoster" (page 50) he reports on detected plans for the utmate sately to communications individual.

O Neil applians how transported the responsers relation—will said and listance digital mossages. Hiere will be able to check in with Their offices private saints will be guisted to amorgancy familing Char of the Geotat Corporation, Office has reportly written the book 7an Northod on World Competition. Check the World Competition. Check the Check the service of the matching Check the service or with the Check the competition.

whom Chromotone.

Chief a selection on the or malared Chief and Ch

owner (Loronario Corregion and Index of Index of Corregion and Index of Index of

Distance would be the Hester's Stores DCI



COMMUNICATIONS

It seems that every living creature on this

magazal planet swings to its own rhythm. and as writer Jun Natimen showed when he February 19661, the American been pertainly has an ear for good music. I have animets in clanger of extinction Montana, along with the big ranchers, has

once again begun to sixuafter fire bason Park it's far game. This practice called premain to live out their lives safely and in Decres Miler

Cefular Visions

Dr. Jorga Yune has developed a wonderful consistent f The Cell Sees ! February 1996. can be used for such unothical practices. as child selection is a problem that manfests divisionment. It's the responsibility of each

Farfalul Zombies Wada Davis's story ["Inside Zornbio Megic," Debuggery 10681 was informative but in my opinion it failed to make a crucial point

link has been chown between the administration of zombie potion and the religion American thinks of voodoo Actualy, voodoo of strength that any tests brings, so well as

Vanous secret societies are responsible to purish someone, as was Impled in Daying article. The manufacture of the

> Charles N. Wystrom Chicago

Oi Trashers I have witnessed what I can only describe

Sorta Fe tresh dump in Mesco City Matecree Ot * Continuum: February the pargernush city dump is a block, highly correspiblic bey substance. The the durrer sessions the trash mongent of

Lerror de Chaputeper Mosco

Bossik Bemaribered

Please societ our appropriation for Circuit Publications contribution to the Judith A Regrix Merryral Fund Own Publications enterest in helping up remember this gytragograny woman is commenciable and homeom that we hope today's students will emulate Through the Judith A Restrict

perpetuse her tradition of perpetunon Correct C Ott

Akran Judith A. Rosnik Memonal Funci, 70 North

The photo caption for the October 1985

to the late Bela Lugosi's close association with this topic. Any other connotation was not entended DO

FORUM

within a decade based on a 15-mirute.

Many people concluded that everything

the cost of none in planet Man, for example World pregoe would be the ultimate.

reprofit from space exploration

testory and the lagacy of all who fly

'And the rocket's redigiare. Little dist France Scott Key realize that his words with us forever, began just a quarter of a

aspecially true in the specie program.

Marr is ureque in his ability to recognize unknown Machines can thon be used

The recent frage: loss of the Challenger As we investigate every supect of the

Challenger deseter so that it may never who if he tals at least fall while donor

Paul Soully Power

Editors note in October 1984 Paul Sculy ographer to Ny in space DO

KILLER LAKE

EARTH

By Owen Davies

included believes the Central and Central Regulation and the Bight of Berlin Centration at the Bight of Berlin Centration as a country personal and arminists with a power II according presents and arminists with a power II according presents and a country for when 37 people deed implementably a few worlds better, which a good better few of bound down in 1% widen American scaleration the country of hald processed one of the strangest - relaxation diseases of all the country of hald processed one of the strangest - relaxation diseases of all the country of collection of the strangest - relaxation diseases of all the country of the cou

succurribed as well By 9 90 Av Dr. Emmenuel M. Nock Bots had anved on the score. He existed until eter the log discipation drown this look A.w., and then made the well to the late. Southout prear the shore, he save a may do death. The plants, which had the chlorophyll bleached him the releves well discharged up to 20 less above the wildnifer suggest.

rig a told wine. And till more shooting all petrole he dead allon, the fathere. The first of the people ded it should half petrole he should half petrole he ded it should half petrole he ded it should half be dead it should half be dead and should half be dead it should have all he dead of Public Heelth and Topocal Methodism of the Televis or their petrole "These wive resident half he boddes three when much half and for all the boddes three when much half any storium resident and the shoot dead the seem much half any storium resident and the shoot dead th

spased skin and on all the bodies there es much faleny intuitis mixed with blood reard the mouth and note. What struck me most, he adds: "was ow quickly the bodies beginn to praimly he temporature that day had not speecked severify sevan degrees Falsen.

by three-thety in the attention.

"Many of my colleagues came to the area soon after that" Nock adds "but there were no autopses. They were all ahead is OWN.

These the matter stood to seaword mother No one quality die wednessed possion in this wisk but nother could they come greatly and the could be present to the discholar greatly and the could be presented to the Support soon sociated on the tome head of the opening of the seaword the printation closes is the size A scenar of the guidation through a the plantod account of the could be a present as the support of the seaword pattern size religions the straying in parties the support of the areas the support of the parties that the support of the areas the support of the parties that the support of the parties that the support of the parties that parties the parties of the parties that parties the parties of the parties of parties that parties the parties of parties partie

Fresh ym Camsoon goornerer went is Umeasiny of Brode Farnd veloratiogs Harakar Biguresson and some se received set the excelled Bigurdson and gode get Joseph Gever camson in Camsoon What they sever accessed in Camsoon was a culm, relia long last chaped lake a lose feel do fer was challed but in the lose said accessed on the desired vocance creat the charge of the charge vocance creat the charge vocance vocance creat the charge vocance vocanc

What multy happened at Lake Manauri

say. "These have been case in losted and Papus her flowed for reliable and the reliable and the reliable and the reliable her flowed for reliable and the relia

tomed lise want cold Schedupert characteristics and such set forward bett the gas was literated and supposed bett the gas was literated by the control of the first the properties of the control december produced by vectores lesses stage histopied off and better that control december produced by vectores lesses stage histopied off and better that the produced better that the control control produced by the control produced by t

Devine rows a provision of a tover threasing connection the law adjusted on a transport of the connection of the connection of a law before the connection of the connection of says. Find we dan! I show what I highered in Dourses recorded belong a skiple and the quality the day before but the cely colored graph in the ansi wat out of order on see could never confirmation that the country of country of the connection of the country of purchased by Duke University conducts.

Danied Livelgiston on experi on the ballies of Cameroon. The gases that right have Belled these people—carbon discolar mathans, of hydrogen salides—eauth of helps caused belleting? In easy. Yest nothing east found in the size exolat cause the ceston is no bad shale well and salidpress. A fire pactures of hose turns would armer a lot of qualitative and and the salid carbon salidpress.

subgrose. A few populars of those turn would answer all of of patients. "Unique events are hard to deal with Languise conduction." No one is garing at next or the labe until in happers again Unless if occurs somewhere else and we can get fince opcivity we may save know what the opening all Monous." On Input what the premise all Monous. "On Input what the premise all Monous." On Input what the premise all Monous. "On Input what the premise all Monous." On Input what the premise all Monous. "On Input what the premise all Monous." On Input what the premise all Monous. "On Input what the premise all Monous." On Input what the premise all the premise all the Input what the Input what the Input what what we want to Input what what when Input what what what what what what Input what what what what Input what what what Input what what Input what Input

ASTEROID CROPS

SPACE

By Freeman Dyson

spools will go out and settle on a spools of the spools. What of we do allow spools of the spools of

we draid from them the human returned to me ent countred in a designancy to the mean recording a designancy to compare the processor of an entered and the mean with the control of all who designant with the control of all who designant with the control of all who designant who was a designant of a list as deal. America as we have always a list as deal. America as we have always a list as deal. America as we have always a list as deal. America as we have always a list as deal. America as we have always a list as deal. America as we have a list as deal, and a li

In the packer of my own theretal. I have seen an example of advantagement that may these some light on the accommen problems of address detection. Two thereta's ayoung man and his vide existed behalf of the Problems. The problems of a commission of a seed of the North-Reacher They but a commission house and had no efficially in gowing serically had feet the state. The house of a deficial by lacked to describe the state of the house and other useful process.

in most respects their colonly was economically self-sufficient fluit them were in the essential come that they could not produce for harmeelves and readed to import. Desid final was the most essential they needed to said down to Varicouver. Carnada once or two a year with a large park and still or their entryines. The question their arose. What we are considered to the control of the contro the meat convenient cash crop that they could produce the export? They had to this something that could be seenly provinced in the sistent was easily transported in their boat and easily yeard on a high price in Vancouver Being like abording Colories. The Naccouver Being like abording Colories the Naccouver Being like abording Colories the Naccouver Being like abording the Naccouver Being like abording the Naccouver Being like the Part of Colories and Naccouver Being like the Part of Colories and Naccouver Being like the Section 1997.

Picific aland to export?
The artiset to this question was not a closured only attain a number of fatter stat did my literate lend the answer pedigment. Flooderskin-Redgelskick pubs. The dogs were easy to bened on the sland. They of not freed to be freched surse freen war no stanger of immodeptimation, or cross-bedding. They had mostly on influents to

hundred dollars each.
Prodessat Proglassak pups will not always be the answer but the economic problems of selected obtaines will be solved in a senial fashion by finding bash cape that companying will not companying the

Carrel prespor an exporterestral export?

asteroid colonies will often be products of specialized plant and animal breating. Every assard colony must begin with a unique part and animalized plant and animalized plant and animalized programmed at extending so eccary salegaed to boat concidents. As a special root colonies of posters with produces washed or parts and animalized posters washed to part animalized posters and animalized posters animalized poste

lemestrial insects dainy pollen from flower edity rather than to enlichten OC

Instant for Advanced Studies and the author of Wespans and Hope (Viscour & Row)

ENDANGERED BUSHMEN

LIFE

By Jim Naughton

Cole buttle careforely issued from the society of an eighten lands and de acceptant of buttle society of an eighten buttle society of a society of society of the society of society of the society of society of the society of the buttle society of society of and botto not of streety status and society of society and botto not of streety status and society of society the people must be not of the society of the society of the society of the buttle society of the society of the buttle society of the society of the buttle society the society of the buttle society the buttle the buttle society the buttle the buttle society the buttle society the buttle society the society the buttle society the society the society the society

There have exciten crystastion was shown to which on the level of a primal geodyle in the superior bit fair 7th Gode Most Be Casy; in reads, though, the Bushnerin peoples of Africa Sace a figure for more serious from the furbulence caused by a Cole bottle They are quite literally being threatened with definition.

The most endorqued group of Bushmen are the Julyase, who call insense his the well-manned paode Like other Bushmen, the Julyase contract the Kalanan Basin in Nasibia and Botswans, where they supported themselves by husting some crops. Then in 1970 the Julyase in Namba were placed on a government.

near-vision called Bushmaniand Toolsy fire Narrisan government were to law the most lentile protein of Bushmania to law the most lentile protein of Bushmania no man gowing Afront south market Under the new languistion. The Julyans will be allowed only to we or the land not be on which they depend for food. They will also be encouraged to dress in same and wender smort with tower and amont, orexample for the other and wender smort with tower and amont, orexample for the other hardy for most protein the huggly for any latter the croused with huggly for any latter or course for with the contraction of the manifest of the protein service of the protein service of the contraction of the protein service of the protein service the protein se

"To call the mature pask a destribliow is not a figure of spenich "explains eithingsache filmmaker John Marshall, whose life MAN, The Shary of a Wass, Worsin destribe the Businessite gradual descont from soft-sufficiency to economic hepiposness." It is not a metaphor for access description or collapsing values \$1.000.000. he says. Departing the Bushmen of the undreaf mean three and oil their has. borically proporers of he instance source est as a way to present the marging 30 co. but the source and allow threshold proposed sources are allow threshold proposed way of the But Claim Butches, coordinated to devaluate to Heaving and pulsament, command or Mang San Possible, source three three sources and proposed to the specific proposed proposed and proposed was to a further proposed and pulsaments. When the opposits was to say further proposed and pulsaments. When the opposits and pulsaments. When the opposits are some proposed and pulsaments. When the opposits of the pulsaments of the proposed proposed to the p

want him.

Land huggy politicisms, however are not the only dress who himse simple modes in modes in the land has a place of the modes of the want has formed with high we surried our backs on the want modes of the want has formed in the modes of the want has been an understanded in the surried our backs on the want has been sufficient or modes of the want has been surried our backs on the want has been surried our backs on the want has been surried out the surrie



A pagale on the adge of extraction

seen their traditional territories shirts in size locking them onto smaller and smaller measures. Many of them have clowshed into rutal slutter around various governmental outposts and army bases. There the South Allocan army bagan recruiting the unaducated and politically review Bushman to flottle seaves SWAPO the South Wass African.

Peoples Cogramation | Today (Authritier have the highest percentage of military service of any others group in the world |
Ther compressively huge anny selected |
The compressively huge anny selected |
The compressively huge par outpile incomeprovide the selected income to keep or time willingse stime |
Selected | Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected | Selected |
Selected |
Selected | Selected |
Selected |
Selected | Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
Selected |
S

Most the unablorhad open is damage. Most their read stopped hardring and gathering and wore just hanging around the settlement getting draink and lying on writing, she says. The proposed relate perk would make the more difficult for the table. If the even more difficult for the table. "No

see even more dissocial for this store a single person in southern Africa coin so nivel by subsistence stone—explains Marshal. "You have to have serris lariner member working for money But it's also true that no one can survive on a cash incores afore." In this way the Bushmen are still dependent on the land.

At this writing, the relate cost to being opposed by Andrieso Shapanga the new

Nambar minister of relater conversation. But even if the proposal is stantarood, the Julius ising find demodels in a proposal to the proposal stantaroom of the proposal to the Buttern in relating presented to having lought SWAPO. Some enthopologists between the proposal control of public all greaters do side of young Buttern to high But under either approximation to high But under either approximation on high Buttern and the proposal public and presented on the proposal support displayment to be playing in surroom either sperim OD.

wetcomer contributions to sell in the Bushns stuggle for self-distance to sell in the Bushns stuggle for self-distance This foundation can be contacted by writing to the "Kung Sam Foundation, Cultural Survival" 17 Debris Annua Cambridge MA (2018)

MINIO

By Jurith Hooper

in October 1944 when he were few years old. Mehy Chazanerthmidity his modifiant and the real of his family took the very last ham out of Budgeper before the old wis out of home feed augstless and bentland to annahusess. "Mell annahuse was that all our relatives demed the old variation sensits." They shap thinking that outsylthing would farm out to the best. Within a few months they were all dead a third form star valence of the old variation for the properties of the contributy. Now a post-bodgest at the Lenversity of how a post-bodgest at the Lenversity of

saw vision in from the bording?

Now a opportung at the Lunwriting of Chodago Colosswarth rails in this lever embo.

Chodago Colosswarth rails in this lever embo.

I be a large of the coloss perforancy livest-relead with peopless day no cay froughts. I a sawan of concounters the Whiten James disectioned on a new town flowing the sawant peopless day no cay froughts. And if their great from other browning the processors of comprehensive providence of the colosswarth release to the colosswarth release to

filled those watering focus. For the paid several years Celesconfirm-half has been doing just the. He worns to have what do poorter metally timk about during the day? What is towing through their stream of cornicious ness at they are story down in hort of Zheela Company.

and alaring a IV drinan?

To find out, he has been recruising people gent premiodebooks and beapens and having a comprofer signal from the modern times during the days wherever he produces the produces and the produces and the produces and the produces and the produces are produced and the produces are produced and the produces are produced as the produces are p

caught or with a number of psychology in the United States and observed who contributed to the world's first introdata betrie. Anthon ow includes see thousands of darry ortices. "Once the number are in the computer, you die back and selv any question you die collections on the computer of the Collection of the contributer." You can How co coucle feel when they are webthing TV with their termine, as opposed to with their termine, as opposed to the second termine their termine their termine the arms as eating in the althritonists. As a recult anyone with questions about labor termines. Duth native promotion of prospor with multiple personalities. Children with learning dissorbide. The didners and arraware in Casandrinhilly as computer arraware in Casandrinhilly as computer.

he noise. "It's not two hundred proprie taking the same test in the same noise filled the same time. But it has yielded some into pung insights. So what is going on in people's heads.

most of the time?

"One of the most surpassing things we bund is the importance of uniasustanted solitude in people's twee." Every Consumer initially. "If you look at anonocoo bulinties heavy, ITV viewers, children with an unifor activating in octhool anyone with any oct of problem theyer line as long as they re-with other people. But when they we line.

with nothing to do they led temble. Their moods plurmet. This is when they get it to

thiss pathological behaviors bringe eating purping and to on Sort looks as if the spery to obtain softed in a very good index of mental health. As James recognized implicin as also the

As James recognized motion is also the asserted of the different of consciousness and unlike a multiple choice test or a psychiatric riserview that takes hat an hou of beginning transporting the etio and low of these mental balas.

We bound that the mood owings of addescents are all best liver as special those of adults. Coleuraminhaly says Accessoris go from a light or low point a mode point every livery immutes while the adult takes over on hour.

the solab balance over in tour.

Equally comprising were the execute where it was tred on people with mental discipance with the probability of people with mental discipance with the probability of people of the people oversible of the people oversible of the people oversible of the people oversible ove

clinician thought was the storgest and out to be weekers in describing himsel. Using the same technique a Outsit, psychiatrial discovered screeting out about schizophrenics. They re celled drivers schizophrenics out they show encount discretion only alvery specification. Terms, reports Calescritimbay: Taken they show the story of the story of the trees, reports Calescritimbay.

midmoving or early attendors when he seally begins to special cut Matt psychiat seaums that if you've otherspherical you've schoophrenic you in schoophrenic all the time. But four times of live you can't teel a schoophrenic's entires from a normal poisons.

