

POLITICS OF SPACE NEW HORIZONS IN SUBLIMINAL PERSUASION · MALCOLM FORBES ON THE FUTURE OF CAPITALISM · THE SHAPE OF THINGS TO COME

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FIRST

By Bnan O Leary

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We initial remote themstal centers, unlaterator final, will allow the space shall find hybris because of a task of fusion and that every low shall be made writed and that every low shall be made writed from that the US coulding space program. Therefore, more and table, will also it were, but in resplay approximation devices and its program and the table of gamma themstal representation could be also and provide the complete procession. The There and general in the second s

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 Aluch work needs to be classe. We have to Scrooten the basis of the exposesupportence constraints only only one of the analysis of the second scroot screen the of some space-scheducey organization. The BP others need to know that they doy, can become advincts. Lock on Thody Berly mailing tell storting on page 80 existing dot than you can join.

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Cardial

LETTER

COMMUNIC/ATIONS

Cool Common Sense

I was disappointed that Jalf Rown [The Arta, November 1960] compared the artifluction movement to the suppression of Gallico. Mr. Rown abviously has not explored the super in question.

Most ruckat jower opporents ere not horhrested fanzions, ihrey are thoughtat, ritelligers, weil intermed, precisel popple They oppose takes so incluse genere plant on an refrigue needed to cool the most mans energy is needed to cool the most than is necessary to keep load cost

The objection is to the use of nuclear power, not to the source of the nuclear power to head water is like using is alroin to head water is like using is alroin to full a fly hadear power has much please power has much please power has much please power look to solar technology to previous an differentine, according to prevale and

Rown asks us to use "cost common sense. I ask hm, is it common sense to burn a foreal to boil a pen of water?

Mormouth, Me

Beast Goddess

It is highly encouraging that in the two-it formicinal works of exempter and exchange (chain has recognized that God and the spinfuld drivensions of the are still wry two stores. It has been suid that acence totion is really modern mythology portraying the deep tesues of the meaning and desinfly.

"Pould Nationa V Hanne of Chi (Auguet 1980) deals with the seal-sean tarms of what may happened to the body of About Child Thin seams and the about Seal Child Thin seams and the about Seal Child Thin seals are considered and Seal Child Thin seals are could be another motif of the nature goods and the about Seal Child Seals and the About Seals and the about Seals and the Mathematical Seals and Seals and Seals and the about Seals and Seals a

So we are brought back again to Natir's concern which is the primary spiritual issue of the Age of Science. Can this body be receivered by its creator or does the Beast Goddess have the last word?

David M. Bowring Ibiorito, Ont., Canada

Peel Pipas

Install mindea similar to the one that was meakened in Chardage Biochain [Continuum: September 1800] that was everlaped in Chardage paids. The mind a stoppost at the to stratege paids. The mind a stoppost at the to stratege paids. The mind a stoppost at the to stratege paids. The mind a stoppost at the to stratege paids. The mind a stoppost at the to stratege paids mind paid for klobale to the stratege paids with paper and its VeAN Chargeberg per third Chargeberg main and by Lalding posts stops as mind by Lalding posts stops as mind by Lalding posts stops and the stopports of the stopports of the stopports of the stopports of the stopport of the stopport of the stopports of the stopport of the stopport

But iss time piecesist many and more people found that the paper began to dry + suit in the tropical heat, eventually failable collapsed, and hist to be replaced with the old steel or modicial paper

When new technology fails, there will always be the old technology of sweat and showels to set it right.

Lat a bury our refuse, or find some long-lessing use for it 1 refuse to dig any more of it up

Norman Michael Belog Augsburg, West Germany

Overpriviegos?

Invaliate a despitor to some of the commany make in Drivi's December rose. At through the First Word, therein task of the United States in space, as if there is some fandinal dealers to get three find and the United States in space, as if there is some fandinal dealers to get three ingstring there second Study'r twold be reference to task from a scene dealers.

We should be trying in these troubled traise to cooperate with one another in order to use the resourced of the moon and other celestial bodies for the better mont of markend, safewithen for one attractic exercisive monors.

Oute frankly if all the U.S. space program is going to do is hauf the arms tates into space. Those they stay down have and help solve the workd's more more draw postients from

Robert Balley St Alberts Enderd DO FORUM

In which the readers eclass and cortreportubatio decase reports enougling of OTIM and Mechanical ad approximation of paneous interest are brought faith. The inters publishes all removes the publication of the eclassic Latenci for publication inhord to maked to Otimis Fourier Centre magazine 600 Third Avenue. New York MT 10020

Bran Waves in Advartising

A record both from an adventising against, in Canada (Porum October 1960) con topic a consist of labous interpretes boout the uno of Charakawa analysis in adventing. The writer coloris to have concluded measurement on trans in wave analysis. Eofere concluding that the laborhouse were to be used the assume two research, wata conclusted in a types of the laborhouse the catagement in chasa is imposed on a three typer. We usual the following will be sufficient.

The Interduce on bahavorial an sponsor of surgecelly treated epileptic split oran patients that he offer last no allowance to studying the brain waves of normal people webstmic televesion.

2. The hemisphenoid diffuences we liable to init 3th on our own published to more the published for the second secon

3 Our findings of differences between the cerebral harmspheres are far from uncure. There are hundsuds of artestes in the scientific literature that report these stime pheromania under many conclusion.

4. The non-sequeluit hait brains wave searching is brown soft the borkschask foot is fible to the caseling. First, beprovide the second second second second brains of physiciania in numerics is hopped is sourced the work is a walk of the second second brain were analysis as to builty unreliable to be been been been been been been brain demonstrations and brood provides and than demonstration and brood provides. b. The Usakement that the use of both white adapties in advertising it to have not been as potentially false. It suggests that not be not a potential factore puts and the first address of the develop in efforts for the address the advertising approximations using address the advertising approximations using this service and clients who employ it have main dimensional who employ it have main dimensional to decade.

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> Schey Weinstein Ph D Darbury Com

Credit Whare it's Due

I read with greatinitised, FI Bruce, McColmix anticle Ecosheker. [Doctober 1980] I was schemelika dismayed however by the tast paragraph in which Mr Bray Marion apparently took oreclit for a consept that I hait made public in 1972.

I preserved this idea to Mr Mason in 1975 in a short panagraph very soughty describing the basic concept of my thought structures. This description was included in an article for The Fukceet massance of their envi-

Withough Elforms have also been the outpetch of articles in Anothercharaf Design and Donose 1 do not with to take anything away from Mil Mason toul I want people to be awaie that the thought structures are my idea along

Cartyle II.

Extra Missing Units Found

I we just mailed my third entry to your "Drivs: comparison I scribbled down a few remos after reading Orive, and the links began to occur almost automatically New I bean a century. Manuel taken?"

Now I have a problem. How do I stop?

Lost week a fellow introduced himself to me "Halfo Tim Mark Fahrer"

Tab Hunter Trepled Dr Looutg go with leave Watten My wete says Table mr my steap Toracial. Battman Batter Ruth No wonder Leader exhausted Hou can see the will read only to modicines. Town continue data totatm. Rease help!

Herbert Rever (Bucky Basser Red Ryder Joe Green Guseppe Verd) -) Moneta Ga Marcy dealers where strategies attacks

Invisits For a delight/u positivisation see Competition Results, page 124 — Ed

Harbor Seal Update

Bince I wrote the Earth column "Stranded (August 1980) mare than 500 herbor tools have clied from the mystericals excepted hall depict used the hand

If had been suspected that the prevencent that had been available been reduced by an enforced wind what has all has not been borferned, this what has been reduced in the lange of dead save to establish this what are the cases heatthy special will be incoulded with the what if hay de learn fast eating periode the established.

Perhaps of more significance is the fact that the virus is emiter to one found in whit dioks. J slepping and encodences. According to Dr. Robert Webser windogst at B1. Judits Chicken's foregaint in Mempha-Tennessea who isolated the virus. The isthe test recorded case of an awar wius being brandered to a rearmination.

The 64 important to the deviate law of muses. We don't have how weaks another but it is hought that impact them bases another house it to the best accent that a down writed to assume and important manufacture ansminels DF Wester makes that point instrainacity. All popple involves minimized assertion participation and them is no evidence of transmission. While good conclusions they will be looking to the possible of the bases considering and conclusion. They will be looking to the possible of the bases considered and the possible of the second and the possible of the bases of the second possible of the bases of the second possible of the bases of the second possible of the seco

New York NY CO

ECOFIGHTERS

EARTH

By Enc Schwartz

The day promises to be a profisble one. Working quickly and efficiently the crow of the whering ship Secs begin to alwayship and fonce They wench the marmals cut of bein environment, process them, foocothem, and thinkolv pitteen the ware.

The flag of Cypris flaps ovaithasis but the regarisation flap is charged flagsand upper the regarisation flap is the second a company of the second a second as the Articath. The cargo is means if on the Japanete. They are modeline day parallele — while its moving the energy ready parallaging mituries backing, unchecked by operminents in all leave. They carry gains

By the end of the day, whele meal his herical and herma autimed Methodcally herical and an and the depart and the second second second second cases could and during a day and and hashing of the herican a set of a second discovery of the herican second second discovery of the herican second second manner later below a case in second manner later below and immunity across a during of doorse and in monage in speed It is not from the police that the whaling ship runs includent a rayed vessel or Coast Gased cuber but from a new bread of environmental activity who has made a science would be top perste wholing by any ord all means.

Writery came for these acologues an July 15: 3070 the cost of Perchapi when Pick Walson and this seaw aboat the TBU ton Bas Stephend crowned the Sature and put the whenling vessel cut of commission. "Recommission taxes, outpare to later unlinew. Welson recolds, "and Later as wit The wear not a subcentro operation." Whole those puys well servic them of they object to solo."

**Wetcom, have'ry denic a Damastein outhy fetrod and Brendly when not swaithfuedring, has no sympastry for the wetch of opportein bisary private withing hitsis. A career ecological activat, he was not of he is sno longer attriated with that not of he is no longer attriated with that outhing the single state of the state of the outhing the second state of the state of the outhing the state of the tree between a third state of the state of the tree between a the state of the state of



Contributed straighter of the harp snar and other species is torring into activity into outaws II. Canel

youngsters to respect animals.¹¹ get the impression that instead of going out to shoot birds. I should go out and shoot the lads who short the horts.¹¹ Waters sees

Twenty years take the services to proteches children is to be compared to and a wave momentum protecting and to the compared to the compared to Adartics. New though the efforts of Westors and others in these an increases in newspapers for the energy of waving westers, and no build in the energy of waving westers. and no build the energy of waving decided to granue (the interprots. Two westers and no build and the prot of Marin Instance contracts the basis of Marin Instances contracts have basis of the energy of the interprot of the second of the the second of the basis of Marin Instances contracts have basis of Marin Instances contracts have basis of the second of the second of the basis of the second of the second of the basis of the second of t

The not something to be proud of " says Watson, recalling the incident," just something that has to be done

The note radia is excepted activity where a net or even The producted fundamental deat policial early, costlogical activity as a mercennet reams to be on the nate workshow teams to be one the nate workshow teams to the one of the nate workshow the mercennet activity and the human back activity is designed and memory and the submitted teams and memory to be apprecision to the production to the submitted teams and memory to the submitted teams and the submitted teams and the submitted teams and the submitted teams and t

The place day of an encoding of the cool o

We are the megazine of the movement. Martin says, "and from what fican tell, what has happened in the movement in the past is tame compared to what is got to be happen need.

The democratic way of doing things contracto owings ins





By Dr. Bernard Dixon

In triangle to the term of the terms of terms of

This may be quite underlinear we spind every-mosaning amounts on cloodenaris, impersperants, and search operation products for every not of car anishionity and we down cusolves with potent charminals from head to be We do this event though we show hothing about this complemente of our actions.

Now Professor Sydney Selwyn at Westmisser Medical School in London, his giwni us a glimper of the seering morobial Ha that populates our bodres and creates our octors. He has found that too flexib occessin this our clean-heates may be as great a health hazand as log little

Contrary to previous reports, Belleyn Isas shown that we are craving with bactura Every spaws constructer of the scalar carries monsthan a million of them, and even the finearm— The least space liabed area — is covered with 11,000 per square continence.

Another of Stelvyn is discoveries is that it claphysococi: the gams that ocurs bols and small interfair iteration grow in only a lew bocataris on the harman body. The wast mejority of telen microbias are insubarr commensate. The long was they harmloss, but they was protect us from classissecounting backhers. That is why we should red be too expert to not the body of its moving that the body of its

There are several bits of evidence that prove the bitments of since tracters. One is whisthappens after a chemical overkal, when prospic use too much deocharant the normal inscients, die eff, and foreign bacteria that normally cle on the skin opterce it werely.

Another comes from the study of battern. All both their skin is writingly steril



Protection bacteria in an oddhrown pom (magnified above) are wared out by heavy deoporant use 20 Only

and can be obtined by dealest-clustery monobes more easily than at any other period of their life. Commensals eventually arrive to professi inflants. But when they are noculated arthosialy with normal skin bacteria, bables can immediately result a wich range of inflactans.

How does this happen? Probably through population pressure. Normal microbial inhabitants are well actapted to life on the sidn, and so they can usually creved out any altrangers.

This probably works just like any other population of defails to an instead when a forward works peckets is inhorized who a forge standing, will adultated "ecosystem" if can have a wary official time laying to adultation it statism in the top of occordition from the resident registeries. So own a finative index to be been used to advise the best boost on the statism of the performance of the time in the official infector foots, bod, or green. And menopertogens alone have make the first base

Skin commencies also releases taby acts that desirey Candida and other disease-basing fung. Accumulating in unwashed regions, these are the source of offentiwe obtain. But in atmaßer, more natural concentrations they provide a powerful information.

Caritan sket backnes also manificture antibiotics, which desirvy involving microorganisms. Schwyr's relearch indicates that about 20 percent of healthy people trattor sim backets that misse antibiotics. These backets are particularly effective against the germs that cause such designs as expense.

The researchers as Westminder are nowtrying to use holes benches to beaches, or tree articlesics, lo contrait sin intertens, the day spatiality exciting beacase frees antibulics are effective against dessearc-aussign precisite hist seal commonly used drugs. They alloo kil of the quarter writely of dispersive anowers han the artification generalities. This work fools any promising. One fairly acid synthesized by site commercials is now being used before artificien to bot.

Until these drugs become evaluation we should probably cheristic our booky inhabitants. Go easy with the spray DO

NECKLACE IN THE SKY

SPACE

By G. Harry Stine

neceve most — and possibly century Yet a few voices are already ulging us to grore this potentially

power requires a huge investment. And

racket power)

So far thisse swake/acros have been

references criaci at the end of this piece.