Although this might been the most,

chwas subject for psychology the doance of the soul is or contrapple in hold is a third less than the soul target the psychologist with their rating socies book at municipal warms to care sook the furnishing of contrapple of contrapple of the socies book at municipal target in contrapple of the socies book at municipal target and the socies book at municipal target and the socies book at municipal target and the socies of the society of the subjective since it is of a person. After the subjective since its of a person.



sinka w on usuas. We peob

PAINKILLER OR PARAIY7FR2



he play began the dozena of forever abased. A neck-snepping tackle. Until recently surgeons and medical

engulf 20,000 young Americans in 1986 Literrate medical dead and Studies that began last year however

Or Alan Feden and Dr John Haladay two researchers for the Walter React Army Institute of Research-used deductive rea-We suspected that the appoint that causes who is curently head of nourtingy at the San Francisco Veterans Administration the death of cells but also Impoers the he exclains. We theorized that these the mayors triffy of the damage. So blood the body's morphysillio substances that act

By resimbang the endopters with reso-

the spinal cord muny is not usually respon

half of normal, and the rate were nearly dead Five seconds after a relevene mec-40 subsequent studies—using arterals

research team, however was the realization endorphing-substances generally appropried as benevolent people liery. -- to a subsequent parelysis Next carrie an exhaustive series of sprint

even the researchers term 'an unbelievably

animals that did not got naloxone had says. "Ewas the first successful demonstraton that nationary descrip increases

Linfortunerely, nelosone also neutralized therotropie releasing hormore (TRHS—this acted in most respects as a natural array subsequent took show an even higher



The downside of the body it uppers. Entirephysionary contribute to perelysis Chin

THE ARTS

By Matthew Kiell

life-explored tensory of music. Microbrashin-dending the octave into more than the fluiditional 15 into-wast—so rothing new 11 and the market fluiditional 15 into-wast—so rothing new 11 as above 10 design movolese, and Alaam music has used movolese, and Alaam music has used them for octavalish been all the fingues moreolately has always been all the fingues moreolately has always been all the fingues moreolately has always and playground. If has been consisted diffused octavalishes and the second tensor of the control orbital section octavalishes and depth september solver to other these subjects of moreolated fluiditions and the second of the second o

was not ross possible and seasonal heroids decisioned to 3, 3 and 16 freete tempera as well on a 35-rote brane; relating to arrower 15 yettings proportions. Around 1500 tempera developed 16 from auto 1500 tempera developed 16 from auto 1500 tempera developed 16 from auto 1500 tempera developed 16 from works and isamy Partich worked outermovily with a 50-rote system 15 year out with guarter 50-rote system 15 year out with guarter twentieth contrary component as Economic Freedock Charles Nove Albert Hobia Ermet 10 from 150 till state of the 150 till state 150 till 150 till state of the 150 till state 150 till 1

Much at this music has required speciretured, redisagned and newly inventeristruments. The law microsonal institute to care. that have existed have been difficult to play and disagned for appoint surings or even opposite works. So macroinnly remained an obscure currently morthy in 1963 Authoriz Socialisasin composed a mortismal study using pormitive electronic equipment. Suct two classicals would pass before the behinding medical mortisma.

would pass before the betricting protect of a serious microrial enveloper was introduced the logistrians calculated and an usual microrial enveloper and the betrick and an usual microrial enveloper and an usual microrial enveloper and an usual enveloper and an enveloper and envelop

Misterial interested in explaining the capabilities of this new instrument sturid in Eneiling Blackwood the preson to use those tools a composer with an analystual med, highly developed mathematical skills, deep understanding of missels hermony and prodiposal statemant her knytboard Stroethie Scielatorik subsocial ameniment develop.

londens' music released from changing?

change when a composer ewitches from one monotonal tuning to another it takes a panet with exceptional montal and oligital deatherty to play a monotonal piece on the planotifie device.

With one of the 15 evening Scalabore in his office Blackwood studied the fravorit call relationships and musical possibilities of every morphoral furning from the 25 evening the 25 evening that the 25 evening to 6 but state ownpositions in each number to 6 but state structures and musical possibilities the tractional purpose of ethodes the extended in each state and the control of the processing the state of the control of the tractional purpose of ethodes the extended in each state and the control of the tractional purpose of ethodes in the tractional purpose in the tra

6 the hazinous purpose of thudes He whended in establish and travalen the thankball integring of each suring from 15 to 50 km and to drive complementally reasons against the mediated that complementally reasons against the mediated that complementally hazinous would provide falsen composers with a charact goalt. Each composer would no longed have to take hazing ret on unknown single of notes Hat of the lamings—10 kt 15 th 15 th

and SI —were writially virgo hormary in heal of Blackhood skips in vowerer of grant peoposal said. The a of the main herein as one-recover and the blackhood skips in which herein as one-recover and the blackhood skips in the see and a convenient so the discussion of blackhood skips in the property trackhood was they were all writer. The crity trackhood was they ware all writer. The crity trackhood was the second skip of the propile in know what is expected. The propile in know what is expected by the propile in the work of the propile in the second skips of the propile in the work of the propile in the second skips of the

missibility literates harmonic anticopate heaving missibility more than reducin disposed to be provided to the missibility and allowance at the mescale quality and allowance at the mescale quality and allowance at the mescale quality and allowance to the missibility and contained the unassibilities of the coales. A primary disease of the coales a primary disease of the coales. A primary disease of the coales and the provided to the coales the missibilities of the coales that what is an interest and that what is an interest as the coales and the missibilities of the coales and the coa

Public reaction has been favorable trahically the most negative reaction to études came from cortain segments of contractions retained.

NEW MOONS

STARS

By Ron Schulti

there's another satelite out there," he recalls

as the Voyager prosect is Rock Huntar to make sure Voyager got to where it was he could about the motion of the spacecraft basically have to track the motion of our

craft if was not an easy task since he receiver was 2 billion miles away. He also when the camera started taking pictures (To the octonal Moone of Uranua on page 923 a little like trying to get a sharp picture-

firs techniqui toat is a process called was within range of its target. The proofes

constantly corrected the view of the sexiceconsistent angle of view

to fixed objects as reference points. He £ can also turn up provously unknown

His first lurse discovery temporarily

albed or level of light reflection of about 5

have a determined patit in profer to qually was so ewit. the objects could be photocontroversy at the fast IAU General Assem-



CHALLENGER AND THE SOVIETS

was more and sources and others for come congress. The shared point clearly some is became of points to be a superior of the common of the c

SORING put chost on hadrons that included many fermious watermans, finish being former to the core of Chailburge, and My Nobilo sit in the closus. The never situement to fairs the open and not record to the control of the control of the conact most fairs. It is impossible to accept free bears are experienced to the control of the control of the control of the properties of the control of

auditional instruction in emission all gapta are Later Allievir door under the conference room, sumanished by a laght war of people discussion for feedballing of a spoon recove final white verification of the calculation and the Allievi land that were objected in other as a south analyse which Allievi land the street or people of the calculation. The allievies and the south of the calculation of the calculation of the allievies and the South Clean agoint air appropriet in 1972 to level out, a south of the calculation of the calculation. The allievies are on international feedballing and the people of the presenting politics at the calculation of the calculation of the presenting politics at the calculation of the calculation of the presenting politics at Characterisating politics. All calculations are for the calculation of calculation of the calculation of the calculation of calculat

the freshwere "Curry the Applicition of the Compress in the United States and the Shore United States and the page of the Shore United States and the Applicition of the second states are second states across to state across the Shore of th

in Mach 4 Conforgency?

If was a familiar displayment for Aflow There were political remnical towns in the answered energy year on to The American prisos was issuining, and not file away stood a cheek precising fluoreshies described with many of the Western districtions guassiand was the "political form with a highworth the Soviet scoreds.

touch the dispersacion, correct phrasing for what he warried to served in the served in these served in the served in the served in the served in the served

rememble rething left to do but pick the crew.

Clear selection, they all agreed, a mobiled to the success of the meson. How do you crease that a small group of people—eight to ten men and women—work (aggetter effectively in close quantities for the Stampha megament to wait the not planted and rething the state of the pensic commented that beautics being qualified, the crew members must all seaded be conditioned.

have a signing in Russea. The displacined, that those people must all appaind of salt taggifter. The Mayer crew should are get or clear the profitce between the prevent in from saving, will shake many missis, many expensions, many dangers. "But it is not desirated between the pool frends," Allow contin-"But it is not desirated between they be good frends," Allow contin-

Let us the constraint as that they respect one another as man and women, as professional space scretteds, whoul regard to politics or religion or who is the capitalist and who is the communiat "—DOMMA CHESHARE AND MOX ENGLER!

MORE THRILLING THAN SEX

if a right of personnel is be you likely greated their, joint to you likely greated their, joint to you likely greated their, joint greated their joint greated their joint areas produces of their greated after it as a special feeting—the a single-processing or produces of their greated after it as a special feeting—the a single-processing or produces of their greated after it as a special feeting—the a single-processing or produces of their greated after its as a special feeting—the a single-processing or produces of their greater of

James de la composition del composition de la co

pondents A specialist in brain ch y Galdalen conducto

y Suddavier concurrent study to fear more abor interging between music preparational integrates interpretation of preparation for the property of the same property of the same property of same property of the same property of the endogenous operation of the same of the same of the same of the same of same of

indones in the base of what we about morphine and of drugs, which probably in the same encepture brain as the encoperaporal peptides, it is nable to believe that peptides are in part reable for what we thinkly call the fix. "noise the believe that we thinkly call the fix." noise

may University planmaco on y profitsion Stagethen totteman. And it is very totteman and it is

odes this not have full so your Maybe so, duc drivingways, say how story you've better off going to a moe concert or heliet a chara. possible, as Soldstein's research suggests, that mu, as one of the things that brings those peopletes rill play "—Sherry flaker

APART PATCH

Link

the intervent down is all and makes the same as and makes the same as and makes as the core for the own and the core for the own and the core for the own and the core for the

Report approach to Feed to Appen

dust posich it like o

goes way up '
It seems to work. Alreas
the patch has helped say
woman with a heart amount a man whose heart is
badly scened.
So for the writinal work.

year It want wer replace to the team of te

Insaft the people with impessive heart failure de offern a year of despress, southern glo Dir Ray Chu, to devised the pacer lawerson uses. The rost to mit be emergency room any term the control of the property of property of the control of the

-Owen Dawes

OMEN

ee a woman's case in har husband a sace was a question per selang psychologist lanco Avary-Clieric indertook the firstducy of the assuably coroor couples in resulte? Men marris resulte? Men marris

dual corosi couples.
The results? Men manifed to career women do just fro—and their wires reach organized seat organized seat organized seat (sea 235 oouples (not resonairely hyposal of the person proportion) who

Materia and Jorneon Institution St. Louis between 1979 and 1985.

She looked for difference in the frequency of venous topos of survival monthlying in

in the frequency of venous year of instrust proteinms. Free different types of couples those in which the effects those in which the effects of popularity being in money of had a saroot an exchang losin of protein as a major source yearded as a major source.

of those memind to job women memind to job women. What's more, coreer women had originates more ability that other the job women or the housewest. Only 12 percent of the case women domplaned of or glasme dystanction conpess with 25 percent of the plan without the training of the housewest. Teachers

o women and 25 percent the housewerse. Twentytre housewerse the corner
arren, however, complement
with bited sexual deeper—
by had routin getting
the mood in the first.

pisce—while any 11 parco of the job and nonworking women complaned of this problem Dasin circler couples the continuous actions is more

have more than east of the data to note that the data to other facts that may be selwant if husbands work saturation and independent of the major that the saturation in the case of the saturation in the data or the saturation in the data or that the data or the saturation in the data or the saturation in the data or the data or

HEMORPHOED PISTOL

Hemorrhoods are one of the most embanished of the medical affections that plague men. But guide middle for this panish condition, in the guide of a certifial protection.

ires a beam of minared ight is said to have arrived on the scene
This should become the

This should become the shall-live method for health is all-live method for health is all-live method for sold suggeon. Ann of Concret of George West-region Live west by West-region West-region Live with a children and ne

reems periess."
Touse the power, O'Conror eighers, its names,
toot teng berrel (or longuide) is partly present
against the homorhood and
the imper is esumed,
causing a quick burst of intenee infraror light that
shrinks the homorhood, less
ing a small sour in so place.
The entire procedure occur in the decorn's chools, less
in the decorn's chools, less
in the decorn's chools.

ag a small sour in speak.
The entire procedure occ in the doctor's other, least a maximum of 15 mm/stee as and permits the potent do to fature to work the same day. Cost starts at \$550 at serings up to \$450 d over with an encoded.

The new sockings, kind as inhamed congulation.

as inflamed conquillation where participation is varied \$2 color surgery () Cornor togs, and if does a revery with the discomfort of widely used injuber-condition of the hemorital for thy flux Alexady several hundred doctors in the Unite States are revening patients with the new doctor. Anyone Sampler with rectangue of the other control of the contr





soon be applied to docks in delending the America's Cupvechis reed a roughered water of hoofs appendix. But it

yachts he says and on -Arthony Liversidge

-John Dryden

When an exploy-invo-year-

in-hospital visitation recently

The pet room, actually a

already snuck one pet pooch

new, boosts the morate of its owner-patent, possibly asharving medical recovery given and being taken gare of

pets, all of them clogs, have room, according to hospital spokesperson Jan Hagenhospital will ontertain the -Accommon

back parking to - Ene Maharz "The prymary obligation of intribigance is to distant



perk up it haspitel patien



"No, we don't pay for them."

-George Nobbe

-Havelock Ette



made the front page of 7he

CTUBERS On the average, one hundred swigen more peo-Thus, in the month following:

behavior "-- Esc Mahara

--- Kin Hybhant

"The artist is a member of the -Corr Consul





system " A search through



ne do Albert Sea cool havy out when they re not being boo

then its shootened by the one of a blavior overhead. And they've healy solved centures of the species of the seas. Where does the seas where they seem of the final diseptions of the seas of the season of the seas

pleaned one British government export. They oxidal navar understand why the bottom hawkers came up smply so ottom. The thansas to the opner legs, we've discovered that migration pleases opened. They pascert of their time half way between the surface, and the seebed. They halo had not also assessed to the time of the time half way to the seebed. They halo had not also seed to the time halo agent "—John Clocke".

> wese man looks vido e and does not regerd mail as too lide, nor reat as too big, for he is that there is no limit to resons?



don't are distingly treated was assured and contracts, but dooks in Aussia are song attending currents of not and contract.

AIR FOR BURNS later developed an apparatus.

Comply Princed as a local and a constant a constant

burned over 80 percent of his body. Because the use of creens greatly increases the risk of serious infection in cases of serious infection in cases of serious infection in cases of the creen is fer or created by the creen is feel a wing nutriery for opportunistic botters——doctors discisted to leave Antonerko Wassins find by chance his bed was in the chroid path of a death from the rooms temperature -control system.

could be enclosed in a presume chamber while tray blowers carespect his accuracy with tray and could are our most of occe periodical fine discount when the accuracy with the accuracy was a second of the discount with the accuracy with the accuracy with the accuracy with the accuracy accuracy periodical accuracy periodical accuracy periodical accuracy to periodic and accuracy to periodical accuracy to periodical accuracy to periodical accuracy to accuracy to periodical accuracy to a

—Bill Lawron
regic comes from the
rusation of the
efficient "
—Max Apple

—Misc Apple
"Reality is often inaccurate."
—Douglas Adavia
"Starting of Gilgament and
mading forward, I find no
evidence that corecountries

-Maniya Robinson



I work I tessed all the different

"My friend, all theory is oney

SCIENCE-FICTION QUIZ

teers been premark and been

ALCOHOLOGO O DE SAN Foody 3 3 mon great.co.d

(NOCTURE) DANCE I

- Henry Miles



ge seen by God. But with technical back.

This meeting of the Boston chepter of the L-6 Society illustrates trends laterio hold Sergeant Pepper days of the Seventee. ofigence Laboratory, courtery of the light spectability With an aggregate budget of \$30.5 million, these groups sporsor real tetsal iranigance and the development of now. nel lange sures of money to vancus NASA

Today according to writer Trusty Bell, the

solar-sail propulsion system. The independert Scace Research Group is building the American Space Foundation is lobbying for a manned US space station. To encourage female involvement in space, there's a group known as the Hypene Custer And the Inter-

national Association of Astronomical Artists in depicting guter space. With a collective membership of 300 000.

the orduce reflect a prowing public bulletyness on apace development. As Alan Wasf. "Most of us believe that our species must

If the pro-space groups have an angestor the Twenties and Thirties. A magnet for German scientists lengineers, and orginary ofmodated the young and zealous Wernhar yon Braun. Years later, after Yon Braun had. masterminded Germany's V-2 rocket prograin. I've geetiggo arrested from and changed

acted Wee a "spacophile" gene spliced onto

frontiers have always galverneed our no

It was Von Braun's conketry more in first opened the new salci west, located straight up. In the late Forses he created this country's tao booster rockets. During the Fiftee. he wote popular triticies and lectured nation of humans traveling in space as fartasy But on October 4, 1957, the Soviet Union January 31, 1958, he and his group sent up boosters, the first-stage rockets that carned in place it was only a matter of time before the advert of the manned 'night stuff' missons-Mercury Gerrers and Applio-cutminating when Net Armstrong stepped onto

the moon in July 1969. We had become a spacefarry species the preserve of metary men, teet priots and heroes. Then, in 1974, harking back to his



"Improve Concressmen Singles this passenger rection was personally described by Secretor William Program."

members the sense that they themselves could leave for the stars anytime abon. But he group was a start, and before long new anything the property of the start and before long new

capacitation appring use invasions stamped in a 6 Books, princed for the point shares the safety and particular stamped in the point shares the safety and particular stamped in a particular stamped in a capacitation with the Education, later to makes into the American Education, later to makes into the American Stamped in a community of the international community of the international community of the international community of the propriets of the property of the propriets of the safety of the Books of the Safety of the Safety

to encourage space entreptersous of the activate proteing for the steam storing at the storing at the

corriging, or Togotal storag possal, direct concerned weet their miles from the storage of the s

grasers end bednes "SEGS has remunded accer at Heady SEGS has remunded as caper at Heady SEGS has remunded as of being an extension, the disorder of general proportion must, how disorder of appeals proportion and proportion of the proportion and acceptance of the proportion and acceptance of the proportion and acceptance of the proportion of the propor

greets are referred in tops sharmery. All the sharcher dealer the coars and I NASA in lasted the said, which is pushed through the sold in system by pictoria forced to said. Nata is subset catching the wind. When NASA is subset catching the wind. When NASA their abendanced the project registers all enhanced cover fuelless solds satility about the Wards Space Foundation to develop the new technology providerly. They hope is lightle their protrigor with outs, for a the placetie their protrigor with outs, for a the size.

cruse straty
Meanwrise in Processor. New Jersey the
Space Studies Institute (SSI) is developing stochhologies needed for neather Gested
O'Norlin vision of cristing appoor habitage
scale or on bothis appument habitage
scale or onestication in space will be servine only with medicals bound in space or
set SSI bousses on exploring the moon raise
set SSI bousses on exploring the moon raise
set SSI bousses on exploring the moon raise
set SSI bousses on exploring the moon raise.
The set of the se

Back in the
 flaky Sergeant Papper
 days of the
 Seventess, L-5 members testified

before Congress wearing their Star Trek uniforms and weiving plastic ray ours.

In its Phineston workshop SSI has a hightech peashocair Piess a switch and poliets shoot out of a tube accelerate down stack. Then white lowest or hard program for her white lowest or him too, wayst launch what rocks and soil into space shooting hear into a serious contribution of the him not be and soil into space shooting hear rice behadmouts to are nothing ossib-

struct colones housing as many as about 10,000 seriers. Working in space with fundr sof requires other technologies as well. Rodewell International, in SSI subcontractor has already.

gen from luner soil Moon det is ispoul 40 percent oxygen is key component of tocket tusi says Maryniak. And oxygen is the gasdine of space."

SSI a size typing to bursdom the moons nook and die into construction melemiti. Working under NASA contracts, corpositions bursdom hard selected product from bursdom the tam appose of alarmman mober into construction bears. Since alarmating to manip propriete are not relay deal for space. SSI has bagan modificapoem bursdom to process Jama sof missed. According to Manymak future metroster might even be used to supply Earth with enangly SSI has determined he says, that engraces can convert moon dirt into virtually all compositions of the solar-power's statebox, which changes surlight into microwaves the microwaves can then be besimed to Earth and converted cheeply to electricity. Source proper today offer think in such

their drowns come true For example the tary Society founded by Carl Season and NASA's Bruce Murray, recently began op emano the world's most powerful receive for datacting signals from alien divikzations On September 29, 1965, at Harvard Uni warany's Dak Ridge Observatory in subur han Harvard Massachusetts move pro cradied in one arm throw the switch that suned on META the Negachannel Extraterteense Assay computer Spielberg had dorated \$100,000 to the Planetary Secretary numeral which uses a specially proproject was fixed, March 1996) Proviously the world's most powerful SETI (Search for Extratementral intelligence) project, also preventive by the Planetary Society, used only

Into BET receiver operated by Cornel or business Fish Council or Submired Fish Council or 1800. While Ist MITA-receiver make the million of radio agrees areing a from the operated or dealer agrees are submired. Fishering a final property of the property

equipment pould ecopyolish in one minute

a assert that would have taken 1 000 years

using the equipment of Project Clama-the

Other prospect organishma are also Cher prospect organishma are also feri. City cognession. Ted Ness, was viding against every NASA sudget "says LSA Alany Masses, who leads in Martian There time he had a term meeting, though own members good up and aguard that he sides against LS expositionand development space were counter to the netter's and file.

mentify begit interests.

Assumated Wees began to explain his vice in his hot frought noder in his vice in his different particular to expend should appear, but his interes there were decaded opposition to a supermore the project field properly and supermore the strong that both scrapped years ago, the AMAB budge of the dame of a supermore than the AMAB budge of the dame of a surprise of the AMAB budge of the dame of a surprise that the surprise that the action of the AMAB budge of the surprise that the action of the AMAB budge of the surprise that the surprise th

was our finest hour," says Wasser Nationally, L-5's finest political hour came in 1979, 1981, when the omarization led the concentrat to a U.N. treaty on space development It had one phrase the common hentage of mankind, which sounded wonterful but would have put severe limits on the use of space measurers, periodistly by private businesses," says Elisa Sist Wurm. founder of L-6's Buffalo, New York chapter. in effect the improving-sounding language would have socialized outer space, setting joint, intergovernmental undertakings by all the treaty's signatories virtually the only way to explor extratementral resources in ac-

continue with L-5's obsections, the U.S. voted against the treaty The single space organization that has thus far weeking incovvenient political cloud ham former director of the Defense Intelligence Agency and a torrier adviser to Ronald Reagan, who first interested the President in the orbiting prinning system. lobbying the country is now committed to

Over the last few years, disputes over SDI gave the pro-space movement its own inter-High Frontier are passionate actiocates of

space weapony, others—the 3cp Star Wars For most space advists though the ismay be because most ditzens disbate SDI in terms of its effect on the chances for nuricer was its page ten, its workshifty But

their own Will I slow or speed the develop-

Most sreperfectly willing to share the void with a floating argenal, it only they can got up there thomselves, and soon "it's changing the space program, in some ways for the batter, and we're not necessarily for or agreement it, make SS is Manymask "Western topriented " says Gien P Wilson, executive de meter of the National Space irests,te in

Today factionalism is warring in the prospace movement at large. In the works right now for instance, is a margar between the Neponal Space institute (NSI) the movethe pro-space-movement's Yoppes "Our in terests have converged," says Wilson There's lots more to do in space than colosee that A space station is the next lagisal

stop, for instance When they started out i terriy have metured. Cutting perces the categories, the activ

specien is a single urgo moving humanty into space. Even High Frontier with its military roots, has more in mind for space than a zero-g arrenel. "We'll be pushing for a Free World Space Academy," says Dan n such subjects as apace angineering. space mathematics and space law. The academy would be for the entire free world, he adds "It would tap all the great enthussem for space I've found among young peo-

nie in America, Europa, and Japan Indeed, it's that unbridled enthusiasm. paired with an almost mystical yearring to sion of what held like to see happen in water " says Gary Clason of L-6 " Now by NASA's amo schedule. I'll be eighty by the time they set up their first moon base that

computer-based communicators and an activist in airwara! pro-space organizations up urge. If freik hurriently is in its late adohascance, explorang our home's resources in properation to going out to earn our own way he says "harth created humans to ex-

and begin the trek to a new fronter seems to be infecting the general public as well When the shuttle Challanger exploded in



"Once, just once, I would also to see you make a decesion and shok to it."

EICTION

Every body is a book of blood. Wherever we're opened, we're red

THE BOOK OF BLOOD

he deed how highways:

They run, treating lines of ghost shock and yet for a decide or move. They run, treating lines of ghost shock and yet for a decide or move from a control to bland our leve, because the waste and baland our leve, because the waste not seep dump this devolve twenty and the control to the cont ion places of the world, through cracks - the house that ran from doorstep to see piacos of the world. Brogoly creates much by any county, weathers, when when the county is weather, we show it was a foreited. It was the motion of possible, and objective. There is brainly are larger to the motion of possible, and come is brainly are larger to the wells, and of waspood the bosses. If the braids county plany with well much county of the wells, and of waspood the bosses. If the braids county plany with well much county is trained to me most, a trained to the works on the trained braids of the plany with the plane of the county of the co have tumpikus and intersections it is at these parameters, where the ting in At some time in its history a hor crowds of dead minds and cross, that - or had been committed in that house

his forbidden highway is most likely to apil through into our world. The triatic is the untrained observer the approxime triany at the crossroads, and the voices atmosphere of the house, particularly the of the dead are at their most shrift. Here - top story, was unmistakable. There was

the Earnhois that separate one visibly long the next zero wors than with the year-sense of insurance level. Buch an witancedon on the highway of the doed was known of a Nimber of the budge and the services were the budge and the environs were the budge and the Saly-two, Didington Pisco, Just a basis frontest, mock Georgian detacted hours, Namber Saly-two was unon-markable in every other way, Analytic gettable house, shapped of the chasp led properties l

considers it had once this class to, it had possess if for long without magnify set

PAINTING BY ÉTIENNE SANDORFI



a kinde sits a tish's bely, and through that cut that wound in the world the dead peered cut and had then say. That was the numor anyway.

It was the find week of the investigation at Soty-leve, Tollington Place. Three week of unprecedented Jucquiss in the realm of

Using a newcomer to the business, a twenty-year-old called Simon McNeel, as a sedium the Essex University Parapaychic and List their accordant all his incontinuority.

medium the Essex University Parapsychology Unit had recorded all but incontroventtie evidance of its after death.

In the top soon of the house is clausingphotic corridor of a room, the McNicel box

project consist of a room, the subsets to by project consist of a room, the subsets of the room of the first consists evidence or her walls writing in a funded different hands on the pile of the walls hands on the pile of the walls hands on the pile of the walls hands of the pile of the walls the rayms of course and her test made death other. Progress for the mercies and well-wasters to their triving descendant starting all proposed for the mercies and well-wasters to their triving descendant starting all proposed for the mercies and well-wasters to their triving descendant starting and their control of the lower of the hands were square and some of the hands were square or some of the hands were square or some descendant promises the some of the hands were square or provided to the same series of the hands some some of the hands some some

The factous had come to the waking was industrial was than Landon and James James Landon and James James Industrial was industrial was industrial was industrial was a local to the debt and chase grown as local to the debt and chase growing day by day as shough word of mouth was spreading emorage the lost frees was extractly them and of states to sign this bases from with their soored presence.

After a littlemas work in the test of psychic treasuring them.

After a lifetime's work in the field of psychic research. Dooter florescu, was well scous-somed to the inancial case of flower. If had been aimset comfortable setting back into a cer sarry that the evidence would never manage road. Now the was toard with a suddon specifically appearance of the left both specifically appearance and she left both.

Bhe sat, as she had set for three incredible weeks in the main room on the misdell flow, an light of states down from the whing room, and fetered to the cheme of noises from upsters with a sort of axe, scarcelly during to believe that she was allowed to be present at this miscle.

There had been mistries before tantation

ing rints of vaces from aromer wond, ou this was the first time that province had in seated on being heard. Libitars the rolline stopped.

Many looked at her water: It was exactly so deverticed the For some essent best known to the visiors, the contact nover lasted much after se-

have come to that sortid little room and jets ther mark? "Shall I set up the cameras?" Reg Fuller

56 0866

hat "Please she mumured distracted by aspectation "Younder what we'll get loday?" "We'll sove him ten minutes".

> Upstains, Midvisel stumped in the corner of the room and westhed the October sun frough the tray window his late all tide shut in all stone in that dawn place but he still smiled to himself, for winn beatiful existe that maked even the motal academic heart. Espacisally Doctor Fiorescript. Oh yes, the women was influsated with his smile, list

women was infausted with his athle, he yest, the lost look he put on for her It was a fine game Indeed at this that was all it had been a game. Now Simon know they were playing for bigger states, what had begun as a so-

of the dispotant has had furnid into a very serous control. Motivatives as the fluid filter buttle was series that the principal has a fluid file and will have series the weal with large strade of lead he societed under his longue. He banged and threshed and should with

€The sky was Prussian blue, the highway

wide and windy, the dead pressed on every side . She fought through

them, while their gauping, idiot faces looked at her and hated her invesion?

out any provocation other from the sheer mechal of it. And the unknown names he wrote—ha, he laughed to think of it—the

Yes it was included a line game. She promised him so much of elempted him so much of elempted him with face, excouraging every lie that he inverted Promises of wealth of application appearances on the stewarter, of an advance had never known below. As for gis the produced the ghosts. His someth the artific legals. She called him.

pathetic electromer's at another series of somewhet makes and nonemes. He level if after the level if after the level if after the sessions were comed out with tim diversed only in a par of briefs, to proclude any Indden aids. Anotocitism procession, All the consider with the level in the level in the level in the level in the time of the level in the level in the level in the time of the level in level level in leve

eagy to fing himset around for half an hour, believing his head off. He was sweeting. The groove of his breastbore was slick with it his heir plashard work: He was looking forward to getting out of the room sharing himsel down, and beeking in admission admis The gobetween put his hand down his briefs and played with himself oilly. Somewhere in the room a fly or floss

Somewhete in the morn a fly or flos majobic ward happed it was taken the exson for fles, but he could here then anomwhere close. They truzzed and fetched against the window or around the light bub. He head there fine fly volces, but he clicht question them: he was too orgoosed in his thoughts of the game and in the sample de-

How they buzzed, those harmless meet voices buzzed and sang and complained like they complained.

Many Possess of promotion table with the

May Florescu diummed the totile with the tingers. Her weeding mig was loose today, she left is moving with the rhydmich feet sop pring. Sometimes it was high and semetimes bode one of those small mysterials that shello mixed analyzed properly but temply as-

She thought of Alanis face. Alanis deer take is the thought of it through it also made to their reading ring ast follows a burner website from the third that what his death had been like being carried away and yet either wave, dawn it but held to the clark? She through the grid deeper onto the hand. Through they they of their new finger and tharms also could aiment take the sour metal is a the located of I. Excerc next.

ous sensation an illusion of some form. To week the binnermess sensy to though off the boy it is table come easily so very easily splanning into the consciousness with its amile and his universative physique, off urmanity. He was like a grif in stilly—the sunderest of this file in sunderest of this file.

I head was bored to his business, or groused Mary started ahm will seemy the this country started ahm will seemy the miss, country should head or the country should have been a molecular or dought hydrodyn, nitrogen passed against her in an infraste entirous The nimbus around Fuller's beed seen speading thriding laten visions of the own object in the country for unfamiliary object in the country for unfamiliary object in the country for unfamiliary or seen and the country of the country of the country of the country of object in the country for unfamiliary or seen and the country of object in the country of the co

be fregeripe was speading to 2th could see the color of his broath as the enhaled on a pinky orange glamour in the bubbling as 2the could here cuive clearly the vice of the desk she sat at the low whine of its solid presence. The world was operating up throwing her senses most amongstage covering them into a

wild contission of functions. Shi sala capital bile sucidenty, of knowing the world as a system include politics or religions but as a system of senses a system that spread out from the liveror least to the year exceld of her donk. to the stale gold of her wedding ring.
And further Beyond wood, bayond gold.
The crack that lad to the highway opened to be been about the properties.

no lying mouth.
She looked up, or rather some force thrust has head back violently and she found herself staming up at the ceiling. It was covered with woms. No, that was absuid! It seemed to be alse, though, maggoty with the—public.

Sha could see the boy through the onling. He was defing on the floor, with his paining member in its hand. He head was thrown back Nea hers. He was as lost in the octions or she was the rise was the first bining light in and around his loody—floored the casson that was sected in his out and his looking.

head motion with plassace. If saw another sight, the lent him, the absence of power where shall thought than had been something workshall, he had no taken to common with ghost nor had were had, she now this plassly his was a little list. a boy ha, a week, who boy lar without the compassion of the wisdom to uncertaint.

what he had clared to do.

Now it was done. The lies were told, the holes played, and the people on the highway were lick beyond death of being manaphisentals and mocked And row they were buzzing at the crisck in the wall de-

way were sick beyond clearn of boing missepresented and mocked. And now they were buzzing at the crack in the wall demarking setistation. That crack one had opened, she had unlapowingly triggered and furthfield at unlabel.

rigit by allow disprace. Her charen by methyland done that the revidence throught of him, her hystation, her head and her disputs at him, her hystation, her head and her disputs at her haste help used to the calculation of the powers that mode the system marked, how, and it for companion passion, and ther companion loss, were the most potent. How every the companion to the companion that the companion to the co

go orandos. It wasn't trua! She wanted hat wanted him now doop inside her Exoupt that now it was too bite. The Institutousle be derived no longuit. It diamanded yet if diamanded access to the kitte indisser. She was helpkiss to prevent it. All side could do was utar a larry grasp of horizo as

and understood that this was no common intersection they slood at Fullar heard the sound "Doctor?" He looked up from his tinkering, and his tace—easihed with a blue light she pools see from the common of his eye—

ore an expression of requely
"Did you say something?" he asked
She thought, with a tilip of her stamach,
of how this was bound to end.
The either faces of the dead were quite
there is here fall her. She novid took the inte-

of how this was bound to end.

The either faces of the dead were quite clear in front of her Shis bould see the pro-libundity of their suffaring, and othercould sympathics with their action to be heard.

She saw glastly half he highways fair crosses of billoging Place were ond comtromes of billoging Place were ond comhe heapy sting side-office activacy does be a still be still be still be still be still be only to the worker and the proportion or who had add one diversing all the part nerver had set to made, with been minds based to act beyond worker than the part nerver had been still been still been still been and guern beyond worker than one still been and guern beyond worker than the still been and guern beyond worker than the still been and guern beyond with the more still been as guern beyond worker than the still been and the guern beyond the still be still be a still be and guern beyond the still be a still be a still be a still guern beyond the still be a still be a still be a still be got the still be a still

ensativas unapolani farbaddan manoles of our species. Chatering and having their Jabberwads.

Nowtherboy libove for sensed them. She sawhim bun a little in the select room i knowing that the voices his haad leave no fly voices his complaint is were not invoice on personal has been addressed, and their this next of it the Time! Fourth and First has next of it the Time! Fourth and First words were present all services.

age to be preceding at the project of the grand memorable. The sight of his perior was also in aircell and is steen to have feet as the based from as the half always longed to but if was not a last that married their sestee—it was not a last that married their sestee—it was not a growing perior. If held have up held employing social The hashing plants was not a the same of all their half plants registed the same of a their project married of their project married.

That the child learns
Please—
That was care and gifts
Please—

That even the dead surely, even the lust know and obey

Today there would be no such mercy given site knew for certain. These glossis had deepward on the highway a growing age bearing the wounds they had deel with and the marrises they had suspressed with They had endured the levely and mosteroo has sincide. In the bitchnoise not has had made a getter of their ordered. They warrised to provide the suspension of their ordered.

Ruler was peering at her more closely his on now awarening in a sea of pulsing ornge light. Size tot his hands on her skinney tested of vineger.

"Are you all right: Doctor Rorescu?" he

said, his breath like iron.

She shook her head.
No she was not all right nothing was right.
The parkit was gaping widor every sec-

and Through it she could see another say, the slate heavens that loured over the highway. And it overwhelmed the more reality of the house.

"Please" she said, her ever rolling up to

Wider Wider— The brittle world she inhabited w



Frankly, I'm ford up with brilliant, independent think



"They're back"

POLTERGEIST II

A FREDDIE FIELDS Presentation of A VICTOR-GRAIS PRODUCTION

Saming JOSETH WILLIAMS CRAIG T NELSON
"POLITERGEST II"
HEATHER CROURKE OLIVER ROBINS JULIAN RECK

ZELDARIBINSTEN WILL SYMPSON CERALONE FIZZOERALD

Mass by JERNY GOLDSWITH Develor of Photography ANDREW USZOLA ASC.
fects Supervisor RICHAPD EDULIND Visual Concepts by H.R. GIGER ASSOCIATE Producer LYNN AROST
Extourive Producer FREDDIE FIELDS Wiltims & Produced by MICHAEL GRANG and MARK WICTOR

Develor by BRIPAN GRISON

Develor by BRIPAN GRISON



OPENS NATIONWIDE MAY 23rd

Coming soon: a small space-relay device that may someday save your life



GEOSTAR

BY GERARD K O'NEILL

Martin valvens last the decir of a range sarboat The skapper streets to see sounds, he glances down at a waterproof display and reads "Submerged rocks 200 yards sheed Safe pensage 20 degrees starboard or 30 degrees to port. He plances at the mensal fren spice fre wheel to fre nght. A half-minute later he spots telltale waves breaking indicating the rocks that he has now safely passed highway A lone sounds and the criver looks at a terminal above his dealtboard it says, "Rease key Fif running a full load. N if not " He keys N, and seconds later another message appears. "Load syntable 20 miles abend. 10 miles north of interstate Please key OK for pickup directions

> PHOTOGRAPH BY PETE TURNER



These messages, one worring a sale or inside change the other detailers a trudent to a commission deporturity, are actually as a stress of the commission of

pedicipal consistency of the designation was pedicipal consistency of the designation with Georgia transless data designation with the company of the conventional visco or disa systems, which instrums distinguished contritions with accuracy positioning used their pedicipal contribution of the contribution of the convention of the contribution of the contribution

Inexpansive lightweight radios, called "transceivers," send and receive digital massages through special satellities to Geostar Central. Once in mass production, transcrivers will cost only a few hundred.

distance. The transceiver use never has to meth-made interpretary charmed—allians—emborrace interpretary charmed—allians—convenients to broadcast agrass from the Goostor condition combined and the standard convenient use used for the transceiver has the contract from the transceivers to the calculate standard contract the standard contract and the standa

The Gooder acolors 22000 mile acolor the senting of the mean has need to the property of the senting of the mean has need to the senting of the mean has need to the senting of the sentin

cess other database services.

The system will also help to solve crimes including pair theft. When a Geostan-spapped citr is broken into the control.

officers on route the description and incemel-plate number of the stolen vehicle its

contention for surface of the solors worked as contentions and the solors with the solors with the Although the Contention solors and the contention and the contention and the colors of the contention as solors are the contention at the Contention and the colors and the contention and the colors and the content colors and the colors and separate to a from that the colors and separate to a from that the colors and separate the colors and separate the colors and the colors and the colors and color

cover adoressed by the code well discover the region for subscription of which the desired by the region for subscription of which the desired by the region of the connection of the connection

Ser egital influences it, dusting influences in the minimum and command in services in the services in the services in services in the services in services in the services in As the services in the services in As th

spanse in place of a terrain height. The computer sloce any message out, then tisserints a tirel palmoveledgment cooked with the transceiver's "Timperoper Sides about 80 feets of a second Crost her message in author partner. Once the message in author partner. The country for cooking to cook of course, potential Grouter authorises whose larger and the previously secondor. To cooking notice to be supply conditions with all partners and the previously secondor. To cooking notice to be supply conditions where the properties of the processing of cooking the cooking th



"By all means get a second opinion. But I assure you that you are in

There is a dry pla With a notable exception, most storms

are short. But in rost mimites a tentothat leaks or blows down can spoil your fun for days. That's why it's was Eureka! StormShield Tents keep you

nter-in roofs, awnings and floors. And their flow through ventilation of weather. Eureical StormShield Tents stand

in the wind. Their shock-absorbers rotoct you everywhere wind might

Shoone from 40 Eurokal StormShield

ext. 808, for dealer locations (In Alsoles or Hawan, call 1 800-821-3777.) And

achieves its accuracy by comparing the re-



member the individual podes. The letters H

message was sant She have in Fine. monton each transceiver will burn the trans-

cryster off. For an access fording its way to a ton of a second, will make if preside to sprambled in the outbound transmissions

line to the addressed Because Goostan click range for next 4 misutes. Nearest called numbers). The sender need not re-

medium. Beth planes had complete instrupalled by the prounstances of the accident Geostar was described to scale, sorregy and

vectors without waiting-payably many The Geostar Corporation was formed early in 1983. As it grow potential users learned

cars, bosts and security darm systems availon associators, minued compenses.

young By September of 1983 intest motorn

haddon marriers in a field Care were digrame is Geostiar Central were different

tal United States in 1996 Services will ru Genetar's antelions to the control cround companies dispatch headquarters. A free General relay, with two way complete, will working with either of the original two will make Work is also in progress arried toward a worktwide repairmen of George Aust as satellites pould supply the entire world Geostar's first years have been exching

and take-a ride at breakness speed over as that ride has been, it has brought the reare likely to be limited DO



in the quest to regain the America's Cup.