An SPS metric send back its power in the people, microwaves mean overs. Anyone

Well, no. The total energy is enormous source centimeter This is loss than one fourth the continuous exposure allowed by

seen pictures of lasers sitting through

Access # 6.6 guestion of power density An SPG laner beam need not be any more powerful than the microwine beam About When it comes to the SPS --- or for that



Shatle done hardwate well build the lost SPS by 1990 --- I we saily care about energy shortages

matter almost any other technical subneeded is simple. Arrivate functing scared

Someone recently wrote a letter to Omn look at the numbers, part to show how astronorry books. Our later writer has

would use an array of solar tasteries ferr 50 square kilometers. (The figure has appeared in most major privation pers and

a satelite orbits the earth in exactly 24 The orrestration in 25 H2O indometers up. The circumference of the GSO is the amount of NORTH AND INCOMENDATION OF ANY SPECIAL OWNERS IN CONTRACTOR OF ANY ADDRESS OF ANY

radian Maliply by 2 for the charnelist and

Let entro the planet with SPS units. It would take centuries, but think big. We I space available by 15, and it turns out suming each unit takes up 50 square kilometers, rs 885.000 square kilometers

be between Each and the sun at one time - only those in a 12 827-kitometer

HYPNOTIC WITNESSES

By R. Bruce McColm

ast July the nucle body of wohrset Helen Mineka was found sprawled at the bottom of a Manopolitan Opera House analysit in New York

The proving the account real beam indexed to the cost by the data can obtain with the cost by the data can obtain data the cost of the data can obtain data the same of the data can be the data of the description of a most weeking candidate description of the data and the data candidate data and the data candidate data and the data candidate data and other data first what has capacity and other data and the data candidate data and other data first what has a poble a data to data weeking data candidate data and the data and the data first what has a poble a data to data weeking data candidate data and the data and the data and data candidate data and the data and the data and data candidate data and the data and the data and the data candidate data and the data and the data and the data candidate data and the data and the data and the data candidate data and the data and the data and the data candidate data and the data and the data and the data candidate data and the data an

Deepter the fact that no presses 62centro definition of hypotoet has even been possible and iso depote a criteria a hypotolic status as the behaviour has generals wat created land as a criteria press and an and land as a set of the second press and a set of the second land as a hypotolic status as the behaviour has a hypotolic status as the behaviour has press department with emptyon in least one hypotolic investigator known as a "biasin begins" to lowence.

Discovered in the large angl teerth century by Fears Anion Meanes, the phenometron, orginally dubbed fammal magnetismic location and appealate parking teer Mean recordly hypotesis has skintad the tima between second and appealate parking teer between second and appealate teething to device and appealate teething tervises and one consistence method for streadows and comparison appealate.

To proponents insprove is an abreed taske indication summers minimate by accelerated recoil, enhanced concentation, and hypersuggestability in the hypothest state. The indication have report with the hypothest where being antereavely involved with a lacet of the own provident suggestime say, can be population, supporten say, can be hypothestime same shares

Doubtons however claim that hyprosis is potting more than determined concontration, not a clifformit state of any kind. They believe similar results might be scheved without the manitori jumbo about transposit, through conservice etbo building and minimary-spurning suchness to space of the contriveness, spheroses hose been used as an investigative local across the second second second second second these of herein takes and Los Angates acapted & as astronomic appointed as and social across the Los Angates herein base to be an angate as a second base to be annexed as a pointer in the basehold as astronomic base of the social base to be annexed as a pointer in the basehold as and a based based of the concusas a weak and another lead in the social across the payments and which as advected to be appointed as and which as advected to be appointed as and which as advected to be appointed as and and an advected and another lead of the contrained and another to be appointed as and and a social another to be appointed as and another as advected to be appointed as and and a social across and another lead of the con-

The PIN attack association between the polynomial program of the p



happens wats, resulting in their arrest Since ther, the Fitthes used hyprosis in most than 50 cases including last failts cases bombing in Rens. Newste

Bowerses now caused tests that carefy the basis potential hypothe without any test potential hypothe without any test potential hypothesis in the Actor Michigan, there was a latered of deaths caused by the matched on Parvisin a current type autokance in the patients autoeptically test in the others of patients and the test in the others of patients and the patients of patients of patients of the patients of patient

The most content on newspace and the process is to be developed from emprocess and victors to premy signature improvements and victors to premy signature prevaces and victors to premy signature Control in the tox. Number of the Development control in the New NA. Note Control in the tox. Number of the Development control in the New NA. Note Development only a present of the prevalence control in the New NA. Note that the prevalence control in the New NA. Note that the prevalence interview on telephone interview on telephone the control interview interview on telephone interview on

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FILM

THE ARTS

By Jeff Rovin

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Conventions have beet however, there is period as incubin cover inmer beitting will be final than Kinn Bystow As the peologication of however, the second second second second organizing immer a gase of charses. An all decision the charses and they all we have a percent of the barrel Area and a percent of the barrel Area and the second second second second second how as people gas them the densers that how as people gas them the densers that Now I am Ming Title actor declares Mind you not just Ming but fimperor Ming the Mercakes. He sithe vitam of wilains conqueror of the universe, a mation of Mercakes and Resputin

No one could be increasively the values operating in the Vicinian Theorem 2 in Department of the Vicinian Theorem 2 in Bendrich Horn and or is a houghth and one of the minimum and the set of the set of the in port horn and the vicinian department on the set of the

Clearly, Mash Gordon is a departure for Von Sydow 'It's a tun pecture, as two-dimensional as a comic strap should



Having to labor under 60 pounds of costume put Kin Sydow in a property merceless report 19 Charl

In Charge (1) bits in cycle in the during the manual strength system projection (1) bits in the strength system (1) bits in the s

When or the short provide who calls for appreciately proceedings who calls for the processing of the short processing of the targets with such thereby also the target of the short of the short processing of the short of the properties of the short of t

Ven Sydow is the first to grant however that despise the contains there is a conger in our ready acceptance of scream wisny — especially when the time are more senses and real than *Plash* Gordon contexts betweet with the All those years, all those miles, all those stories, all those songs, all those sights, all those sounds, all those dreams...

all those sons, one of them is going to be a star. He is America.

He is the son of its heroes and its villains, its soldiers and its lovers, its builders and its dreamers.

They lived for him and died for him and everything they did, they did to music.

This is his story. These are his songs.

It's an epic journey down through the music of American time through the eyes and spectacular moving art of Ralph Bakshi, the creator of "Fritz the Cat;" "Heavy Traffic" and "The Lord of the Rings."

It's the ultimate sight and sound experience with the mind-blowing music of Bob Seger, Jim Morrison, Jimi Hendrix, Janis Joplin and many other great American artists.



SPACE ENCOUNTERS

UFO UPDATE

By James Oberg

Standard J, W. Dask, man & J. W. Sandard J, W. Dask, man & J. W. Sandard J, W. Sandar J Sandar Sandara Sandard J, W. Sandard J, W. Sandard

These and other takes have been passed from one author to another over the years growing in strangeness with each rotelling. However faw UFO experts 7 any have made the slightest abornot to substantiatio or reputation intern.