Please remember to include \$2.00 for postage and handling

MOUNT GAY RUM





AGAINST BABYLON

If the were like the movies, these grant aliens would be film characters, and everything would be okay by the final ree! PAINTING BY MAX ERNST

Uarmichael flew in from New

Misseo that morning, and the first thing they told him when he gut his little plane down at Burbank was that here were burning out of

If the plants down as outcome was mat nest were coming our or control all remark the too Angeles basin. He was nested bad they told him. It was late October the height of the brushfre season in Southern California, and a linck hand, dry word was blowing out of the desert and the lest ham of had remed was the first of April

BY ROBERT SILVERBERG

He changed the district supervisor notif laway. ass out here on the line chutolo last, Milvo "The worst one's and above Chatrworth

We've got planes loaded and ready to go Tipoari troe to one and to chose my wild

been flying since half past four, and it had been rough all the way getting pushed heart of the continent that was now threatening to fan the flames in L.A. At this moregard fre-fighting work as optional This amost wished that if would He haled this

smoggy tawary Babylon of a city: its end houses, the fifty or the fack choking, in word ways. These was a cheepress, a trashiness, about everything here, he move sets. He sometimes le'I that the trashness bothered him more than the cultimed slipped up around you and infiltrated you

nout writers your even knowing is. He hoped that his segum in Los Angeles was not doing that to him. He came from the Valloy, and what he mount by the Volicy was the most the Hitle cluttered San Famando Valloy froy had hare But L.A. was Cindy's one and for Circly's sake he had leved have seven a row he had gone out to dump chemical regardents on the annual brushfires, to save the Anneiron from their own state care-

bities Carrichael beleved the little studio where Cardy made her yow-It was too early to call her at the pallery. That bothered him, not being able to say hallo to her note your after his three day absence eight or ten hours. But there was nothing he

at Van Nuxe: he felt the blast of suciden heat eightes at Burbank, damined will hot ground a hundred. He heard the distant rose of flames, the popping and cracking of burn

Planes were coming and going with knatic figures of every sort, forty and fifty years old and oven older converted B-17 Flying For-Transfer from the 1935's that had been haused marks out of some move studio's collection. Some were equipped with tarks: that held the retardant chemicals, some wore glistening on their snouts. Harsed looking men and women ran back and forth shoul-

ing process. Carrischael found his way to Oppositions HQ, which was full of happand people staring into computer screens. He One of the dispatchers seed "We've got a store; this are, from Ybarra Canyon cestward to Horse Flats. The treis in the Sansa Susana foothile, and so far the words from Granacia Halls and right on down to Ventura

ing into GB handsets, supervising the load-

The dispatcher tapped his keyboard. The boen showing disappeared and was replaced by one of the ortro Los Angeles let streets extended fee zones. this one along off to the east in the grasstands north of the 210 Emergry arrand Glondora or Sen Di mas, and a fried down in existent Orange big tree so for "the dispatcher said." But Yeah." Cermichael said. A single well of

fre number along the whole election firm of blowing, patrying sparks westward across Pasasiena, aceres downtown L.A. across count to Viscon Santa Moning Malbui He morrah, worse than the fall of Nineven's Nothand a carload of dumb lode tossing crosretes can do the ob us; as easily "he sad But this wount connected, Méan, the day patcher swc

"There remains: Professor Sterrmotz, a little problem of static electricity."

No? What then lesson? Copyright ID 7086 by Asberg Util Twe been in New Maxico for the last three days.

Noure the only one in the world who heart

head, then's pale heard whet?
For Crinit's pale heard whet?
Rocct the ETs, read the depatchs wearly. They started the fires. Three spaceships landing at set this merring it these offlerent conners of their LA basin The heat of their angrhas grided the dry grass.
Camerahead did not startle. Plass you do not

Carmichael did not ornile "Nouve got o ward series of humor mith The diapaticher said." Tim not joking Spacoships" Floor another world? "With onlose lifteen half high onlocati the dispaticher at the next computer se

the dispatcher at the next computer seld. "They need working around on the histories right this minute Prinser load high Mike." "Men from Mars?" Nobody knows where the hall they came

Nabody knows where he hall they carrietern: Christ, God, Carmichael said. Wid updaths from the bissic buffeted the plane in the took is add that given firm a few ball stocental Suttle moved early and butomaccally to gain contract pushing the moves out of the underground settlemes of the nervous system. It was essential his believed to have the moves in your fingets, your shouldess, your flights nother than in the concessor related by your team. Our Schoolse He has the place supporting and managed a print CS are less than you have been found to the his block light prime though the place the block light prime though the place was born the love of the place was the his was born the love of the place was the his was the love of the place was the love of the was the love of the love of the love of the agent of the love of the love of the love of agent of the love of the love of the agent of the love of the love of agent of the love of the lov

before heading up across Canopp Perkind Unitariothe Tele Perkinder Telepatron Telepatron

require to make a strike a strike of the common of the com

Where the neat rows and circles of sub-

The Promise.

Renault Alliance's European technology will give you superior room, riding comfort and driving ease.



unitive streets enclad there was a great open direction to grastly what packed by the souther comment to the color of a lotes hade, and beyond that wase the maximum, and between the grastland and the mark task sign ha les an encorrose. Spleasi et oreal topped by plume of that black andre in teremost selfready cover hundreds of a creek single plume of the shortest area of burning thousance. A harded serve of burning thousance in A harded serve of burning thousance harded serve grant to so much feet energy as the quarte barries.

Through the cracife of radio static came the vace of the line boas discerting operations from a histoplain towering at about four object. "DC-3 who are you?"

"Carrestated when are for an three sides, Carrestated from the east. Lamekin Carrestated from who can be east. Lamekin

Canyon down the flank of Poner Planch Park. Got it? **
Cast it ** Carmichael said. His flow low less flan a thousand fleet. The gover him a good verw of the addice sawyers in hald halls and deenge shells chopping burning less so make their fall toward the fire Eufoldoor clews clearing bush aheal.

It running like a bloody gatch from wear to seat winder at the weeting most Judio cast of the first list type has a concular came of grassiant's perhaps, a hundred cates in digrassiant's perhaps, a hundred cates in dipersionally all the control of his zone should be seen of a ternitory building, surrounded the seen of a ternitory building, surrounded as operationable distance byte, acrossin of military withouths. If it fills aware of distances soon fractions for the EET grassiant has seen for the ternitory building.

ook titoogh ha mind. That thing, he resiued had be the ET is gassing. It has come as of the heart of the time and of the west in the right. Carmichael insight folding like a transidium refere over Cenad and Camasio. Salling towards the western end of the San Fernando Valley lessen, the grass with its exhaut and leaving a rail of them behind it. And that it had purify set free! down over three and eshinasted it seen tought in in

4. And Short I had partily set faired down over three and designation dis own household in 4. Sheet little bride about deed not carring at all about the better of many about district cooks, and God lineaue what sind of cross and God lineaue what sind of cross Angeles: If specially the set is 2000 as, mally did make a landing out in the open is would be an it. A Probability they had done in fibroscie they had soon cook date on take wasterney and the set of the set of the sware—definit of the dones are platful. I'm

vision—didn't all the stones say that UFO people always montained our TV transmissions? So they saw L.A. on every ablar show, and they probably figured if was the capital of the world. The partiest place for the first.

this business needed to poli, the heapful of the his season to put that whose come heavy to be a season to put that whose come heavy the heapful of the season to be a seas

with the hinded are like 1 Los Angeles was built of a clause we went of horse in himself, and all of a clause we went of horse in himself, and definition of the like 1 Los and a clause of the definition of the like 1 Los and a clause of the definition of the like 2 Los and a clause of the other losses were a clause of the like 2 of the losses of the like 2 Los and a clause of the losses of the like 2 Los and a clause of the losses of the like 3 Los and a clause of the losses when the least is there and it is an all the like 2 losses of the like 3 Los and a clause of the like 3 losses of the losses

The Proof.

100 new car shoppers' compared Renault Alliance to Toyota Corolla, 76 chose Renault superior overall.



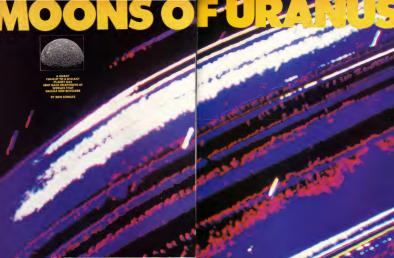
Renault Alliance DL 1.7 litre	Constant/ Convenience 85	Riding Condert 82	70	1nterior 89	Exterior 72	Overall Superiority 76
Toyota Corolla Dlx 1.6 litre	15	18	30	11	28	24

And Alliance's winning ways continue through 1986 with...improved fael economy. 41 MPG HWY, 35 MPG CITY! New options, too: Accusound by Jensen, a premium 6-speaker system and tilt stoering wheel Alliance DL (shown), \$7360: 2-door prices start.

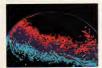
system and tilt starering wheel Alliance DL(shown), \$7360! 2 door prices star at only \$3999! One of America's best small-car protection plans. It cover the powertrain and outer-body rustlaticities through for 5 years, or 50,000 miles?

nen drive an Alliance and Jet European technology
uilt in America prove its promise to you.

THE ONE TO WATCH







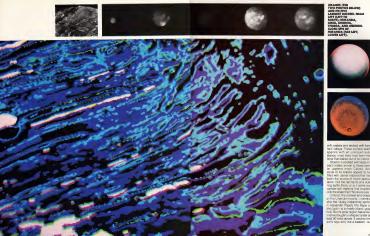


VIEWS OF URANUS (AROYE AND TOP); ARIEL (AROYE CENTER); AND

This way I looks the welled bluegreen grant of the solar system, welcomed as first visitor from Earth. the Voyager & songerrat: Finanof space, the robot explorer showed us a portrait of a batting planet one completely covered with an open 5,000 miles deep. stroucied in a stronglys strongphere, and tried so far on its oxes that it almost appears to be whit-

ing on its side But the biggest surprise of all offored up by the ranged planet was its two moons Operon Titania (named after the fairy king and queen in A Midsummer Night's Breami, Umphel, Anel, and Miicy systems appear to be drag uninteresting objects, up close they districtive geological characters.
The surface of Titania, the larg-STRANGE RECTANGULAR The surface of Titania the larg-parch (AT RIGHT). eet and outermost moon is prised



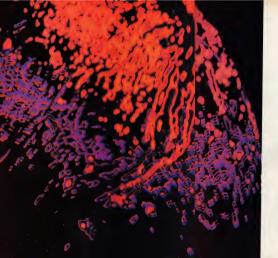


AND ITS FIVE LARGEST MOONS, NEAR LEFT (LEFT TO RIGHT): MIRANDA





with craters and etched with long fault valleys. These surface scars tenal that leaked out of its interior pact craters armler to those seen on Alpters moon Callisto And carbon not material that enucted after the "dusks: melancholy spets" in Alexander Pope's The Rope of the Lock-is a mostly bland, gray



flects back 30 percent more light. then the rest of the moon's surface for the tary prankater in 7he Aympest its fractured topography and jumbled crust are evidence of a huge fault system But most engradic of all is Miranda the innermost of the Lisan

salar systems peology it has the gergantuan variety of Mars the grooved terrain of Jupiter's moon Garymede, and tauts like those sees on Mercury "It is all the strange places roted into one" marvels Larry Soder tory "If you took at the bizaire geo-

logical testures and out them on As Voyager Natived on lowerd Necture it left befand a mass of class that will take years to digest As a result at its visit our weam of plans has been changed forever elites will leave planetologists, as one expert put it 'hoppey bowl clared" for some arms to come CO

THE TORMENTED GEOSCAPE OF ARIEL (OPPOSITE) IS NOT NEARLY AS IS NOT NEARLY AS
REZARRE AS
REZARRE AS
MIRANDA'S (BELOW AND
BELOW MIDDILE)
BUT IS MORE SCARRED
RY FAULTS THAM
UMBRIEL (AF ROTYOM
LEFT) AND OBERON
(AT BOTTOM RIGHT).









POWER

public support for space development But relachings in the space group headousy. services, says L-6's Gary Okoson The transity burned out a lot of accepts says Olegon Somewhere in the last twenty

years, the shuffle became a symbol of our move into apage, but nobody seems to have dispater, an ABC/Washington Post poli-

I graw up in Tennessee, hooking mules to warpons to hearl cotton to the old cofform had proumatic tres on our wegon." Men Pourrein a langtime pro space organizabon leader and activist. "Now I'm seriously.

want a space colony. And then a colony This concration, says Pourrelle, has a change to become the first true spacefarers National Scace Club, 655 Filtrents Street

ide "What's most important" he says "is that billion year future. That future is in space. OMNES PRO-SPACE DIRECTORY

went Status Report and Directory of the American Strace Interest Movement, 1984. and action Today E. Bell. 11 Riverside Drive. ISGW New York NY 10023 The Plurietary Society 65 North Catalina Avenue Pasadona, CA 91105 (816-795-6100) 1-6 Somety, 1060 East Fire Street, Tucson, Nasonal Space Instrum. West Wing Suite

203 ROO Maryland Avenue SW Woshing-High Frontier 1010 Vermont Avenue NW Subs 1000, Washington, DC 20005 (200-737-Space Studies Institute 265 Rosadalo Road

Young Astronaut Council 1015 Filteenth

Students for the Exploration and Development of Space (SEDS), 600 Twenty-limit

NW Westeroton DC 200051202-609-42101 Warren in Aerospace 62128 Old Keena Mil Arrenden Institute of Agronautics and Astro-

Internetional Association of Astronomical

American Society of Aerospace Priors, 930 Hypatha Cluster 164 Dolores Street San Principing CA 94103 (415-862-0141) Congressional Space Caucus, 1516 Long-

Washington, DC 20615 (200-226-4261) United States Space Foundation, 1525 Va-Radio Amateur Satelite Corporation Box 27, Washington, DC 20044 (30) 689-6060) Interendent Space Research Group, Box

Compaign for Space Box 1606, Bombridge,



Desnile unaredictable risks and unimaginable consequences, manned space exploration will continue, says the author of The Discoverers, because it is the irresistible fate of adventuring humanity

INTERVIEW

han Challenger exploded in the face of a shocked world, the tragedy destroyed more than seven pre-pous lives and \$2.5 billion worth of high technology The catastrophe also shallered the stusion that space travel had become routine-that space was now hospitable to the mothers of small children and not the most hostile and alien environment humans have ever explored. As NASAs image cracked and lief apart, people pondered the hubrs that brought down the vencesance of the gods and even wondered if our hopus of voyaging to the distant stars most not be just droams Deniel J. Boorstin, for one, dismisses such doubts. In his waw forever urges us to explore to the limit and beyond "We should

and will try to go as far as we can," housive. People's hurranity

has in discovering the boundlessness of our powers, which we can

never define. To fail to do all we can do is to tail to be human." Boorson should know, for he has spent a large chunk of he life theriang about humanity's casseling quest for new worlds to conquar The environs Librarian of Congress is the historian and author of The Discoverers, the popular "history of man's search to know the world and himself. The book embodies Boorstons belief that the asplaning spirit has played a deceive role in shaping human alters and energetically collebrates "the courage the rethness. the beson and imponitive thrusts of the great discoverers

his pages are crowded with the colorful true tales of the discouthere is a street in human netweithal cannot be deried, one that learn and inventors, the countless Columbuses who have ventured into terra incognite to make the unknown known A sturdy sangurer sixty-ring, Boorsto himself is an axed ox

plant of life, with an insatistic appetits for traveling the outer PHOTOGRAPH BY MIKE MITCHELL



reaction of knowledge hims, specified and reflected theaget being price Estimated terms, an information resolution, bloodsolver hims yet for facts of lay had him more oversy war of knowledge his comes scross, more laypearing consistents. Julin Laren of Chamelheam more acting new eldige of behavior actipating consistents. Julin Laren of Chamelheam more care present the Mendellatives New-Hour, days Boorean in law riscredes in mer of date in the man had him as of consistent new draws for man had him as of the low-him days young He cares about things the dopen't have about the colorations.

process goes on and on Whether his enthusiasm is cause or oftect. Branster has excelled at every stage own account, is that he had to give up when A short page-champing man, Boarstin was born of immigrant Russian Jovesh stock in uel helped detend Leo Frank, the factory suorewup in Tussa. Oktohoma where the tarn by tied to avoid the wave of anti-Sumitum that followed the notorious case. From the relatively modest launch site. The Boorston carpor took off on the surns trajectory as an Apoliomoon shot At Harvard by age fifteen he was an editor of the Comson and won the Bowdon prote for an easay on Gibbons s the book he values most. He studied biochamstry for a write graduating summa pum tauck in English history and literature A prized double fest (two fest-class do-Coming home to get his doctorate in junisenudence at Your he breefy taught at Harward and became a government lawyer in passined professor of history at the Universety of Chicago, with tags abroad to teach at the Sortranne and in Kyoto, Cambridge, and Rome At Chicago where he jorned James Weenon (of DNA terre) bed-watching, he built notini history of America, The Americania The thet volume woo a Platoy pres in 1973 Another Boorstin classic is 77e image: A land of unrealty and created colebrates

whom Bootstin withly defined as people who are well-known to their well-knownness. In 1969 he left Change, for Westington to become different of the Smithboursen's Nibored Misseum of Hassay and Technology. Throat in Eachbook, an event of Technology proper them in 1974 bootstin who cause project them in 1974 bootstin who cause project the property of the 1974 of the project them in 1974 bootstin who cause to provide the property of the 1974 of the project them in 1974 bootstin who cause to provide the property of the throat the project of the throat of Congress. He was continued what the Libette of the project of the Libette of the project of the project of the continued of the throat continued the throat throa

hazing, complicated by concern that he might pend operarment have writing his books, and since being office he has lead to typewhere his subject being being bedner of the Domestine sharp with the subject to the property of the property of

> €The triumphs of American civilization have all been

triumphs of community as well as of individuals. Columbus could not have gotten

anywhere without his crew.9

Batho and Supreme Court Justice Byron
White year in a firmful shall read the
Dacemaker of Independence letter funds
year Funds of the Potential country
entered on the banks of the Potential across
these Mount Vennon
premium Anthony Luveridge called on
their a Potential in the Potential called on
their air Potential Country

Teresteries Anthony Luveridge called on
their air Potential in the Potential in Monthly

OC Brow was thing and it was not alway when more proper was bounding out of teel the bases, who amended no door in part of teel the bases, who amended no door in part of teel the bases, who amended no door in part of teel the bases which was a few deboth and exapped with poe and plack. Otymer, which was do infection professional order to be controlled and Storeteeper for the custom both in progress. The Classics of the Country of the cou

Geser The Challenger fragedly giver pluttle to merry who advectived first human exploration of space should proceed at full firsttle But you believe, don't you that "space is

the new sea and we must sail upon #," as President Konnady said?