And the is a pity because careful ovariantiation of the segment records does suggest that astronaus have seen many impat they doing to expect and occide not identify. The mast fumous of these encourters moving de Grante 4 cide al ammes McDiviti in 1865, builtnew were other motible cases associated with Genery 7. Genery 11. Apole 12 and Skylva 3 A complex analises of the UPD strengture turns up dozena of additional reports. The 22 come question is How many (if irm) are true unidentified thing objects? The central issue conferring UFO

The section data as an advance of the group of the generative of the section of t



Enlargement of Demins 11x 1966 OFO sighting

some antial photographic reloxching) But McDivit's LPO story sears to be different The graying benner astronaut and rebred Air Force general is now an execute of a Chicago Inm. His manner is obsectmany/filtowers, and low execut behang the schedaborni implicationer of his antipere resources.

During the second data of the flow day http://u.ini.edu/flow/data. was nakeep. McDett of harroad to glavese use nakeep. McDett of harroad to glavese detting mostay the has never spool and http://glavesend.com/data. Most several accesses in the never a spool and the strip a controls. Then her and had har the strip a controls. Then her and had har the strip a controls. Then her and had har the strip a control.

McDowlt retrained singularly unmopreseted by the sighting. Sown now has trainitians that it was probably only a boothan soluted from some offer earnmode satellite. Although McDwit was wilking to take heavy atout it. these is no record that heavy atout it. these is no record that heavy atout it. these is no record that heavy atout it. The approximation with NASA or with the Air Ecropits Proped Buils Book UPD strapy.

Wholever II was the object caused some puzziernen al Mission Control, in Houston The Air Perce available that endown solidities were need to Puzzied of local soonhad other problems with which to contend, however since the space race was then is do hearth.

The existence in Helumida views is MAM. Does introduced with the Encyclement interpret Does instanted with the Encyclement interpret Second Views of Transie from Streads a blob of Egyment in Ladpointee Isal Within The conclusion Encyclement for Encyclement Account Encyclement from Encyclement Neurosciences and the Interpret interpret interpret interpret interpret Neurosciences and the Interpret interpre

Despite McDevit e deservation of UFO pectare appeared in discers of UFO contracts on mail as

CONTINUUM

Edited by Dick Teresi

in 1976 two representatives of Earth sourcered aprose interplanetary speco, plopping themselves down on the reciclish-gray and destant terrain of Mara Vising Landers 1 and 2, oiting banaath a prixait sky anified the thin Marton ers latened for the rumples of Managuakes, and eved the surers. the Viking measure were a \$1 billion expression of scientific

But an if to marrie their earthly human counterparts, old son has taken its toil on the Viking spacecraft. One Landet and the two Orbiters have now fallon stert, although functioning beyond ritended ifelanes. Remaining on an extended lour of duty is the soli-koreno Viking Lander 1

This loss survivor transmits weakly bursts of weather anprivating, and photographic messages directly to home placed Earth It is opnoewable that the digital symbilical cord of data between the first and fourth plenets rom the sun will be buzzing until 1290, and perhaps beyond. The cost of preserving the link? and analyze the signals in settomatical out as the figure is a pillance. Yet there is no assured protection from the frugsi evelon

To bolister the chances of maintaining an Earth-Mars dialogue a dorthyourself space program has been created. Coming to a tacal Society and introduced to the public last year (see First Word, New 1980) A cadre of 20 to 30 volunteers arment the

We're working right and day just to keep up with the business day pout into the fund a office, yielding an everage contribution of \$10 The response is not just an American physiometers Doothers from Australia Canada Fount Jacon, and the Nathers. lands are not uncommon. Though individual gifts account for the bulk of the money received, many activists have programmed villance

One drame group in Flanda staged Ray Bredburys The Ma fund. An Oregon L & Society group contributed \$100, a product

One computer company donated equipment to aid in felling ruber New Orleanes, recondensely called Marbari Melois, in docai for Weng is the driving motivation behind the fund, the letters

"Englosed m a \$15 contribution Behave me the space pro-

"Hers's my \$5 Perhaps we dial better start studying Russian if we care to participate in the discoveries to be found in space

"Lean only allined \$1 Lamonly 12, But nerhads the Viking Fund can al least show the American poveriment how much we

"My donation is about the cost of theater admission to such flims as Star Wars, 2001, Silent Funning, etc. I feel that if films repeatedly if would do a great deal to make splatce

To date the Vising Fund has received \$100,000 A good start but more a needed "I'm family convinced the Wang Fund is a project the world has been waiting for," Kent explaine "Papple something I don't think the government has really understood Even though people have bills mounting up, they think space

send tax-deductible contributions (the triamum amount is \$1, Roy 7655 Marin Park C& 94025 -/ FONARO DM/

CONTINUUM

HORNED WONDER

If hos the pectgase of a come! the body of a mouse and a nose his a singehot. For lock of a body name, the pelechology at the Francis State Museum and professor d zoology at the University of Florids, has called in the homes Wester.

The Wonder's a distant where of the carnal that isother of the carnal that ourned the trapical forests of Fonda until the earl motion about 5 million years ago Pale-charge ats even unseems the on-mell excited antil 1979 when a food hanter named Frank Garoon food or waitures and book into the material.

As entropy skulls go into a protry strange find Most significant, the head has boot 20 inches long, current forward and down from the long of the head, and the object soil of the head of the prover the noise.

Webb says the centure was part of an orderator may laterary the of Pictocostic data, hotrad manufat, or laterator the comparison of the laterator of the comparison mittal to 40 million years of the data of the sale make. The article and happen data of the sale of the cost of the sale make to be article and happen data manufacture and ha

The Wonder is just another



Shot of strange beast. Note airrigshot rises. Int right

evolutionary experiment in horns tays Webb who calls the outs singshot home on the nose completely unique in this taméy putting the animal entoxity in the own periors

The nose home were probatry used in battles between make over tenniles (only the meles was born of). They would have been tomicable weapons Webb says. The 5 pairs (owwebb, possibly fram being sharpened on the thurks — Doubles Coloner

Man is still the beat computer that we pain put idoard is specercal? — and he only one that can be insist-produced with costoled lates?

- Wasshar yos Braus

"The means by which we live have cutilistanced the ander for which we live. Our sci which power has outwin our spinicul power. We have guided messles and misgueded mean.

-John F Kennedy

PLAT NOT DOGS

Almost a third of all childhood choixing clearths are caused by hood and half of the food clearths are caused by hot dogs, a study at the Jathes Hopkins University School of Hygene and Pubtio Health has discovered

Why?"A this-waved proceof hot dog is the right wave perfect plag over the strway obusing sufficiation, any endermologist Seaan P Beker who askieterwind on the study One posable remedy. Rat hot dogs

The hol-dog finding domined from a texnol of a liew detern child choking deaths in Wanyland over the past ten years. Choking is the leading cause of deeth in children under one year nid and fourth in children aged are to four.

About 20 paraent choked on wooden balls rethes, balloons, and pachers. Half sufficiated in maceilaneous witys auch as being trepped in an abandanad artig antar or being acodernally attangled by a cont in a crib

The terminance's choose of a local The non-ket dig hast included guint drops, the standard guint drops, and the standard standard terminagene liber standard terminagene liber and added that many of the clearling could have been provintial by baber desen. Proving the baber and proving the standard terminal could have been proving the baber and proving the terminagene terminal could have been proving the terminagene tradementation of terminagene tradementation of the terminagene tradementation of the terminagene tradementation of terminagene tr

Flat hot doos did appea

beiligh in the 1940a, but they, detint carbo in Their discage lists are fow on each add of a phase kotgade in an ar passage. A apole orien to the Nethonal hist dag and Sausage Counct and, "We hereit heard," We hereit heard, "Panetrop saument heat ago, Bakor seguetor their held dags he out in strep stakes being held in supported to

- Staart Demond

"A productive-vescolar strike means never having to say you're sarry" — Aronamous

I bahava that a scrar echose rs a beauchy' and rare

Decence, while an eclipte the moon is a cheap and instant speciale — Stree Martin



A hox dog is the right size and shape to form a perfect plug

CHORUS GIRL HYPOTHESIS

While entrail behavioriel Wayne C. Potta was amtitary petch no observed that when the leaster of a squadron made an abrupt manacewer the last planos could not clubelate it quadry anough to stay in formation. Yet large factors of bints made TD-chapme furthe antart they secret to row in uniset. How do they due 17

beau tool on the subject in fact, entire books have bean written on so called thought transference in brits, while ofter measurchors have given bette credit for a both sense linked to exponentigreform.

Nonsense soys Pots now all the University of Witabington, Brids tast quickly because of the choice of the

Pess final fields of durins, a thread lister of the rig arrows fear them to make then turn a brughy After two years, just as he was natural for model (film he discovered the bislof secold First, hey donot family each First, hey donot family index or provide the listers an average of 13 million resource be propagated through a field. Not in the index risk films taken through a field. Not in the later and the time for a work of the index risk of the index risk of the index risk of the through a field. Not in the index risk of the work of the index risk o

Potts examined his film frame by trame and found the crucial evidence. Binds near the lead bind take much longer to make the turn than binds forther every

What this means, Potts



Begin an Korresolone. Their a well SKO-de group korres have been adhrbached in Kreuwelle konnel-exempte. Dut Par met mannen in much actualer.

says is his broks adjacent to be instant or and be adjacent the security instant resembler and mothe security instant resembler and the says soft inter of twees nonprecepting them. They are hand her no global or twees nonprecepting them. They are hand her no global or twees of the security of the security is a burn or global or twees of the security of the global show her most word the propagation of a serve of the are hand a percepboo – hereos, the name for her hypothesis.

BRAIN GLUE

With a steady hand and a hits super give one University of Texas physician is reparing demogod mitalformed blood vesalls in the brain and is saving his petients from brain damage and even death

Neurosurgeon Or Duke Samoon in an experimental procedure that he deviced, uses a surgical variant of the quick acting super glues to tam antificial brood clots and convert two kinds of brain cloorders

Instant a called intensivenous materimation (AMM) instant of namowing down to capitary networks and then wampanding to vigins, the brain orders, as eninherent defect, fows checkly maxisms draming blood from other parts of the brain Left uninethed. AVM can cause binding headachas, stroke even death

Another problem is called central overneura statia The carotic artery and of the brain two main blood passages, is parity enclosed made a ven. If it is sevend, antimate blood may leak mothe ven and state the brain of neosalary noumbinism.

When nu phone methods were not phone methods when no phone methods were policitized to the second se



Dr. Duke Samam and learn performing brain surgery. A bry bit of super plue brings ruled, even insiger Me. to some pelevits

CONTINUUM

NEARING DEATH

Knowing about people who have head near-least wiscore or other isoperiariose is no guarantee you with have one yournet (in fact, according to a University of Conhead control psychologist who has completed an isofernawstudy on the subject just the opposite terms to be true

Or Kerneth Ping and tea associaties made this disoovery after interviseing 105 persons who had come close to death through rilness adeatant, or in some Attempted subolas had few of these expenses and concustly enough the same was that of these who held religious bekels in an effort end of the near custly known of the near death often or enough

Most of those who had the opportunce had no such religious beliefs and had never hears of Databeth Kubler-Ross, the forsmost re searcher of near-death visions

That ruled out what Ring designates the "wishful funking" theory, that those



Mon ware right likely to feers "onre expensences, after we accedent

cities, attempted supple

He did third that almost half, 40 percent hist what he calls a conservement a sense of cleep peace a newskalation of their best a woon of unearthily lights, or wen a contropretation with own a contropretation with woon and hear operation of two that account we there have the second operations. Women had their come appendix aware of near-death expenences are note likely to have them Rang's own theory is that somehow people near death och eve an altered state of consciourness

One can search the been with a microscope and not find the rend, and can search stars with a tokscope and not find God ?

BREATHING FACTS

Though the cocumences are more common, human treatmore common, human treatmore common to common treatmore and the common way National Laboratory has conclusions about breathing and poliution.

The study found that, along with the six Nors of an the average solut Devaltes outh minute, a wide variety of particulae are imited and hear particles somen in the lungs for varying amounts of these particles somen in the lungs for varying amounts of the greater the chance of hearth problems.

The scientists found that slows have this to of the portclos come cut within a fair hours. Many are caught by the chia in the answirt and imissing particles onlier the umps and are gradually removed from the body in two phases after 30 days or the 300 cars.

Physicist Daryl Bohning and his sepontes discovend that most of the sinck ets in the study had no 30-day phase. Polaciants remained in their lungs for a year or longer

Measurement the larger expension structure, the larger period structure, the larger particities will stay in the urges. For example, some comparison of the large for two years the soludy discovered Wormeers inhibid stay inter polydymene particide tiggad with a larger structure of racidation—I at below hearth somethers. The perior



Micrograph of long taxasi.

cles were then counted over time with an ultrasensitive radiation distinctor

"The truth is that those who have neare entered upon scientific pursues know not a little of the posity by which they are sumparticled."

-Herbert Spencer

"Space is the imply place next to the full place where we live 1 below we will be twe to par nature and go them

- James R Amold

[Crash programs] fail bacause they are beend on the theory that with raine women preprient, you can get a beby a month " — Weinther and Brown

IMPACT SOFTENER

It is now possible for a locativit player who comise coating down on his head ellows or known by the henned up and starm to the tho of sortware to petit the of sortware postective padding made of Sonbofners. The postective patiently absorbed up to 85 percent of repeat energy 15 discretizes and interview for patient and the there is a percent of repeat energy 15 discretizes the energy 16 discretizes and put in Sontany brass pranthase. But the gradiest living of medical referst concerns its use for other on hard gradiest strain produce an image of the data produce an image of the data of the data of the how sched gradiest exchange how sched gradiest exchange for people subtring from grade needbaches. A simple schothare how need to hold the the data of the produce and the schothare grade needbaches. A simple schothare how need to hold the present



How classrows protects edg from harverer blow as har looks or

bothane mold, then hammers away with a mighty blow The egg doesn't broat

Borborhane is a plastic human feet it is sailedinguisting if exposed to fames and will heel if it is out its feethlike appearance and absorption progenise have drawn the interact of medical essaurations who are exportenting with its use in aurgoost implants, 40heed levise, and nonzaction use in including los. Entraises in excellent automing said. for the front cab uning case in the front cab uning case includes and a same said of the resture the utomation of unflations and as in conclusions used to said gas intertmany and taggetone during and as dampang autoparts for computer flaxes. Since it also also parts accurate energia (a) in etternation and table on the table behaviored and table on the table table on table on the table of the table behaviored on the table of the table of table of table of table of table on table on table of table ize the counterbalance in the pickup arm and as a tantable pad. And a submerrie i red with Sor bohuna would theamhcally be snotweet acousticely in visible to that it could es maps sonar delection — Web F Left

The simplear schoolboy is now tember with traths for which Archimedes would have sacrificed tris life.

- Ennest Nevas

Science is always simple and always profound. It is why the half druths that are tangerous."