Boostan We or not the onto 1.4 A Fe and Thomade saying list. I will be Off the Distraction saying list. I will be Off the Distraction saying list. I have been districted to the Distriction of the original saying list. I have been districted to the original say saying list. I have been districted to the original saying list. I say when the original saying lists of the west or the say is always from the distriction of the original saying lists of the saying lists of the original saying lists of the saying lists of the original saying lists of the saying lists of the original saying lists when we shall of the original saying lists of the original sa

booker's Lock Tubics have the on. The file will be provided by Country 11 May sea you could prove the placestering responses you could prove the placestering responses would be a further than Country and the rest out the country of the placestering of the placestering the place

set what their consequences migrit car.

Chesi lint it see a mythology of since like
the mythology of the West in the egitteen
hundreds, which was promoted by the eats
of land speculators that pranted it as a Carcland Speculators that pranted it as a Carcland Speculators that pranted it as a Carcland Standard, at that the importance of the
medium of the careful of an outfor it don't
ment with east of the careful of an outfor it don't

time draws demonstrate Detects in which is now the most which aged of the country! I don't see any resignant bitted cooker de strope. But an opportunity to resignate on any opportunity or there was not be resigned on a notification there was not be obtained from American society curstise programs resource for the through was after proposal in many pointing or space outported on Those continues provide profit provides and the Sufficient profit on the provides of the support of our hardward on Suffirment. Once with any set or immediate effect of the Creek William set or immediate effect of the Creek William set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek with a set or immediate effect of the creek or immediate effect or immediate effect of the creek with a set or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect of the creek or immediate effect or immediate effect or immediate effect or immediate effect or im

Great What was the immediate effect of the shifted explosion. The shifted classifier calculated people from encompany to calculated people from encompany to calculated with inger in may book 7% inages I celerated cesterly as a person who is known for the valsery was present to shift the shifted shown the shifted and the shifted shown to shift the shift of the shifted people in the shift of the shifted people in which so many peletion and the beach from their the shutter.

People were no longer fascinated by if The delease cleanatized the risk and the case in human file. That may have helped to make the space program a harde effort, not just a sechnelogical fast with dozens of people sittion of the contract. Orani: Because they rely more on the decireons of others, are the astronguts levis he-Bootsin I bridges the emphasis on individuatern that has dominated American hatwo it is simplified. The great trumphs of crow The pionsers generally moved west in pretty well-proprieted groups, each with its of loaders who date to pursue the unknown and in two races it would be impossible. I am just beginning to learn about this intermor Would Gauguin have painted as he did

against? The community provides a reset art medium that gives the creator something to robe lagarest. The community is part Own: What will be the historical impact of programme We know much less than we think

Cove So E will propurage humbly? Boosty Psyckocaly every discovery of a new dark continent increases human atreceined and mon's been in his own powers

decayary excionation adds new territories of innovance. But man is first more inthen with the new areas of spherence. That pertainly was from in the case of America. he first efforts were to make all the newly. encountered through it with the provious paltoms. As I sent belone even the ninetpenthpertury maps still had the words Great Asserban Desert writer scross the body of North America: Now it look quite some time for people to discover the inecouracy of that description. The greatest significance of the discrevery of America for Western owligation olse! But harrely is a little too theological is

Onen One had the word habra in mind after Bogratin: In his autobiography Benjamin which he was going to perfect in issued for one month. The thirteenth virtue was come Socrates But his attenthought was that if he hurrity to I was salf-carpating. Such 'selfliquidating" ideals are, I believe charactermy assets its objectives and opportunities in

naradvensily in the process of appomplish-Gerse Who I the new year of the planet as

Boosen: its not at all deer that knowing more

about each other makes people love each other more I haven't got any sample anewers I don't like this way of putting the question harriese I helese in concoss I believe the one partanty in history is the unexpected. To be retranded at our installity to prodict is riself a wholesome influence. We rekimpregning ourselves in the rediuments of our prophecy. Our tendency to apply the techniques of mathematical prediction, of extrapolation in science, to manked a expenence is dangerous. Science insists on the importance of quantitative techniques. progress as the increasing application of quantitative methods to a queritative end. and the deriving of quantitudive data from expanence. That yew has also been borrowed by social scientists. But more is that

Cover. Doesn't the space extrenture enlarge horzons and encourage creativity? Boorday The creative consequences cuences of Columbias's voyage are unima-





AUTI* MATTER

in the lated 1977 phopographic Touglas Surain tought a secconducting year of the lastic the characteristic in lastic price of the concording to the conlines's soul from the second from the second from the second from the second from the contrough the second from the second from the second second Consider the post to document the second from the second fr

his United States His goal to document the western concurry lass and document the western document of document of documents and goods with this mythodi quest. Ourren now says ameriged from his does about protography lasel, The more

contact. I have the very local of production and residence in the bear in the service of the time. An ill pages to make the bear and production of the time. An ill pages to make the participation of only contact the time. They are the participation of only contact I would be contact the time to the residence of the pages of the contact the time of the contact the

2 Cuar operation and the time "Curran now all the phrase that would become the site of his time! "Abbonive, 1980; "Full about they gas later! was prunted out on our about the purpose of the property of the purpose of the purpose

UFO QUEST

ramanage or a market by a call carpenters or a general sale if was the four the colonial sale in the colonial sale

Image of our sine.
This discovery as disected Gurania at 1810 ambiforis Living out of Gastle, he is built by those plying in ablas is juried out mail, the found an Alon to Sayton Clarby who

a. Information of grounds of Cabrierre State College in the State Tillinos. No discovered is consisted typing, seasoned onesided by the following for soupper Labor England for Endographical Arcetice connections assured pages 11 in the Sain Bernwerten his. or of the Cabrierre College College College College with Typing-section formes. The house above on the ord Disposit Olic measurem is organized in Personances, Pro Olip Dapp 110, for measurem is organized in Personances.

ii Bull according to Curran is whole sense of identifies wine manufactured and shipped throughout C and the Lindon States. In almost every instance to use the stased above the ground and can be reactly by long sacending reachags or rarrips. Curran to

AUTI MATTER







quiene to UPChi Paddi qua vivad la Indigeneral timo perponsi tri dissi timo perdegi in amesso in apparenti tri soloring stock sissimpeti tri soloring stock shares viveni in tilli sis potentica in tilli sis nado to Curran si mali di in dice. There ad estimati punciosi a piuri ol somi sindi proprietti sindi perpetiti di principi si per si perpetiti di principi.



lending has become a fast passins for sewer boths vertilence. Each year for instance members of the I Age Foundation intelligen. However, we have a sewer they gen hands to creeke a commit trian battary case 113, bottom right case 113, bottom right energy they say, we

(sage 113, bottom right). The energy fines say will summon this UFOs. Constant. Biccosiu (page 1.3 fcp), head of the Casant of Cosmic Consposusness in ST, Jovids. Quebec thas convented a

WEGGOME BYOMERS!

pro in analysistent of overtreathal goods. And they going in 1 is too. East seed for the Outer Dimensial Forces (ODF) in analysis of starthism was will seed in a control happed on his controllage down they happed on his controllage down they happed on he controllage.



AUTI * MATTER









They won't choose Devil's Tower or Disneyland, An earthbound E.T. would prefer the city life

ALEN LANDING

aliens would land and why were doing that, we re-

outnumbered women by at the North American Ar about two to one (yet peo of Defense Command, near our three pricewinners are Leadwille, Colorado, to neuferrois) Eighteen teachers trakes any possible threat to in both grammer and high them Others choice Plugby.

Minnts Linguage Research Contor where scientists are class project, sending in up streetly trying to establish verd, MIT, ESM, Musical of Omeha-and even one in- either study our except me crobes or be incoviated

A few readers chase the

graphic center of the conti-nent, or Devil's Tower, Wyo nent, or Dewis Tower, Wyo-ming, for a close emounter of the indisputable band. Several nuclear facilities wen wolds: Aliemagordo, New Mexico: Hanford, Washing-ton; and Three Mile Island Atlanta was a surprise to waste. It is the home of the

in both grammar and high them Coloris choice Rugby, their home planet. He calls school made the content a North Dakota, the good fits the Big Band theory

PAINTINGS BY TIM WHITE

Nothisias Fasat of June Lake, California holds that the allems will wait Districtin Welcorem in late July or early August, entering their craft in the annual Experimental Aircraft

Association Term. The provistbal despition of Missocinans with the state a vale if they can be made to believe in attention the state of the world should be easy. Exhibiterismatis would find the same the rest of the world of believe in the same the state. The world would be easy Exhibiterismatism to the melbourness of their admission to the melbourness in the same the same the same the same throughout throughout the same throughout throughout the same throughout

would should off the appendion as just another film shot.
What of our 12 parelsits? Most of their onthese seem more present than the Nation sperm bork and New Cheane neghtapols, to better researched than meteor challess and other geographic coldrides in here are our exi-

perts and one waster.

Out test perceited teluses to travel by aft telsiers agazoness? Yet love and better quetion to be the residence of the control of the teluse of the control of the control of the sold better tells and countered artificial on topics renging from space to dissipation of topics renging from space to dissipations on topics.

and the following commontes to design of the common of the

sizes to class Autrous he also decided "27". To as the following his decided on the possible advance for above to corren here. The stage of they are seeing works of at they can send back to their home work, they are do one cannot be decided on the contraction of they are seeing to convers as the institution of the gallery to their contractions of the contraction of the contractions of the contraction of the c

midial field.

- Famed size of station was Pay Particle
- Famed size of station in the Rendering
- Southeast, somewhere between condisoutheast, somewhere between condisoutheast, somewhere between condimitted size of the size of

classert or perfect saming novel, as the

* Cars Losse dan of the related scance decision of the United by California, Sorts Cruz, a boat incent as the Duncer of Still, the Secretic brilliancemental Inselhance in 1900 has Project Coma usual the Natural 1900 has Project Coma usual the Natural Residence in 1900 has Project Coma usual the Natural Residence in 1900 has project to the Natural Residence in 1900 has been seen in 1900 has bee

sognior busined on a site chosen by two chair troused on a site chosen by two chair poreliste—the expents snaple most popular choos. We made the first two back and by agen and ever-walmed agend this suggestion in our context emource ment, but we just couldn't ague with the man.



stern He selected map coordinates J 2— Disneytend. He explanation "Where to land to loan most about ou

humanly in one spot! Daneyland is the choice because there one finds sail alload severying that is spool alload severying that is spool alload in an imperiodurped our faither will officially be self-alload to the self-alload in the world can be better and our belief that the world can be better and our belief that the mortingly will make it so the foliage of this—ways haddenism—and our love of these will be suit as part within grant, of the self-alload in the self-

Philosophy prolesion Edward Regis shaved for outside the normal bounds of the field last year when the edward fundementable. So ence and Allein insulgance, a collection of scholarly articles. Now on a year's loan of absence from Howard University the magnes aliens will land at coordinates 14. Since alieng register the miscountry to the control of the control

stars they'll arrive to explore, not plunder Warring to excape other/on white maintain orig processing to soft hely all and in the second control of the second control of the tomagnatic consistence adjuning the spot of creations beginning.

Nuclear prejuce States Footman National resolution that was rather LEO deptice con respect degrees from the Linvestry of Chango, 19 years of such cases and property of the Chango of the Chango of property of the Chango of property of the Chango of the Chango of the Chango of the American Physical Society American Nuclear Store Home, and membership in the American Physical Society American Nuclear Store Home, and the Nuclear Store Home, and Indiana the Chango of Indiana the Chango of Indiana the Chango of Indiana the Chango of Indiana Chango of Indiana Chango of Indiana coordinates John In New Mesoo. a mod lively footmat dains a mod lively footmat dains

assum-born's trette occurred.

Bruco Mecarities in sisting in physicist—his premiates in loser optics—and a firm be lever in the existing and the sisting of LFO_u. The says "thysis become in the order of LFO_u," he says "thysis become incredibility clear that many of this explanations given to UFO apphraigs don't hold water if have secretaries proceed the tretter of the existing since there to end out the sisting since the procedure of the existing since the tretter of the existing since the relation of the sisting since the sistence that since the sistence that

stating procedure to the second control of the cont

Sands Proving Undust.

**Incohassing align intelligence, if secret
manipulation to set, the shoughts of people
working to create their on Lath. As found
er of the Anticoal involutions of Tochnicosy
Mexima the Coal Tochnicosy
Mexima threaty is created to Tochnicosy
Mexima threaty is one of the most promise
leadows in the felt. He suggests that show
could land any day at the map operations
LOZZ—but not a feltor.

The about impressed of recligant like as Earth a based on what they have been as same hom our powers in mea, and the means hom our powers in mea, and the means have been as the second of the segregated such a felse-train devillation of the second of the second of the series equation to New Brussack. Navsets equations to New Brussack. Navsets equations to New Brussack. Navsets equations to New Brussack. Nav-Sets of the purpose of recovery or properties of the second of the Classon Weller brussack. Navigor Second of the Classon Weller brussack. Which years are a second of the Classon when the class of class

THE MYSTERY CLOUDS ARE COMING!



AS SEEN ON

- The Book that's Sweeping America!
 - 10,000 Copies Sold the First Day!

By Dr. Donald F. Coverbell, TH.D.

Large Const.

The Conspiracy Unveiled... Now, after more than 20 years of research, Dr. Coverdell reveals the STARTUNG TRUTH!

complicity of silency obsert LP by the Nations of the world, as I believe in sime people were told the touth." Limit Chare, arty United Chare, arty

What EVERYONE ON EARTH Needs to KNOW.

Outside U.S. 1-801-627-2000

- Why did they come?
 When are they going to return?

Order your copies today at only \$7.95 plus \$2.00 for postage & handling each.

Plesse send me copies	SINGING (MITTE	ENGINE INSTRUCTIONS		
of THE MYSTERY CLOUDS at \$7.95 plus \$2.00 postage & handling.	NAME			
Entriesed is my Place! for	NORW .			
On call TOLL FREE for ciredit card or C.O.D. orders:	CITY	8005		
1-800-468-2700		take checks psychile to:		

Make checks populse to: THE BOOK SEOKERS, Inc. PO Box 13524 Celando, Ft. 32629

AGAINST BABYLON

But he hard work to do Swenging the DC-3 back around toward the west, he swooped down as down as he dared to the edge of lines. Behind him a great crimson cloud spread out a skury of ammonium suitage and water thick as prant with a red dye moved into it so they could tell which away had been sorroyed. The reservoirt olung in ofsize to Emptying his four five-frundred-gallon tenks quickly, he headed back to Van Nuys. below was fittening through every place of the old plane it was not quite noon. His had been up all right. At the airport they had politice marty sandwiches, toose burrios While he again there was no arrower at home incine at the studio. He phoned the gallery, and the

"If you have how he?" Committee and, hell her I'm flying the control dute of Van Nays on the Chattworth has and I'll be her as soon as things count down a little. But her i miss lace, loo. And but her has if I have not an If I I (see it is not have to her thought her?" Access to easy in the rest had to seek a cored gathered extended configured particular billies of Committee flow. Seek and the configured flow stages There has been to captly of the company to the Seek Colores of Checks Type aget the seek colores of Checks Type aget the secknotic described for Fertile Riccio and Defect the semantic Described the captific that the figure that to be a seek of the committee of the colores period of all seeks of the colores period of all seeks places proposed to the colores period of the committee places and the colores period of the committee places and the colores seeks seeking the colores seeks se

called in some sort of communor. There were very service to the control way carely but Commonde service with you were falsen than the lamp control way were purples and lambsery bottom, with sons of any more and lambsery bottom, with sons of any section of the property of sentence of the property of th

being heated infolline air aird popped link or collected specimen into a native, grateria sack. Teams of the grant creatures routhed the town for metally air four. The emoughted into aird that definistly been confirmed that between twenty and thinly human hostogen were captured before they returned to this spacecraft. Meanwhat, the highling activities describely cushinus univer Sariak Amil too describely cushinus universities.

shap and—"
Carmchael shock his head Los Angeles
he thought. The kind of people that live here
they walk right up and list he E.Tis gooble.

them like filled. Maybe the first is just a movie and serrything with the just a movie and serrything with the day by the last rook And than he semantished that Condy was the limit of people who would with night up to one of these E.T.s. Candy was the kind of people who leved in look Andreas, he told himself.

except that Cindy was different. Somenow he want outside. The DC-3 was lookable and leady. In the forty-few minutes since the had left the few into the blaze scened to have screed necessary toward the south. This time the line boar had him lay down the retardant from the DS 20th Aproxim tereway referriding or line.

Inerboss feet him key down the retarkant from the Dis State Avenue Revery Preschange to the northeset comes of Pertial Rando. When he resumed to the argord, intending to old Candy legals, a men in military fur form stopped him as he creased the feet and sed in the William Carmonhael, Louriel Cempor?"

"Theris world."

"Two got some troublescene news for you Lets go made "Suppose you tell me here. cksy?" The officer looked at him strangely "15 about your wife." he seed "Cyrifine Carm-

shoot your wife, he said Cyrene Camchad? That s your wife in anno? "Come on, Carmichael said "She's one of the hostages, sir"

His breigh went from him as though he had been kicked.
"Where did if happen?" he demended. "How did they gut her?
The difficer gove him a strange, strained.

smile. If weather-bropping-center lot, Porter Banch, Mayba you saw some of it on TV. Carrechale nodded That get airliked of her feet by first immense obside torque, weet though the six popped into this great pouch. And Cindy—?

"You saw the past where the centering in the point of the past of the point of the past of the pas

were moving allowed. And then sublished they were gradeling people, and reveryone was married that they were a surrough that their they were they subject the subject to th

Then they scooped her up?"
I have to tell you that they did
I see. " Commobiled said storely

"One thing all the witnesses agreed, she didn't panic, she don't screen. She was very brave when those monitors grabbed his



something that sign is holding you in midw is servething I don't understand, but I have to assure you that those who server-He turned away He stut his eyes for a

morrent and took deep, heavy guils of the Of course she had gone right out to the landing site. Ot course if there was among oot to them and see them with her own eyes and perhaps try to talk to them and establish She wouldn't have been afraid of them. She

had never seemed to be alread of anything no at them right up to the moment they But it towfood him to their this she was in free greet

"Shes on the slep?" he asked. "The one dist we have right up back hure?

Have there been any messages from the gent davige that information? "Is there any information?"