- George Barnard Shine

LITTER ANALYSIS

What's in littler these disp? At 'beentin National Park in Caldonia, the 1978 camp delaterin notated six human selators. 410 pare di guos sis '55 toupest, nuo plash tintase di-teas, 22 cameras, 41 sieteping bogt, one balhub we church peet jech cameras, 4,028 lpstck disponsers, and more than 10,000 comba

Educani Lossepara to the volume and variety of like found on the nation's roadsides A druke for the Antence Beenful Incient Hat an Inghinegare 23 states workthan 1,000 fermesometime traine Hat Bernet Hat Schweit Hat Mitsel Hat Mitsel Hat Mitsel Logic II be need different Hyper II be need different Hyper II be need different Hyper II be

The clonarded dates at

clasted soi basas, winchan Binnts coat hangers thimg poles cuptosati doors pholographi, donieles, stratgioves podietooss, shock ings, stat, han shock ings, stat, han shock ings, stat, han shock ings and shock and shock inseed, bowing prin television also, phonest at modtosati dead printis- bolitosas pholographic, dool, toas pholographic, dool, toas pholographic, dool,

Buckee bave fixed Pail for I leads all other months for Illecing In June the leant ensure of debets is giftsonad. Poople under twomty Rise more than those dwo hearts.

Litering proklerates where kter already excita and where paople fiselino sense of ownership researchers have determined — Staart Dermand

Table Labers in the generator gap. Taalwe is signeriated an gaps. Each day you regenerate or else you re negenerate or O ske Electore.



Ibacturcle latter: Some Antaching richtrate among the gistrulipit.

CONTINUUM

RAD NEWS FOR BLACK HOLES

Black holes, those favorite J Tipler a theoretical physiclusion on refinaments in

quertum-mechanical attacts

Hawking had not taken into

ALUMINUM RISK

Alumenum, the abundant,



tracens of aluminum in the

- Marrier Arrohus

NATURAL GAS

tar in Minneapole, suggests



Artist's conception of a black nois. Now a physicist claims lifese

about the problem may 'defate some of the mythology surrounding this topic and pump some data into a field that has been filled largely with hot ar'

For one thing he points out, gases expetid by the body — hydrogen methane and sarbor devide — are in themselves odoriess. For another, the pases and the districtive down that go with them are produced not by the human body existly but by bacteria that lark princpaly in the colon.

In people with problem facturence. the bootens produce excessive smaunts of from termenting the segars in carbohydisates, such as beens

Medically he notes, the octar thrown off by the bactona could also be used in a sind of breath-analyzing di agnosis Metabolic shifts. such as cartain liver conditions, affect how the bacteries hunchon and even chairge the composition of the geces. This ocuid explain why pateria with certain incr problems have a dislingive holditous.

Covert this Levelt whittisecally suggests dioctors could use specially trained blood hounds to anell out the if!

In nave moments teaching can even be writikily waivy Thom an inportided cases, Levid says, of natural gas explorents along colon apstations where electrocal equipment was used. 'A speek at an inopportune moment can result in a high-territy blant. The science

With the rate of attances in research gas the suggests we could be wrinesaring the barth of a whole rate subspecially of messione. Subuckory

- Douglas Colligan



Diagnostialist of the Keste? One doctor proposes training plays the work to work out delivate adapting to discress desame

NEW YORK CAVIAR

Nake York Braze provessol France with its own wines seed chargeagene. So now it seams appropriate that the Lose New York madness theodd cause the utreaste status symbol cover

The science or one of the

the Hudson's major pollatant, are writially nontexistent in cavar obtained from the river's stungeon.

Hudson River ceviar is not new Around 1900 it was so plentful that 'you could get all the Hudson ceviar you wanted with a five-cent place of beet," Hansan Burm to



Russian beiuga cewar can cost you almost \$400 x pound. 7Me xecual of American causer can cut the price to under \$100

ecritifi pideal cavar prolacters has been expanmercag with too taken from stugeon in the Hudson Rvia. New York State's most lancous wderwity Although deprived of as familie hudson rocerly has be come clean enough to yeld cothe can and tak-egos.

All the tests we've done size that the role of the statgoods within the guidefines and the state of the state Drug Administration is set Amodel Henness Baren, a HP-generation cavar produce and new peedeent of Henness Cavar et Bigissecol, New Jossey Rots bare Bound that lexits of polyhele trick State of tools have Bound that lexits of polyhelm brock betterning called Butthe UB cears receiving decired that it internate basebased profiles there may be an an overhalm of profiles there may be an adverted out receive such as adverted out related in 10174 Humani-Gauna and others begins may whether it is that it is adverted about the Bouth and the about 384 a sound-half the base function control of the these fluxes of control of the these fluxes on control before.

Hansen Sturm expects the reestablishment of Hudson cavier may occur within a fee years. It tastes vary good he said — Stuert Damond

CONTINUUM

DISCO DISC

A two pound black disc that was originally made to keep barnocles and mol lusks off the hulls of ships may chamilatically improve specific therapy sachingues for cleat and hand-of-hearing chicken. to see how and where the foreue is placed

The hearing impained can also drivelop an appreciation for music by using the class. If it is wend to a starting system and attached to a focal they can dence to the musical intriferent they feat restortion. We assess the



Deal Links their out the Groot Disc Youngstors can holi integra themselves the withshoos from a reacher's voice, their endatest

Called an audio transducer the device acts somewhit like a regular serve apeaker exceptions in before apeaker exceptions in by preserve integrate the other or pressions and intheir or pressions can held install thermeetves the vehicles from a basehering

The ideal here is to use the drive as a bold for demonstration (fig profilations), both in factors to noise and inform The approach could arbitr a class fundament of the characteristic barware in it and in p⁴ round Traditionally the class listin spaceh by checking while space to y checking while space the throat or are row or by looking stimiters in class clines are popular in che cothecues

Several schools for the deal are separametring with the norument, mankated as Deaso Directly SecentFile Shore Newtons International, et Alem Souri Carolina II and eight week study conclusing this year at the South Caroline School for the Deal and the Stimut performance heated in a Street and performance the south of the second school becomes you would be mestered one syllable works.

Research on the disca is row going on at Brightem Young University and at the Wichts State University De patiment of Communicative Deorders and Sciences

- Robert Brock

KILLER WAVE

What's more than 100 lod tail, may luck within the Bemuda Trangle, and is cape ble of anking ships without a trace?

The newest culput proposed for the mystericus Bermuda Thangla deepperannoss is, of all things a kilo wave

In a sense if is the Parket Wave and it has surred up it a large compute-controlled wave flume at the hydraulics laboratory of Caneda's Natonal Passarch Courcel

Under certain conditions was don Preig, who heads the hystaxics laboratory the see boftem profile label, wrigs, and opurtercurrents all interacts to their the waves become sorted by ther periods (apeed) and cotching with one another

The result? A single while more than 100 feet high that baseds when it avoesds a critical interpreter with dev autamig results for any ship or brochwatter at the bie akien sent.

These 'exactle waves'

5

Mysterious and disputative 199 foot tigh episodic waves are the products of toles, winds, pountercoareats, and the new tolevar profes

Used to be obvisiblened quite rese, according to Floog Since they are balancely advantined preprimana and any any close ensuity of the sum of the transmission be sum of the transmission dedituble govern However the SEASAT sofering hous to obtain content to the SEASAT sofering hous to obtain the transmission of the SEASAT sofering hous to obtain the transmission to SEASAT sofering hous to openations the govern as and content openations.