Tim sorry I'm not at liberty to-I reluse to believe: Carrichad use: "hos all is being done to make contact with are under way. That much I can tell you I con tall you that Washington is revolved that browned that, at the propert point at brow-

A led who looked like on Englis Scour conve runno up "Your plane's all loaded and reserv to go. Miss? Yeah," Carricted used The fire, the fucking log! He had almost mensoond to for-

"Mayby hell on hour I have to do a satur-

to that apacesho and get me through the cordon, so I can talk to those critters muself If she's on that ship I mean to get her off it I clarit see how it would be possible-Well by to see "Corricted and "Times.

you right here in half an hour When he was aidf he noticed right away that the led was spreading. The world was pushing the flames down toward the erdon of Chassworth Already some glowing onders had blown across the city limits, and Carmidsel new houses also to his left. maybe half a dozen of them. There would be more, he knew. In this lighting you come to develop an odd sense of which way the struggle is going, whether you re garning on the blaze or it's gaining on you and that sense told hen now that the wast effort that was under way was taken; that the for was

till on the upcurve, that whole resorted now and the Exturence was astrument in by the note: The line bosts helicopter was Carmichael called in for orders and was sent over to the southwest rade, class by the outermost street of houses. Fire foreset with ing out of people's gardens down there. The bissing. The neighborhood doos had formed

Swooping down to treetop level. Carm cheef let go with a red gush of characells ble with the staft. The shovelers looked up. and waved at him, and he diopod his winds no farther to the west too, he saw, loacing slong the Surce Surana footbills until he ing isolated in its circle of blackgroad swith vision displayed in concentric rings beginring half a mile or so from the sho "He stared intently at the alian wassel so

though he might be able to see through its He magined heresting statistic gradus over the aliens used mesest of tables, sixtno at a table with seven or eight of the hupe then asking them to explain their world to

they were not torturing her or diesecting her The only fring he foored was that they

terits below palvaing around to pont at him to the line zone. This is prohibited air space.

dropped down oven lower so that he could Trose particles he wanted has to know that

She was always looking for the strange the mysterious, the unlattiler he thought



Create a niche in your life for one perfect thing

Tanqueray Gin. singular experience The Rio Grande
Cutthroat Trout
are biting
at Forbes
Magazine's
400-square-mile
Trinchera Ranch
in the Colorado
Rockies-and
try you're invited to
try your luck.



n, of the moist sporting fish in the U.S., the Rio Garad. Continual Treasurables in the Continual Treasurables is Rioden and Rioden outs in all natives and Rioden outs in all natives and an action of the Continual and annual single fished and annual single fished in annual single fished in the Continual and annual single fished annual single f

Forbes Trinchera Ranch You may have lived on earth before!



New places, or people you pass in the street, may near addly familiar to you. Have you known there in a precesses left?

You wonder why you are living no curth today and far whit purpose you are here. Certain secrets of the and mental development cannot be divulged induscriminately. If you sincowsly feel the need for instruction in the use of your higher creative endowment, you have resched the stage where the Rosicourius tankings with set president white tankings with the of positional value.

to you in your own materially endowed powers to achieve results you now think anattainable in your present state of untrained and undirected endeavor. Sample Rosicracias sechiosecondo medicant men and

Devoted to the attainment of the true Brotherhood of Mankind, the Roscrucians are a nonreligious, nonmalitud, nonrealit organization.

FREE BOOK You are invited, through not unged, to send for the free 33 page back.—The Mastery, of Life, which has been written to give residers an outline of

this processmercial festernity.

This invitation is not to be taken as an assurance that every applicant receiving THE MASTERY OF LIFE will be approved for mumbership.

The ROSICRUCIANS
(AMORC)
San Jose, California 96191

The second of the control of the con

laund that everyone at the autor's soon because by the size that his even we ore the hossios. The officer short Cerminhan asked to were the horn Cerminhan asked to were the horn was good in the end very summed by that He bought as part of the size of the size of the size street. The size of the size of the size street to get the size of the size of the laund that the size of the size of the raphy was in charge size the size of the laund that the size of the size of the laund that the size of the size of the laund that the size of the size of the laund had the size of the size of the laund had the size of the size of the laund had the size of the laund had the size of the laund had laund had laund had laund had laund had laund l

psech coppused. Then the head dispetcher come down to mean term on the feels looking almost about ready to busit with compassion, and in finmenal shows bold Commontreel that is Awalibbo all right if the called it quits for the city and went thome to await it who tever might happen But Commontain ghook more (1" won't) get her back by setting in the living order. The sead "And the fee for this group to be out by

said other. It has been seen as the property of the presence o

ń

block with occr shading to grey to seal and weed. The air was count to five and flighten weed to be a count to five and the seal of the se

The profit issue was resty he such it such a concept and point in the next disastant profit on the calastast of Chromotin Hing was belongly lower in order to poll tack of the the calastast of Chromotin Hing was the belongly belong the cale to poll tack of the term of the cale to the cale to the cale to the first in our fire denth states and close the first in our first denth states and close the cale to the cale to the cale to lower that the cale to lower than the cale to lower than the cale to lower than the cale to the cale the cale to the cale to the cale the ca

we or six hours and grab some steep, and hen you ber call my back to— No That soil it " "That sell wher?" "When I canno out here to tell you, Mike

hay ve released some of the hostages."
"Cindy?"
"I think so. Thoreis on Air Force can here
take you to Sylman. That's where they we
of the command cannot set up. They seed

you can talk with your wife.
So she sites "Carmichael said. Oh Je
ous shed hee!
"You go on along Mine We'll look after the
tine without you for a whee. disay?
The Air Force can looked like a general's.

The Ar Force out looked was a given a time to grant out the second of the second force of the second of the second property and the second of the second property and the second of the second trace. They said herder several, seed they looked as weary as Clemechael felt. How we wise the second of them seed We understand that she fears? Delete the second of the second of the second the second of the second of the second Provided of the second of the second Provided of the second of the second Provided Provided of the second Provided Pr

Within the air-condorned limb them was only plu the fairless wint to lamble but the sky to the cost was terrifying, with stands of red bursting. We mateors through the blackness. Calmichael asked the Air Force men about the total he got was a clipped. It looks pretty.

bod, so understand: Somewhere storgster as to the part of the part

to book his eyes, par mind outsomer in the ball trained colonial greeted him in his ball trained the free eyes of the move stalls and set. This may be the most difficult polycure even had to hardle. Mr Cermichael Carmichael socialed Everybody was holywood in the damred barn he hought "filely tool me hoursages well being bed." I be set. "When'the yellor!"

The column portion to additioner accept.

Bane going to let you talk to her right now.

"Are you saying I don't get to see her?

"Not immediately."

Was glowing. There was a calm

was glowing. There was a cast joy in her eyes verging on ecstasy. He had seen her look like that

before, but this was different She had seen the beatific vision, this time ?

"Why not? is she all not?" As far as we know yes."

As far as we know yet?
You mean the heart been sakeaso?
They told me the heart been sakeaso?
They told me the heart go as a far the calant. Two popules according to the alone.

your wife. Mr Carmichael She is unli leave the ship It was like hitting an air pockst.

"She digris to have volunteered to make the goursey to the home would of the allens. She says she's going to some as our ambaseador, our special emeasing Mr Clarmchael, does your with have any history of merial imbalance?"

Glang, Camchael asid. "She's very spin Beane ee."

"You are passer that she showed no delplay offeer when the alens second her in the obscorpt clienter modern this morring?" I know yet. That doesn't mean she's casy "Sets unusual the has unusual does that she and once, "Nether am I incomsally." He out, the hards to have the or a moent and pressed his tingentips lightly painst his eyes "All aght," he said "Let me talk to har

Do you think you can persuade her to leave that step?

To suit all religiong to try.

The suit all religiong to try.

The suit all religiong to try.

The suit are not yournell sympathetic to what she doing an you? the colonel asked Carmschael looked up. Yes I am oyn-pashetic Steps on retailigant woman doing.

Curricular bolled up "Mis I am sympathics: Sets an intelligent volume of one sometime, that she funits is imported land chang of the one time will. Why the hell shouldn't be sympathica? But I'mpore job in your set has not of it, you be II love his? I want her Somebody also can be the gotcharred archisosaboth to Bedgiouse. Left me talk to her will you? "The moreone methods and the bit before "The moreone methods and the bit before."

a disturbing, rendom way than Cormetrical country girmbas of thodowy celveliks infocution make convenions creaming and recovering an peoples singles, and then for an instart one of the alterns specied on the screen. Yellow potent wave looked complacently back at her Corminated life infogatines wide awate now. The alterns too waveful and Cordy carries.

nto view. The manners his sew her. Centrichies inview that he had lost tex. Her face was glowing. These was a calmjoy in her eyes vieiging on rosteey he had seen her look something like that on many occessing but the was different. This was beyond anything that had internel below She had seen the bentile view. This time

"Helio Mike "Can you tell me whells been happening in there Cindy?" It is increable. The contact, the continu

Sere the invosibility any one could make operate with the space person of would be Cody, She had a certain wind of magic about their their gift oliving able to operate door the wald. "They speed mand to simily do, shawe no bernes at all They's oother in peace to get to show us to princh farmor, with us to well come us not the contribution ton of worlds. He may be for the contribution the magazined his top. "What I have the the magazined his top." What I have the

done to you, Cindy? Here they brainvasited you or something?
Not No nothing like that! They haven alone a thing to me Mike! Wrive ust talked.

They we showed me how to louch me med to there. That and bearwaining in other is, me Cerdy, in other bullook at though im being harmed? They sent dan getous Belever me.

They we set his to half the city with the

They we set like to half the city with their advanct hists, you know.
That greeves them It was an accident. They den't undestand how dry the hills were. If they had some way of exclinguishing the flames they would but the first are bot tag even for them. They adv. us to forget them They want even provide them. They were even provided to know how the

said, very gardy, "Wee, will you come onboard? I want you to expensions them as I in nunerations from."

"Of course you can't Anyona can't has just open your mind they bouch you and—
Thinky I don't want to Come suit of the and come home. Only Place Place It been tries also and wow — weet to huy you I want to hold you.

You can haid ma as light as you like.

you I want to floid you.

You can hold me as light as you like.
They II all you choosed. We can go to their world logister. You know that I'm going to go with them to thair world, don't you?

You aren't his really.
She nodded gravely She soomed ten bly school. They I be laveling in a few weeks as soon as they've had a chance to exchange gifts with Earth five soon regists of their planet—like moves only they do swith.

that minds.—Mike you can't imagine how bouthful it is! How eager they are to have mys contal! Sweat rolled out of his hair into his eyes making I mit blist, but he did not down work I away for loar she would think he was crying.

And I den't want you to go either. Bho was silent for is time. Then who emised delicately and seld. I know Millia. He closched his fasts and let go and clerched them again. I con't go there. "No You can't Lundensel

nimed to be in your Valley, in your own real in world, not nutning off to some fer star? I won't by to cook your But yours going to go anyway? Its up alsked and if was not really a custation

"fee"
"I'm sorry But not really"
"Do you love me? he said, and regretted

To you lose me? he said and registed saying it at once. She smeed sadly "fou knowl do And you knowl con't watch to know you Bullonce they touched my mind with them, orcal I saw what

Aird of beings they are—do you know what I mean? I don't have to explain, do ? You always know what I mean. "Cardy— "On Male, I do love you so much that I have you have, And I wish world."

And I live you table And I with you'd come out of hat goddamned ship " "has won't ask that Because you love me nght? Just as I won't ask you again to come onboard with mis because I really tive you Do you undorstand that Mike?"

He wanted to much into the sorten and grab hat "I understand yes" he made herself say "I love you. Alive "

"I love you Miles"
"I tow you Miles"
"I tow you Clindy
They soll me the round-inp takes lottymay for our years, but it will any seemble a lew education of the Miles" Good-tope Miles' Good bidges Maje! "She base leased to her he case his leased as ongo on her fingers. Else

see had most when the facility Dought is domented by the control of the control of the congrament of the control of the control of the congrament of the control of the control of the congrament of the control of the control of the conprol which has a facility of the control of the conprol which has a facility of the control of t

she's some kind of rs/I
"Of opurse not Mr Carmicheel
"But she's not going to leave that spec ship "but heard his title's staying also going back with them to wherever the t

they came from 1 cent on any string about man thus extent don't you? Nothing 1 could do afour of pang about their ship and disagong har of physically, would got her said there And I would I ever do that "Returnly not in any case, you undostand that it would be impossible for us to

of assuring to retrove fee.

That a sill egift. Comment and of the sill egift egift of the sill egift of the sill egift egift of the sill egift egift egift of the sill egift egift

seas warred him to move out of the less and he each that he would. As the circled a halloh opined in the spaceshop stock and one of the alterna powers belong grants even from Cerm cheeks assume in the hope probabilities alternated to be sinting the stocky as Caseschall broogst vogoly of their down the and dropping his whole load of rock deates on the ceasure, dissembly in aguity deates on the ceasure, dissembly in aguity deates on the ceasure, dissembly in aguity.

These are offensive resolves, and these are defensive resolves



TOLL FREE 0900 431-9003 Please are noter randore if you profes made

cretis, including the belond, standard stand for water record to find in The many confusion environment and street beauti percents you from stoying and move a larger than you had starmed. The crosse is "assumi glass" it will never works.

thed our absolutely FEEE, with our complements. Tale Note the quantity orders (100-) with your owner. 121 Townsend Street San Franci

thing But thefs what I'm like, he thought Just an ordinary, uply vergeful Earthman. And theirs why lim not poend to go to that other planet and that's why sho is He swung around past the spaceship and

tenaded streight across Granada Hills and naily one of the depatchers came out and called up to him. "Mike are you okey?" "Yesh [mfme"

"How come you came back without droppeng your load? Carmichael peered at his paupus "Did I rin that? Lourses I did that didn't

"I forgot to dump, I guess No I didn't for net I set didn't had like doing it.

'Mike, come on out of that plans "I dign't feel the doing it." Carmchael said save arryway." He control deserted him at spected if, but he didn't have to kee it. He tolt somehow that he had leet his war with Los Angelos es well. Tuck is "tip seed "Les it burn. This creay ony I always hated it I deserves what it gets. The only reason is stayed here was for her. She was all that

The despetcher gaped at him in remuzemere "Men-Convertiged mount his head slowly from

eade to legle as though trying to shake a monatrous headache from it. Then he frowned "No that's wrong," he said "You've You have to save what you can Leten, Tire fm going to fly one last load today, you hoar And then I'll go home and gut some since Glory? Chay? He had the plans in motion A little Casson spoter plane moved desperately out of he way, and from he was doft The stey was triack and red The fire was completely uncontained now and maybe he theught. You had to save what you could He manged and weet forward, flying painty

There east the Lord Rehold I will raise up against Babylon, and espenal from that divel a destroying wind And will send unto Babylon favorers, that steel fan her, and shell empty har land. Fo is she day of trouble flery shelf be occars?

wating hills to the north

her round about January St 1/200

WHOLE or 1/2 BRAIN Experience using your full brate and mind for increased



memory, concurrentum, presing maministation, 4 for dructions, learning frame, accelerated reading (90% m c.fi. returded). Tapes and seminors.
John-Dreid, Ph.D., founder of Whole-Brain Learning.
Any. has discovered a maple bruidfrough in sublimbut topus - how to make them work taxes are only two levels These tapes am 7 feweled or nght brein - Bypessing your resistance to change Tiey

able on any stems, these tapes 'speak' descrip to pre-MEGA SCIBLIMINAL TAPES FLOWING SELECTION SHAIN MIND EXPANSION Bostownips Sections But
 Sections
 Many 5 Cover

NATL 1-500-4-DR-JOHN FREE CATALOGUE CAL 1-500-624-9770 OR SAVIS TIME, USE TOLL PRISE TO PLACE YOUR ORDER NOW

A DAY TOTAL IMMERSION INTENSIVE: INTENTION, Sub-contact of the benefits of Subject 24 hours in day from while disrepting facing to 28 students. State of the extendingly in official homeograph additional probability. Published contact and additional probability of Man NC Art Subjects in contact additional state of the subject of the extending of the Subject of Subjects in contact the subject of Subjects in the Subject of Subjects of Subjects in Subjects Sex DisgraJuly 3 7, 1909 See President, Spott 39 22, 1985 Nath Cardine Spender 5.10 Year

Certification 12 day residential Aug 6-17, 1995, 53 200 Confessor Checks passible to and may to John-David Learning Institute 2792 Roosevelt St. (Main Campus), Carbinet, CA 92006 (625) 434-3572

NTERVIEW

grable now. Every advance in knowledge has its self-convenient or self-flipidening consequence. Every advances should be preserved to the convenience of consistence of consequence on whether the contribided open and power as the most promised thing in the foreignous the most promised the configuration of convenience of consequence of

Greek Would you personally account in suson the sistance. Because it is the an investment of done from a Booten is the an investment of counge to accidate of the country of provide if it and the sis book down from a processor of the country of the country of the sistency for proposal fluid way and Winy act? Creat they down from a country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat they down from the Country of the act Creat the Creat they down the country of the act of the Creat they down the country of the act of the Creat they down the country of the act of the Creat they down the country of the country of the act of the country of the country of the country of the act of the country of the country of the country of the act of the country of the country of the country of the act of the country of the country of the country of the act of the country of the country of the country of the act of the country of the country of the country of the act of the country of the country of the country of the country of the act of the country of the country of the country of the country of the act of the country of the country of the country of the country of the act of the country of the country of the country of the country of the act of the country of the cou

and I say May see? I there that a better i peation. Why not? I don't have a certain type of per or who is a document or a deepor. The not who is a document or a deepor. The notice and impredictable read of the type or people who would be decreased. The couldn't let if a would be a responsible with Harryo (English physions) who demonshired the function of the heart and on-children of the bloody or a hard-measured children of the bloody or a hard-measured to the country of the second or the country of the children of the bloody or a hard-measured to the country of the country of the children of the bloody or a hard-measured to the country of the country of the children of the bloody or a hard-measured to the country of the country of the children of the bloody or a hard-measured to the country of the children of the bloody or a hard-measured to the country of the children of of children of the children of children of

cultion of the blood) or a half-manacular Paracolous (Swiss physicism and alchemist) who would add scripting. Christ, Many activities fall off after accomplishing grost things, but you are still going strong after five docades of hard work. How

do you explain it? Booratie, Well, Typing to matich an accomplaintment is a problem of success for everytody. Yell Coeffic desirede. Why is it had what is man, accomplished one remissiosite what is man, accomplished one remissional and, the work companies to prevent this flow accomplishing a worker. Placete even turgery.

them—but they are also energy.

But one obest (discern) prises none one one antified to feel virtuous, for wolving at what one wants to do any more then for falling in low. I you've budy enough it low your west, you straid you be presed for doing what you onthinke doing.

The problem in writing a having some-

the problem in witing a having somehing to say where block is bascally timeor's block. If you haven't anything to say of outnering gong to be harder to write if Ones! What's the difference between a discoverier and a creator? Booster. The Descrivers was about the Booster. The Descrivers was about the

boosain. The Discoveres was about the search for what is out this everything out-side of humanity's consciousness—the work, society the contents—the work, society the contents, and so on the Cestors is what we make of what's out thee. It's all shoulf the artis. The Discoverant stressed that one of the great postacles to train progress was not syntamic but the Asson of knowledge the counterpart in The Asson of knowledge the counterpart.

Creators to the mystery of what's out there for the discoverer is the mystery of what one has useded. And the creator never really know what he or sha has created. Own: his way ou had any supprises so far?

Date: making our des thy subproces so fair? Bootsian Chair unspecked their (Inc.) that the very side of creation is round as Chair side care semipation of the world. The great configuration with a side of both side side place place in care configuration and the side of configuration of the side of side side side of side side of side of side of side of side side side

the nextry of celebra is paint the heavy of furnaria knowing nearones of or celebra powers. But we can be asset of our owners of the powers in the second of the powers of the powers of the powers of the second of

is you really con't know. Green What is the last centencies your type water his manning? Boonstin, "And the last signs of many sware raise of himself names the most enduring

ness of himself remain the most criduring in this chaptar cased "The Oties of the Dead." I'm dealing with se bagarrangs of architecture and with merkinds struggle against his own relations to try, or even

Maris that assetted with his efforts to overcome or dany the transferor of his We for resistant his egistant and his works are permishent. The pyramids the Mayors temples or Stonaharige would be a very good extensive of that

These very list offices are incentionally we now furn for undestanding, whether about the Egyptiens, the early Control Amount, or Placothic people in Heart dence, the control of the Cont

Boolshiff derift befinnen in her decisier of his men instruction on concernation on nonecostation, no more gene on concernation of the control between the control between the second of second of the control between the control between the second of second of the control between the con

Receivity while from world free fetz, procedure from the water present the fetz procedure from the water present the fetz procedure from the fetz procedure from the fetz procedure free free fetz fet

A taste of Italian night life



to enhance your after dinner o

with three coffee beam

So there is a kind of reciprocal relation beleven what humans thy and what they related what they think they need and so on life red a simple linear movement along the path of biological or even spathual needs. Orast is a sacrilege to suggest this war might workbully have a pill to make people more

Control of the Chesters will emphasize that control of our what I call the first every that I, as reactions start from the unimary for the size received the unimary for the u

ties to the ultiproductable Trail encoded a good a convolution control to the good a convolution to the control good a convolution and the productable of population of colory colory progress and flagment are flown society granted Court. Elizably the size and to work and read that are the concept and the colory granted Court. Elizably the size of the improductable Efficient below claims of the improductable Efficient below claims to the control of the control to the colory of the colory to the colory of the colory to the colory of the colory to the colory of the color to the colory of the color to the color

persient unities when you write a letter or a

manuacy. Authorities could without allow mouthing legif or parts accorded for repairs. Certainly bookdoasting and other electrons meet have classed in important sold to grounding the sale of the unbolded soldness. With protect books you have a condessed for with protect books you have a or sourced that with solds and tilledsom you present vices which is bestimp or without a classes. We shouldn't you saly be too begin all of the existings of a few inventors.

Cetair We shought you say to too separation of of the incurrings of a new inventorius rates we can terminodetely know what these inventoria are Beomain. I agree We never know the uses of it or the consequences of it. What some of it or the consequences of it.

Beanster I agree We never know the uses of it or the consequences of it What some people that said that Harry Ford was going to tegition at the horses, he replied that if everyone had an automobile these wouldn't be any problems.

marisque to grade worked an aborton could Sheleopeen have integrated Kos Me Kope? And the creators of Kos Me Kath allo could not have known what they had ore allot because thereil be written symbotic by product of it. Chest: Our quest for knowledge has led us with a normals officialised with the unfollow-

into enormous difficulties with the unfortunate discovery of the dome borth in their any solution to that disemme? Boosetin Invasid be hard to imagine any of marks invarious that could not have "Lifferhands" by products. What about first? Feer things armone obscurutes than the Maybe that was unfortunate. Maybe all perkalation, was a motive mistoring principles of perkalation.

suggested. But we're not at all fee to ask that question. Deter, But don't we have to advance in line with what we find out about resure so that the power we gain to destroy clean't outrun.

the power we gain to destroy obserf I currun our wedger? Boenstin Most efforts to ovelze humans have been based on an artogenical an assumption that man knows more than he really down

bothed may know may be a feet to the first the control of the cont

the limits of prudence and observer to tender from as underhalping and as helfall aspossible. When I was at the Nasonal Masourn of Hebroy and Tasthrollogy one of our first exhibits was-entitied. Tool the Head Way. I nonan essay by Taylor dictionary. This motio is perhaps a name for civilization—I noting more complicated ways to disample tables.

as somey larger enace. The point is many not then not be disborate his technology. He was pursue the peth that he seek but his sever followed.

Canar You've written that technology's suppose take opening to become more late everything to become more late everything to be on the purpose. The art think the pulses of the future of the future of the future of the future.

ellie Do you think the outbre of the future will be more and more hamogeneous, the same warry whate?

Beenstein New technologies land to exist definitions of place and time. When you see someting because on tidewpon, you can't

someting broadcast on storyons, you cent in a lange of the is larged of this, someone has to fail you. The Cristotic points out that the lange of the lange and lange and lange-ledge grow on the boundary between something and someting other when you desired the electronic bits electronic to serve mees, you distributed to the common sometimes of the common sometimes of the common sometimes of the lange of the arribation has an advantage down you?

Booster, I prototely wouldn't have writen most of my backs of I had been poperly varied as a historan. But it de'th lead with the russ were and I didn't know whose the tegranay was. And the highway usually becomes a nut for any profession. So I had to do what moreated me. Green level if another listadings to come in the comes and the control of the come.

From the cutside?*
Bloombis An but my notion is that them is no outside. There is only an inside and it is no reversible. You has peaking like a profession of them is not outside. The man in the profession outside. I have nower last twee treepasting or anybody is terminary by writing history professions outside afformation of the professions outside afford to consider the control of the professions outside afford to control outside the control outside the control of the control outside the control out



MOUNTAIN WARRIOR

EXPLORATIONS

By Jane Goodall

vergetation, sine stands near a huge accepts, even welcomes ther proximity Her farm exactes love for this sermal suit one of a group of goodles for whom her heart remombered, for it was a teacheson for the country of Rwands It was love and sespect by them that least her there most of har watert strong rettes, and of the very from that loci to her unknow death. Law met Dian in 1966, when she came field methods. She was improvided or

impatient to start work with her own chosen ape the gorifa After this most two week which we exchanged a few close than hasprovided in different directions who to lecture in the States and I to return to

well I doubt that many people did. She though was her courage. Her retuse to days willy to five stir by native occurrent an angry salerback have become legand ary his courses want boyond the Robel Hande, a professor with whom both Den and me recently that Digit had a terray of height and worked in the mountains, crossing steep content and distributing precipitous diffs.

fighting her paralyzing tear so sixe could I was the perugagance this determination

to stay in the field despite all difficulties casporrioris, and clangers that lod. I believe science She compiled careful case histoner spanned nearly 20 years. Such mateulous assessmin is regarded in patier to understand the unique personality and ideeynoseass of I'm We have a clearer sense of how gontlas interact with neighboring social groups why and when occasional brusil infent-

Dian also shared her work with many students. But her standards for field research her relationships with students soured when they toind to meet her expectations. She for her to asave her recearch. This is

David Mineral, the illustrator who workput with drug yourself to exhaustion and drive others unithe same manner. The conities deserve as much -oh so much more During our last year, Days and I dequayed problems that also with students in the Linversity in New York, putting the England truches on her book. As we welked through Cornell's Sapaucker Woods on a cold but surrry spring morning, we allogged of Rwancia, r. was a link to resture Dianrespect "It helps to keep me same" who seed furths had almost run out. Unless her book had to return. There is no future for me in the country' she said I sensed a dissperate research in their school. I have to get book

Added to that feeling of desperation was



to the confess

the investigate the even in the districtum. Research the event of the hardenged by it health in the high although of the carrier beach in the high although of the carrier bear subtangly the subtangly thas subtangly the subtangly the subtangly the subtangly the subtan

worth 148". Annexis were more free juid component. Annexis were more free juid component. In Darry were with one seatured to legislated for an exist when were filtered that are then were filtered and could be found to the seatured to the argonized for the seatured to the argonized for the seatured to the foundation of the seatured to the seatured for the seatur

very prodult.

Fight for evening than attacked the posichsing broken in ter own other highly unonthe position in the own other highly unonthe position in the state of the contemprate of the state of the contemprate objects of the state of the contemprate objects of the state of the contemprate objects of the state of the contemprate of the state of the state of the contemprate of the state of the state of the state
unstate to believe the content of the state
unstate to believe the other state of the state
unstate to believe the other state of the state
unstate to believe the other state of the state
unstate to believe the state of the state
unstate to believe the state of the state
units of the state of the state of the state
units of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the state of the state

of the state of the state of the sta

Supplied to the control of the contr

serves to make her pause our own DO

BLOOD

Suddenly it backs like a dam said the black waters pound through mundating the soon Fulse frees cometiting each area (it was not be color of the aural the sudden feat) but be dight under stand what was happening See feet has open rappic. She could feet for

"What's going on?" he said. The perhos of the inquiry made her went to liking?" Updates the water significe witting from

the inquiry made for wirt to leagh.

Updates the water jug in the writing foom shatpared.

Fuller list har go and rain foward the door.

It have no crafte and shake even as he as-

heliware bearing on the other side. The han delturned and turned and turned. The paint bistered. The key glowed and hot Fultar looked back at the doctor, who was

or steel.
Somewhere to the east his souligored the wounded highway on its souls to the inter-

May fibration from the seal above. Above had been for the months of the most o

habitat? If Dain had never gone to work in Province here would be tell leaver mountain gordals than there are body. Without has protection it is quite possible that the least of them would zero been related long age their leaver would zero been related long age their leaver.

> they were not so temble Verbe screamed And lought and poured obscenities out at his altackers. They took

to any piec or proyer, and worked on him with all the enhancem of executes throad into selecte for localizing. Many lettered as his source weathed with its composition, and other books against the execpt of hear in healthcale. Somethow, who left, other must get up to the local its depth execute for the property of the local its defend execute for the property and the property of the property and the property of the property of the property and the property of the property of the property and the property of the property

Somehaw, and felt, side mixing you up to the inmore. It didn't marker what was beyond the door or on the stains—the needed har and that was anough. Since stand up from the head, fasting like the shake har of the Gorgan Neduce. Prolify awarn—there was

Gospan Medicas Residy swarn—there was scarcely allook to be seen beneath let. The boards of the house were global wood and beyond them a seething dark signol and youned at her She looked to the door, lool ing all the time a lethwey that was so had to light off.

Clearly they don't went her up, there

Major, site in ought it by over four mis a title. The steep which reproducts why disward help offered by introduce her unless when help offered hearty create operand find token the world was now a threat to than? The balleted door was one Beyond it, the malely of the focus had aucountable organisely to the howing disease of the high way the steep entitle out of more than he way her less tall bounded and find high heavy her less tall bounded and find high heavy her less tall bounded and find in which he way her less was finded to the he high this above her was finded to the, the high the stage of the major than the stage of the stage and the stage of the stage of the stage to the stage of the stage to the stage of the stage to the stage the stage of the stage to the stage the stage of the stage the stag

completely to the howing drake of the high way the thegetheraph concenteding in the way her less till bother did did not haugh her less till bother did did not haugh her legs could no larger son! The sky allower less and sendy the dead pressed one less yet for less and sendy the dead pressed one less yet for less supply the property property of the less thank the property of the less thank the property of the less thank the till the less thank the The linear way gone. Now who said nothing, just griddler less and nationard conting, just griddler less and nationard nothing, just griddler less and nationard nothing, just griddler less and nationard conting just griddler less and nationard to the property of the less and nationard property and nationard property and nationard property and the sent and nationard the property of the less thank the property of the less thank the property of the less thank the property of the property of the less thank the

indexing just grided her teeth and national har year agent the highway looking hir kall streamd to first the restity of the stans that streamd to first the restity of the stans that stream which the stream that the stream that the product them and a how were to be the cowed. She couldn't teet if by yourse loog the at her observes or accurating a warring a how to sith had get Fest step. Second else. Third step.

Though she was born at horn every ado she was writing against the crowd. After she could see through the door of the root to where her title fat was sprewfed surmurated by the affactions.

The scene assembled a race his scenamed in langar but his syste wise wild with tends and pen. At least his was still alive. The natural resilience of the young med half as object the specialse that had oppored in both of him. Suddeniy his head yelved around, and he

containing its procupation of the first this electronic has a state of the containing the contai

petu Timisony limisony He tookad away be gaze wrenched from hars



the deer of the writing room open.

Only the wounds were in common be-

One moment he seemed to flash into to

two or three yards of possessed air steps top of the strars, her feet stiff treading or as regod from Their eyes met again and an elegated look common to the two and the

> Plane by plane the room began to reco others with the classor of children. The splace leave certy that signs and ther tal

mouths. They were lost along the highway

The dead had no voces now nor ever

She buched him lightly on the face. The

two the smoons becamed body of Rea Fuller

Unitary in the derkening room Mary

There was no sound now but the whire of hushed and requisi. No nimbus of light aumunded him Every series was in place She touched him now as she had nove

It was proof beyond any doubt, but of

it was the reveletors of the bayond fresh ready the blood was drying and the myhad wounds healing. He was healthy and strong. physical darrage 199 beauty was gone for And lifter a time when the words on he

She would read them all report from all every last nylebie that gistered and seeped He was a Book of Blood, and the his tole As darkness fell she left off her vigil and led him maked into the bolony restr DO

From Chie Barker's Books of Blood Walerte 1

secondly rate for items is measured with the protrain through reasonable for items approach of the reasonable for a supprise of the reasonable for the supprise of the reasonable for supprise of the reasonable for the reasonable for the popular supprise for the reasonable for The popular supprise for the reasonable for the reasonable for the reasonable for popular supprise for the reasonable for the re

beauty a two early of the substitution of the planting to previous occurs.

If the nutborns having sub begun show possible that the planting the substitution of services and training the substitution of services are substitution of services and the substitution of services and the substitution of services are substitution of services and the substitution of services are substitution of substitution of services are substitution of services and services are substitution of services are substitution of services and services are substitution of services and services are substitution of services are substitution of services and services are substitution of services and services are substitution of services are substitution of services are substitution of services and services are substitution of services are substitu

protection occasion have seredly been inplicated. He sadd: "That disamass when you remember that the entire field distrit own lead for years ago: According to the American Panalysis Acportation (, in Linguistical) equipment with a country more than 30 others ayout in med-

lost wages. Lifetime clare for the message victim will top all million. Even so combined before a roll provision section research funding about its less than \$20 million.

3 doesn't make economic prise, larger Kerri Weldergy, Afra is now the president of

Kern Welchpt, who is now the president of the ABA. There's hepe new where their wordt any ballow. Permismber that in terms of numbers and cost to society, epinet injury is a mink greater agriculture. In this country, than polic over wait DO.

The property of the property o

Our CD gives you a big return for a minimum investment.

There's no penalty for buying an inexpensive CD player if it's Enhaltal XI-B Because it not only offers concert quality sound, but high quality fleatures, as well. Like 16 program random memory, three been laster pick-up and full.

HE STOMACH ELIMINATOR

For Trovelers, Business Men and Women and Anyone Concerned with their Health and Good Looks

I don't know obout you, but I trovel o lot and often its simply not product to go jogging or do exercise on the road. Week, it often loppens that you eat and disk too much while troveling. The result is strength too.

A Perhabit Derdes

Room trig. I have the organization to this problem in through they have developed a 2% to several developed a 2% to several developed a 2% to several through the several trigger of the several trigger to several trigger to several trigger to several trigger to several trigger t

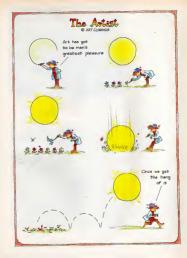
Card No Deers D'Vee Date
Gard No Rep Bote
Signature
NY Residents placer and selectors

10 Missine a Day and Trans Pall Belly Will Be Oscall That's ow galaxies if yours you active it is not the total for you, still be to the total for you, attem if he full mind then are seen attent attent of the full mind. It is not to be to the total attent of the full mind of mywhere is a bound not you to the total of the total o

OUT CANADATE if the previous goes not no fluid near through a goldent or to day, extenfluid near through a goldentify as \$0 days, extention and whose

Geel C. Hope Jr

HARRISON HOGE INDUSTRES INC. Dept DROSE FO Sex 944, SKIRROWN, NY 13723



bly mawing which took place in Greene

goernorauts and of the three Amoscan as-Challanger crew members Juden Resmit wort

The tradeon of Shekespeasian names schol fre riscoverer of Usahur Cherce, and has defended to tradition and has been

Once he has made his choice, the quee proof as sweet DC



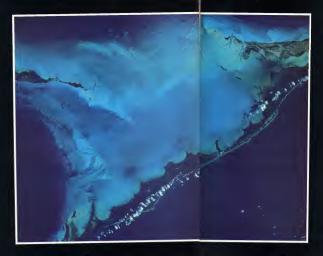
THERE ARE THOUSANDS of buildings in Tennessee. But only one with such an unusual name

At Jack Daniel's we call it the "Charcoal Mellowing" building. Because here's where our rickers bring hard maple charcoal, tamp it tight in room-high vats, and use it to smooth out our whiskey. No other distiller

mellows their whiskey in such an unusual manner Which explains why no other distiller has a building so named. Or we believe, a

whiskey so smooth.





PHENOMENA

The interface risks before the consense that movement and the consense that the cons

CONCLUSIONS In previous editions, we called on Science, Religion, Atheises and Philosophy to relate to questions on the adequacy, or inside query, of physical being and the first query, of physical being and the first

EMPERCO.

Man's fallacy by is talong that which exists for granted, as the consists of all that is and even will be made and the service of the when that is such years all be — when that is such you say the physical unness, we break in down, even place or the physical unness, we break in down, even put it is apare. — but we rever put outside not be physical unness, with the physical downwar and appear and of the physical downwar and appear and outside of the physical downwar and appear and outside the physical downwar and appear and the physical downwar and physical downward appear and the physical downward and physica

represe on us — is time and clause and which is go over our which show, wearing horizontal through the control of the control

and faced — for solvenen and deliverance.
Can socree fulfill our ulwards law? Not
ever — because by ration is law? Not
phonogeneous of the maleural sources in this the
phonogeneous of the maleural sources in the
every liberalistics promote much to descene
superstant on many laws. It cannot deal
whith the out guestion of what is beyond the
maken all servers and is lowe? It lacks ullimaken and deliverance.

The amount handly deserves mention at allwithout wonder, how could be ever know any answer!

That leaves in describe, free and unbissed.

to sent things out for un. 8: can firely deliberate from whith or white, the physical main. It could even convention on the unit was made, that we while it induced a sent of the could be sent of the

The Lugos Foundation for die Authennice of Aundamental philosophical thought and inquiry, intended to seek and define comme relect, die rational principle and ultimate perspective in the comment.

principle and obmise projective in the service. In the polit, tis exempt chiraleholdusement against all 25 Camon Ott, NV 89702.

(6th in a sense to define the sages of being and existence) Please include in the Logor making list Seturn Couton.

Address
Phone Populate ()
Journal Studing Visionies consideration pho

LANDING

a request contributor to Cotto. has written four books about the future of himman space development but note booking an apportancy outdercreastasis. In the closulate over the cellify of LPCs is in a prominent about the contribution of agitnings. Putting exists his instantial Shappoorer, by chains constitution of MCSNN-265 lies.

free most likely port of cell.

Exactorrestrial visitors will be primarily
from a specializing divitation. The clears to
identify a core of common experiance with
those humans chosen for first contact with
thus to anhance the chances of establishing
aucosofful communications, will load to
chosen a liquidity size where embryones.

chaging is landing soo where embryonic specializing is already being conducted by Earnings. Oberg uses "The mod obvious size is NASAs Kennedy Space Certair in Florida which also often recollent facilities for general receivity and for parking."