Motiody known whether opticals eakers are at two hears of the Bermada Isarcele mystery. But a low horized and the ocean of Norway have been loand to be auch hostbede of episodic wee addivity that mame a number ormparies well not power for damage occurring modo those alsas

Bill, the shroud of mystery has not yet boon ententy perced. Even though Ploog data create episodia wwee a will in the Turne indoody has been able to explain has they get so high and shep, soomargly defying granty, before hey finally peak. — Soo factme



Subliminal persuasion is back as scientists research new ways to influence people without their knowling it



BY ERIC LANDER

Grossies aren't the ony forgative set on the Nor Claura superstitut The gat before a superstitute that the set of set or a superstitute that the set of set or a superstitute that the set of set of set or a superstitute that the set of set set of set of set of set of set of set of set set of set of set of set of set of set of set set of set of set of set of set of set of set set of set set of set set of se

In a signification of the second static second problem of the second static second sta

PAINTING BY SALVADOR DALL

trances. Other services may follow aut-

A move thosair in Southampton. Eng bild if Mosel films is autoincie earnot see hand in Mosel films is autoincien participation of the southampton Certains southampton for all motion relations (or participation). The relation of the participation of the accently shown utrainant messages do accently shown utrainant messages do accently shown utrainant messages do accently shown utrainant messages of themselves Oceans women icce weight at themselves Oceans women icce weight at mose that Mosel syn is a market manper

How can anything be accomplicated by whetpoint (seek) nothings into papera dark of flashing them into their eyes? Paulnesses growinners and scientists are alterneting to open a direct communication channel with our subconcessue by kking the object of unsubconcessue by kking the object of the subconcessue by kking to deliver subtiminal messages, so has in to fortil their they shak in timough the mind is back doer.

By telefroor, the larget of a subtravial messagie curver green to or necessare it to messagie curver green to or necessare it ine worg handle activities end commands in the unsubsecting method of deers. So entrais for the green two exects basenaties to store body justine reaccess to such menyelistore right two even basenaties to store the source with the disch compressioner right to After a fundy toothermal phalanemen.

DRINK KIM

Subliminal perception first-came terraining involvement on concessionness on the met 1603 when a first Lee. New Jaer and 1603 when a first Lee. New Jase week to offer the Assa withing field along a server to offer the Assa withing field along a server to offer the Assa within the segment field the Assa within the segment field the Assa within the segment of the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa within the Assa within the sector of the Assa within the Assa w

An identive was the social Nukleot has an avwithout of the social Nukleot has an avrespect has mapping has been been as a sorespect has mapping has been as a soder for measure was hand breetween the fits new reducing. Largers have the fits new reducing Largers have the sotart of the solution of the solution of the fits of the solution of the solution of the fits of the solution of the solution of the fits of the solution of the solution of the fit terms

Many propriorbagets, alternale by weap they perceived to be an assess on their productional infrace, additional and the method. They called for a material and taky meeting between the mass and the effective as stagnards. There was a spectrace the canadias anothing of sublemail perception from too academic fording has the canadias anothing of sublemail perception from too academic fording has the ability of a label adjective Uversity of London hordmass. Notifiain F Boom, aufford all an percentres took an uring the ocception notes that "an incredible amount of bigatry official plagues the hold

Hollywood in part for a lineary inductor dropped related to automain anough the behavior of the second second second second behavior and Law Registry as surgested as approximate the second second second second approximate and the second second second approximate and second second second second approximate second second second second descent second second

A spote of recent neurological and psychological experiments have caused in searchers to rethink. Wateriao theory — the models of how the brain processes the vast models of ballut information and the disamount of useful information and the dis-

 Besically a sound more two those used by disco DJs. Dr. Beckor's Black Box weaves a propared subirminal message designed to enhance honesty m supermarkets it's called autho conditioning 9

Fulling elements consistely booking and 4 Appointently them parts has betrue and elements, refers important loss of value attention. The real it reports to subcome attention. The real it reports to subcome isourcely. So they be available to subcome isourcely so that and and the parts of the metant of some interesting name or the metant of some interesting name or work it is conversione access the more .

Which should using inclument documents in model: increased a selfing sinver. For hamouth incluments and the selficient of the same is a suble instrument. For the name should be appreciated and the selficient selficient of the selficient of the selficient work in a Castate but he may be and the work of the Castate but he may be and work of the Castate but he may be and work of the Castate but he may be and the selficient of the self work of the selficient selficient selficient constant.

Ot course, in a world of billions of people and tillions of dollars, even triv changes in consumption of safety or voting can have a significant impact. At least in some quarters, the opportunities for using sublement through twent gone unnetced.

AUDIO CONDITIONING

King of the subfirmul encretenation and the subfirmul encretenation of the subfirmul encreten

The function because a subject to the provided of the set of the s

What lumber schools and churches have failed in recent years sub-transmomentation of the failed in recent years sub-transmomentation in the school was and the school of happeness. When we put a type is a sub-transmomentation of the school of the monthment of the school of the well with only ontrologies mouth of the monthment of the school well of the school of school of the school of the school well school of the school of schoo

Not all of Backins a potential chemis share his good inferitions Arrang those who his opposite and the mere potentians arrange for other and religious fantace specking to consist he world. But no cause for altern the good bacter says. If don't make away wisakation that is requested. I othoose those whose predicities and request. rely an. I'm trying to maintean a pute image in the application of a very potent lool

And proce to this equities, below the postimprovision sectorized from clients, other sumabouts in another than the postfrom the documents because below the sector beyond these barries and the sector beyond these barries and the sector beyond the barries of the sector beyond the barries of the sector beyond to be in the endposes that they and being "sub-these in endposes that they and being "sub-these in endposes that they and being "sub-these barries to sector below the other than the sector barries of the sector barries and process with the team inflate process with the team inflate

One user the MacCostph Methal Cern in in Gladdown Mesouri du agne la speek, wit Onni la administrator saño. Tantagi nou intrevenue duras ne halagine i servas presente using the referencia di an athantesing tage in the statt kurge hom a ounri de genetie buttis, i allo exervato basolver de speter buttis. I allo exervato basolvera (i and something a warre)

BUBLIM NAL SALES PITCH

Hal Backer may be the most outspoker proponent of subliminal technology for the sity normalism only one inmover years a quarter-century old tobool againet tabbing in the subcorrelations has begun to despoker

During the Christman season (2012), the true authors in Value waters in Report for a christman tay called Huser Ball mass (1996) and (1997) and (1997) and (1997) and (1997) and waters and the season of the season of the waters in the season of the result of r

Hollywood comfortably beyond the PCCs purvew here also alletinghed sublimring survis. The Exercise a move that procluded some of the most valent autience electrons ever included subliminal shots of atom/weig "death most" in the old prest to



The a party of the party and the party of th

A smooth whiskey is a work of art. A smooth whiskey at l0l proof is a masterpiece.

WILD TURKEY*/101 PROOF/8 YEARS OLD BEYOND DUPLICATION dream sequence. Cunicusly it slipped Warner Brothers corporate mind to mention the subconscious interipulation, and poly later old Warnersh admit bit.