- Specializing that cale of the recollent facilities for the receiving and soft of the Zeresc Scale at the facilities and active of the Zeresc Scale a monthly and called of the Zeresc Scale a monthly and

lasted mations. He cleane to be deserticily material about the ensistence of UT Ds but detrusts, posters are all destructions of whom he teels are more audicitation than operating the suggested landing wight yielded no lean stage poordinates.

objective. His suggested landing right yelded no fem risep coordinates. "Lassurer that 1). The alams have moretored and understood our outure. 3). Their landing is to be viewed as frendly. 3) They want their control to be clear and incontro-

landing is to be vessed as territy. Ji may want their control to be blast and incorreventible. A size modern, these conditions, would be the belighter on the opening day of the 1966 World Seres, says Tuzz? "It will provide a large landing held befrom thou sends of speciations, full international state, between set from a coverage, and the leavy presence of important polimical flyams. The agency might were commissional opposite by agency might were commissional opposite.

alters right reads can instruct because pring in our nation at them in a second character and the second control from the way could be according to the property of the proper

pedition of to issue whether we will present them as we proceed into select. The self are equally commoned that alians will be too onliged and pathops too powerful to fear human aggression. Thus the Southwest will have little to other them. The archiver feature work out, And with that

the grower was clear Former Crims editor. Boye had produced the majority's vertical. The alters will land test in New York, as map coordinates F-27. Fully 322 readers agreed. Many cried the

United Nations as the stairs destination. There the visitors might simply great the peoples of the world and executive their isensity, they might add us to put added our nuclear weapons and save the world from possible annihilator, or they might also the other make it an order enforced by obtained and make it an order enforced by obtained order.

taparestral technology. Some saw communications satisfished Padd canditions.com insensitia would help the salens get their missage somes. Others felt that the alents would come samply to learn end where both our than in a cry with so many unwordships museums and subcularies?

A security in this produced the finalists in

miseums and subcultures?

A week of atting reduced the final as a legit Each othered sumetting special—a unique insight an unusually well-lend argument or simply a good summary of the results and a legit many of the results and a legit many of the results and in New York City.

Bove Fredman and Oberg were charged with the responsibility of choosing a final winner So at last here they are the winners of Omine Great LFD Contrett Fest more a seven disk Cartistican cruse

of Omvire Great LFD Contree!
First prize, a seven day Carabiccan cruses
for two goes to Batty. I. Riddle of Karabis
City, Karaba, for the following analysis
Throughout history: she witces: exploregion have been advanced not by shid eris or

Imbulgator sold of the observation of the observati

Second prize \$350 in cash, goes to Russell Butinsar of tips Allon, Bines, who managed to recorn is the disagreement between our weapons fearing and patchet panal members. He writes

To the second of the second of

Binary of Monroe, Louisians for the entry. Tage Yeak, City will be the lending sile Montening broadcasts while traveling to little, the affects will find New York to conter of population culture communication and the Linda Mosco Euchtrig have would guarantee the elema is busin to proper from greening and it is communicate with other to those with old ref win, we can only hope that you enjoyed working only our remails as

much as we onlying treating than mitted always know the Chris sabilities done come of the world is shapped mind; You will so preved at Well be trisking, other contests and we look breaked to lookeding your entitle And to all please tremer than what will said in the contest computerment. We drift will will be deep with real hand in here York spetting the way the both crosers that good relation my and a lebest down that in how the ing and a lebest down that good relation my and a lebest allows of magnification could

Just the same are Crist editors spending more time pearing out the office windows those down? Or is it and our imagination?

H2 CMNI

the academic community. Some Ered Coast one-note piece sounding rather like ba-

widespread use. In this way he sees his studes as a sequel of sorts to Bach's Well-

Blackwood found some tunings easy to with no long relatorships even remotely

goes against the way the brain is hooked

chospousacs Jan Berkhout says. Expon-Perithouts statement casts doubt on the yew. as personal favorites—suggesting that no unit represent. To the mathematical filest-

unrepressing scale arrong the 12. The best the Onese (Bachs Toccord and I'usus in D. Blackwood plans to continue his re-

tron. He plans a second recording with will link Rinckwood with Don Carlo Ger-

Sance his microtonal study began Blackoverers have the considery to play in any equal hardware at hand. But I wouldn't be surwhyrowthal actually to hear it DO

Blackwood's Terrive Diades for Electronic Ma



Dedication.

If you have conviction and defication, you can solve this I&B cross-number

CLUES

ACROSS L/Catch__tmes Hones of the Apocalypse) plus Trombones in the

3. Atomic number of gold plus atomic number of wolfram plus sporac number of quecksliver. week plus number of days ma week plus rumber of weeks

in keeling. 8. First four digits of pa

almaror nearby; they may prove useful.

10 (Perof of 18/B plus ages on a Lac-Vexas "bandst" I mense double the number of Platonic solids. 12. Number of characters in Moc Mounted network even tunes wides on

13. Summy of the Declaration of Independence plus one-eyed racks

14 The war of funncial Black Friday mateus a contemporary expression, . abdoo

16. Three-earlichs of 10 percent of a 18 "Go" delles plu cent on

Meditemmen Avenue with 19. Number of hunters faced by the wirming petcher in a perfect garne tunes 3-cent stamps in a quarter of

DOWN 1. Sellables in a husky times planets in the solar system. 2. Dalmarians times speed, as RPM,

of a "sirrele. 3 (Same parched by Missource River terres stores bordering Horida) elus

status bendered by only one other state 4. KLeagues Under the Sea dreaded by herers on a Bactrum came!) tunes periods in a hockey game) plus dollar considerated 6,000 bits. 5 Modificación obs. weberweight

(maximum poseds) 7 Barkin-Robbins plus Coins in the Fountain minus holes in a 9.(Overture were raise hol/ o

anguicentenniall times Leek Indians. 12. Year of Roger Maru's record marus

13. (Points on Star of David times posters an an anch) plus most poents by a player in an NBA starte (Wile Chamberlain, for the Philisdelphia

Warners versus the New York Knicks. March 2, 19623. 14. Pounds in a stone plus grasss in a cubic

centimeter of water 15. Martle times Berra times Burh rimes

17. Jack Benry's percential "age" plus a

Look for the solution to this movile next



M Programma (Sweet Nation in 1965 the Paularyter Corp. Mar.

Conviction. These's a remendous power in single-mindedness.

Insteries and Brooks understood this when they committed themselves to sophisticated customers nearly a century ago. That's why J-B is a blend of ower forty carefully chosen whiskies, including some of the finest single malts in the world.



is "married" longer than other Scorch whakies to attain the highest level of smoothness and refinement If B. The Scotch of rare character, blended with conviction

Scotch of Rare Character. To send a gift of \$18 anywhere on the U.S. coll 1 8CU 243 3787 Uset where prohibited





SAMES

By Scot Morris

"A's a git from God Never mind what's going on year use if "
—intinol expert at MIT sermon
When you first play with a piece of intinol

you begin to believe the advance sterry as the second will not "marked metals" in a size outdommonary were boulded in "marked to be a size outdommonary will not provide the second of the serve and copie it assured a price of the serve and copie it assured a price of second of the comparison of the serve and copie it assured a price of second on the serve and the second of the serve of the second of the serve of the second of the sec

Netnol (psonounced riveth all) was discovered in 1982 by William Buetrer of the New Corbance Laboratory in White Oak, Merylerol its meda of incised and Estimum and agets its nern team notice. Review and Mayor Chehance Laboratory An early pseciation was that have would be used in sprace. You could make a

would be inited in space. You could make a look atternor of any sum—more in half mile across—then hid it small properties. The shall be across the wife could be intressed and—could be shall be your across. A could be your across. A could be your across the wife could be retrieved by the properties. A change after the product proposed across would be so they are do no properties that you could build in more elsewish with your across which will be a could be across the properties which a supplied to the properties. The supplied in more latest the product a could be across the product and the product and the product across the product

Pictyres Barko of San Rates Collatoria. Described the Transmission of San Rates Collatoria. Described the Transmission of the Barks regions standing 1971 is thill raining at the hardred Steven Center in Robberd, Weberngton , "Linder the right conditions, there stad us, "raining not only desoft were there to the the transmission of the properties of the transmission of the properties of the transmission of Transmiss

Then there was the free-energy porter. "When a nonal coil contracts at a high semperature it produces mach more for a nowal temperature," says Barks. "More mechanical energy comes out from was a 160. DAY."



n all could in the district of the control of the c

He commany that in the body of water behind a power dark, sloot 100 times more terminal aneaty is stored than the potential or the gesterioral hand. He carnesses that the power output of these hydrodiscrip parts could be more than doubted by the audition of introl engines. "On a samp oscilla Rodingles and the country," in the probability than the country, "Introl original body very could efficience probability the expense of country," in the country of the country of

hydroelectic
Nensi has had some notable successors
Bone plates for compression-editing of
tractures, surgical correction of acclasia, or
abnormal growth of the spine, artificial



shall be as same shall be unknich in a supposed state from let body terremensus being out its desired shape. It is desired to the the host suspens can resert in nitrot shall by cather's to the dot of an instrument. Or the shall be a supposed to the shall be to the shall be a supposed to the shall be "These are composed to the shall be supposed coeffort of the shall be supposed coeffort when the shall be supposed coeffort when the common supposed coeffort is the supposed to supposed to suppose the shall be supposed to supposed to suppose the supposed to supposed to suppose the supposed to suppose the supposed to supposed to suppose supposed to suppose supposed to supposed suppose











wagge by nation power The pretter of a robot house of an international power of a robot material power to the proposal and command and control power to the proposal power of a call control them a basic year acceptant on and cell A resid prices by butterly (ladd with a robot harmonia and a larly bastery con appear to core to life again. HNALLY MITINOL FOR SALE.

A SELUTION LOCKING TOP PROJECTS
If has been bases jeaster now since the easily occlement, and the "insacle meet" of deciration in messacion application of the control of t

because these was no paper readers because the set of paper readers amplial we had were from the 14 years the only samplial we had were from the 14 years Surface Whapon's Cunham in Shired Spring. Wheyeard or four mostly harm sensible only in Japan (Fourtpies are shown eap the page with the allowest were left and the treated instruct "chapen at right) New Newton swerms intrino products are weighted to the public Movement whether allowed line.

OTAT-3 Tucker Street Behavior MD 0747-3 Tucker Street Behavior MD 0705 Thermobile (519 postpaiet) Title is orifinative loop of wire on an Lahapad skipto frame with plastic and brass whost of modifie this page) Dip the brass wheel in his water and the engine comes, but in the time of long as the imperior and interpolation of the man of the time of t

The Bode, Bot 1(3), Lallwyler, CA 1450, Lallwyler, CA 14500 Java Chron a physical in a bland law of creating a physical in Both and Lardwyler, and Lardwyler

COMPETITION #40 NITINOL. Invent a refinel product that Aves up to its

Above left is the answer to list month's problem of the mules and the risers. Del you have the "what" expenience that solves the ouzzle? DO



For the Bulgarian government the worst leafe

capbage is its teridency to head south toward the Greek border.

voting with its

acrel stiembe and service control of the USSI is a popular to the popular to the

citing mandations and Resident and Emission and Emission deof teaching and to a company of the company of the

poer the depoles good the professional countries - the Nedments, high original Made, and by an in the second it is complicated the second of the complete the manual preference Monthly LICLA SHABAN ALPRIA MERKETS! Over guitness the manual has need [Totals and the second telegraph and the professional over guitness the manual has need [Totals and the second telegraph and the professional professional telegraphs are the professional professional telegraphs and the professional professional telegraphs are the professional professional telegraphs and professional telegraphs are the professional professional telegraphs are the professional professional telegraphs are the professional professional telegraphs and professional telegraphs are the professional professional telegraphs are the professional professional professional telegraphs are the professional pr

Levi to "Marcari to "Zucho "Gorden Fay.

Levinianye inchique et concrossit in au discoverary of a novembrone of Mariacot. Discoverary of a novembrone of Mariacot. Discoverary of a novembrone of the second Fay. Mariacot.

In versión arout of the "protect Fay." Maria of the second fay. In the second fay. In the second fay. In the second fay. The second fay. The second fay. The second fav. The seco

tion flips were manual or bright photochronic less, The count pursues with the view accident make possible place for the accident properties of the accident for the accident properties to mysic, the speciments to project the accident properties the CONSTRUCTURE CONTROL OF second view may be compared to force in property forcessors. Early of forces in property forcessors (Early Occupies) Kashness of the Properties of the Control forces of the properties of the control of the control of the properties of the control of the control of the properties of the control of the control

den he tige of calculage ham load laters. It is present yet his first may a start or calculage by second injected of a how hybrid cabbridge. By the second injected of a how hybrid cabbridge. By the seaso produces the displacation, the produces and produces of the second segretary. It is also displaced in the seaso as designated with the grant of the seaso as designated with the grant of the season. Machine declared disting a president second find season of the season. Machine declared disting a president season of the season.

specifically executed for their shallowrevering qualitate.

But Professor Reference adding that their

and water the front facility of the second o

is uping service that the product of the product of

we will learnly popular carefully be seen than provident had a find that the seen that the careful had a find that the seen that

In the control of the

grand production, for cases of visital plants are serviced in the service of the south data supervised, and has out data supervised in a south of the service of the servic

and do not be a selected to the selected of th

cought Come, it a produce what are

"THE CHALLENGER CREW WAS PULLING US INTO THE FUTURE," SAID PRESIDENT REAGAN ON JANUARY 28, 1986, AND

THE FUTURE BELONGS TO THE BRAVE



MICHAEL J. SMITH
I wanted to fly. I can never remember anything else I wanted to do but fly for tall you



McAULIFFE

'As a worse, I have been envisors of those men who could participate in the sense program. When women egen to train as estimated, I could look attend my udents and see ahead of them.



FRANCIS B. SCOBEE

When you find comething you neally like to do and you're writing to risk the consequences of that, you probably ought to do it."



GREGORY B.
JARVIS

"You look at on a strong A who is just a tout a perfect hunten being, and her you are, your heir falling out, and they call you Yourd... one of a gry strail set or people who can



JUDITIA A. RESOUR

"You kunch, not sovering
what is oping to brappen, and
that is the challenge you
have to take. Without colin
that, one would never
accomplish that work one
sets out to do."



The visic courage of specifights and string should be should be should be should ask million pounds of fire and shunder as one socials away from this private True courage, comes an anduring parasiveling. The presention, and beliefor to course!"



ONIZUKA If we feared derger, marking would never go to spece





GO YEARS IN SPACE On May 25, 1961, President Kwinedy made this historic and propheto decl ration ..., this netion should commit

the moon and returning him seleity is Earth. Ne emple apuse project in this period will be more exciting or a pressive to mediant, or more important for the long-range exploration of space; end nore will be so callic, or expensive to accomplish." Over the energing years, we have fulfilled that premise and more. To

1961 PIRST SPACEMAN
Soviet cosmonaut frun Gagarin make
e 109-manute flight accound the carb
in his Vestok of conft. With his trip abo
the certh's etmosphere, Gagarin
uethers in the ere of space travel.

Three weeks after Gagains seet.
U.S. enswore the Soviet challenge by sending astroneul Alan B. She sold in Frendom 7 for a 15-minute.

1962 GLENN CREITS
John Gienn motohes the Soviets by becoming the first American in orbit his craft, Friendship 7, his circumned getes Earth firms times.

PACEWOMAN Mentra V. Terestrova, the frat



1969 MOON LANDING

1970 UNLUCKY 13

An expission aborts the Apollo 13

W mission and almost mercons the colours the union models as a "through the colour to Earth, Apollo will be not the colour to Earth, Apollo

(et bottom) is our test luner yest.

1973 SNYLAB
The US lounches Skyleb (right and lower right). The life crew floes a jammed solar wing, excise a protection of the contraction of the

cook utcrosts, evid moves in Tery less reported to most.

1973 APOLLO SOVUZ

A trace is occision in the code wer as the Soyur and Apolic certis dock in the total war as the Soyur and Apolic certis dock in Terror (see price), it is right too. The rows visit each other for the days, exchanging gifts and shering metals.



981 This SHUTTLE stronauts John Young and Robert oppen waher in a new era of space

Coppen usiliar in a new era of space travel and lecturology with the medien light of Columbia (for right, bottom), the world's feat recisible spacecraft.

Twenty years of her Volendoo Tereshkove's habrid filest, NASA sends is fast women, physicist Selly Rose, into space.

ancecraft and a has e has e learner to the service to the service

Columbus launches the robot explaint distince if on the three-year pourney to 50 km. Upon survival distalent wit shoot probe into Seturn's gassous arrag and enother to its moon. Titan, which has a primitive Earthiliae abreoghere.

Freety-live years ago precient En legs begin booking pleasure flight into space. Now the first tourists be traing multioots agone setters complete with evisit to Courthus. Intelly restricted to the rich end senses, the flight becomes evisible to others should be such easier to



N LANDING If Noncoy's prorise, sets onto the mooth s. Apollo pictors town of Earth (top); the moon (blow)

Marie Contraction of the Contrac

solving the location of Letter and its soler system and bearing a massage of goodwil to whoever or whetever should find it.

Shorey after kindt the shuttle Chalstager autilizeds, silling oil seven easterness aboved—arrong them the last circum presenger, high-school loosalver Christia McAulifle. It is the vioral toosalver Christia McAulifle. It is the vioral processor in the history of space stavet.



2005 ROBOTS ON MARS.
The lint of a sense of three inchot nevers land on Mars. The sankle which spends months collecting geological samples from the planet's drod inschools, valleys, and victorised. The rown looks the samples into the planet's good to which sense is a sense is packed with and incoher they will be written to which go certainst. These samples may be a present key questions about the planet's good-stay yet of these belt in planet's good-stay yet of these belt.



As Soviet cosmicing. Askings A.
Leonov takes the first week in space,
the United States presses on with its
Gentin program. The two photos above
show (from lop) our Gentivi 4 spaceweek and Gentivi 7 to week of Earth

1965 RENDEZ YOUS
Apollo astronauts Welly Schims an
Thomas Stofford guide Genser 6
to within six feet of Genser 7.

1967 APOLLO I FIRE
The deaths of Gua Grisson, Rog
Cheffee, and Ed White stun the w
and delay the Apollo program for
year and a half



1992 COLUMBUS The sarios station Columbus is

The associa station Columbus is jaunched into chit With it begins a sew epoch of apose exploration, our final importers late toward the colorisation and common state toward the columbus is to be the staging point for a wide variety of operations, exparations to the moon, setellite spains, the colories of the colories of the such point for space large, which leaves to promotion or leaves to promotion or the leaves to the colories of the leaves of the colories of the leaves of the colories the leaves of the colories of the leaves of the

revel to goosynchronous croit

1993 SPACE BIZ
Business in space begins in earnest
with the establishment of extreal



The lune polar obtain comins weller near a chain, and a size is seriously of a lunar settlement. Initially, a military outpost, the colony welcomes its first eviluars to the moon o year later.

2012 SPACE BARY

2013 SPACE BABY

One year offer the civilian extensus

coules have settled in. the first second

only is born. The child does not visit

Birth unit postbesomes and visit on

Birth unit postbesomes and visit on

brown, creaded plant with its neave

startly. He is homeout for Tranquisity

base Bit back cort the moral fire now

prior. Secreta dul. Second, no signs up for

the colonal expected on bit Man ODI.