Can ally of these grinings rolly work - Absolutely essy aggitud. Sheh president of the American Psychological Associa ons Division on Consumer Psychology "The contoversy has always been over changing peoplex atthicks That you can 1 do. What you can do is trggor a prior at table or predisposition

Buying paptom and social at a movie to cooperable behavior to a sublaminal advertinetitient about the products indicate work will be adving a nitrigrambri in a mover theater wouldn't work. A sublimisad in a harm move will be very effective Parity is because people go to the movie for the second parity because lever defenses are available against sublemail

Experiment advertising work mutet was even humber 14 analysis study found for example that showing the message barrows to be a straight of the straight of the heaveer increase single the the straight of heaveers increases protections and methods according to ball heavers dara at the University of Despins School of the methods of the sphelad over all arrent messaging will be sphelad over all arrent products of Lorance that immension supposedly dog-easi dog world, many corporate cannes would rather form a pack so that all might drive on a larger per of consumer spenderio.

Applying submitvial messages to the pothoal areas. Sheth says, "will bring more people to the poils. But it won't change ther voltes. They it get people already predisposed toward a candidate to achiativ and our and cast a ballot.

The propert is stagping theorem been days are fought and wern on veter turnout imagine I are party could tring out he subtimut well. Descency of the physical of ocube trigger accordation as a unless themposite with Weinghe That is unless themposite with Weinghe That is unless themposite with Weinghe That is unless themposite with weinghe trigger accords and the trigger accordation as a strengther the state weing the strengther accords weing the collabors the sciencing. Arrow many message could provide the issues to less the state of the second strengther paties and the state of patient is paint and the strengther could provide the strengther accords the state of patient is patient to second the strengther could be accord to the second to t

TEST ING THE PSYCHE

Babrimhal engineering: Kee most tach rologies is only as dangerous as the perton who puse ito work. Recently some wiry healthy clears for muse have come from of all claces the ermed longers.

Métary men tend to be hardheilded about newfangled ideas and Bweden s An Fonce is no exception. When psychologist UR Kragh suggested a sate minal Defense Mechanisms Sostro péctiselector in 1960.



officers were dubicus. After ten years of tests they were finally persuaded. Since 1970, administering the DMT has been a standard operating procedure.

The test consist executivity of pictures trained instantaneously on a schem. One, to exempte these a top stepping a volume and temp timeterned by a memoring tace of to one side by the test memoring tace of to one side by the test memoring tace picture is shown. The pilot cadets subconseculary trainform the image to prodict the boy. Their exact rotation reveals information about their lidence mechanisms.

Intercally good addenses from out to be bad credentials for flying As Krogh decovered those who demonstrated the strangest impulse to protect correstantly droppediout or funkted out or catelited ther arptaines. Alter three years not a single framer was full.

As a result of emplormenting tach a sciencing program out all'table ide disposed interneting sectorer in 1990 to how the science of the science of the neuronaux as approximation of the and the science of the science of the additional science of the science of additional science of the science of the science of the additional science of the additional science of the science of the science of the science of the force we also been and the science of the science of the force we also been and the science of the science of the force we also been and the science of the science of the force we also been and the science of the science of the force we also been and the science of the science of

Al Boardancies University in Dispandi Professors in Line and Alais Yee's incusing a move to flood agorialisticates with their owned registrawards to search the source owned to be hard. Science patients are only the source increasing central and alarge the source of the increasing central and alarge the source of the line opticate that acclusing see the lainer owned with the centre's group but the source parket within centre's group but the source three addressing and has the learner attetive addressing and has the learner attetive addressing and has the learner attetive addressing and has the learner attetion and the owner attribute.

Proteesor Loyd Breatman has been uung automal technique in applications of Presiden psychology at New Yol-Unweaky and a Wonara Administration hospitals. Overlaeight warns who neceedable measure shall not access lost mee weget that hose who access been applied on the second second phrones. Materials and even some lear statement charens Goldean

Despite His success the professor dessriptions forward to the day when all toubles will be solved subliminally. Tim unably about the deal include so a weight watches group or antemoking group professing trup Bell you have to be very cafet about the mental health molecations.

Silveman warns that seemsply bridge messages semannes produce derigenous results. One patient reacted widently to the "herriess message "PEOPLEVALING." Her sadate father apparently had purcontrauppende in



SPACE

A new grass-roots movement may get America back on the taunchoed

BY TRUDY E. BELL

verse and you'l see why so many Americans are disguated with the state of our space program and also why so many of them have decided to take maters who there are haveds.

This table follow between service and the service part here and here the operation of the service and the Agenese Plansk-A probe will cericle back doesn't part Farefor-Research probe will cericle back doesn't part Farefor-Research probe will cericle address the service and the service address and the part farefore address and the service address the service address and the service address address address address and the service address parts address address the service address the service address address

Though the Carter Administration and many setsions of Congress free conscient advance implomenon and development to be too costly a Junut other restand have counted their provides differently.

 France and West Carmany as still hard at work on Assner, a low-cost booster that could take the Wastern world's taunch business away from our structle long before hardwy's Comet arrives

 Ohma and Japan, in a port versus: hope to orbit two automates for a full week by the end of 1986. The launch versels for this femole mission will be China's Long March 3, a three-stage booster modified from its CBS V4.4 KDM.

 The USSR in time for the twenty tith armiversary of Yun Gagarn's flight in 1961, will probably

PHOTOGRAPH BY CHRISTOPHER SPRINGMAN

-51

ennounce its plan to send a man to Mars before the decade is out. Meanwhile the Soviet Union is 12-man specie station should have been in continuous operation for four years.

The recry in all this is not simply that the United States once held a commanding read in space and is how loang it by default. Our government lost interest in the space program just when there was a re surronce of copular support

According to an anti-situal survey candocted since 1870 by the Najacra/Comon Research Carriar at the University of Christop the support has instauded utstrateduity strate all the low results application this surface and strategies and based in spontang on speed dwikepinger NASA is beenly underkinded to according to about grift the process balave has NASA is beenly underkinded to according to the strategies and the strategies

Accompanying this alticle is a directory of specie environment (mps): These organizations have profilerabil in the last three years. When one such groups at the LS-Society squambered their energies on themas significations than and we learning new sophesticated topics to make their case head. While the environmentalists and integer backs are not become a broad-based movement capable of swaying public policy and if read be electrons to promote their cause

The divertary covers 60 Amongin paperintential groups and a street mapping and intential groups interest in secondary and groups indential and anythers were groups indential and anythers were finded, they would be organized and And them included all the organized behatikeling and anyther anyther anyther inter-groups of artimothers balance and the her fail indo this category – invadid nu clears (200

If we look at the experiences here serves accentering tradicates as a server server and the server and protectaces are accessed in the easier days of another but the others groups at a provide we be built of the server and prodominance in the last the years. Furth the thirs have been unumed anne either have allow Charter down and the server allow Chart and the outdeer profession of server history because within the years.

It isn't only new groups that are exposiing but new goals and tackes: too. The obtait space whereasty organizations are educational, they amply hold meetings and epompor events to keep peopler in formed of the issest developments and to amounce new results from space studies Some of the newer organizations, however, wern bent on taking the space program into their own hands.

Several bodies, such as the Space Souker Institute the Wold Space Foundation, boule institute the Wold Space Foundation, are funding that own research on the learningcrail and social developments and several Others such as and development-work that sedaws little or check and water Others such as the Space performal path messeum on worknesses performal path messeum on worknesses

Nexestion the accent way the first obtained positical action doministical. (The perturspace instainty has had MACs for years) the Carrogarine Space MAC was been builded last Merch and was followed in Ney by he Clinteria for Boace RAC. Body was estabalised in support the services protationaries of boace RAC. Body was establisted in concepts where a nanowinary in fiscal in concepts where a nanowinary in close would decide the surray.

The decision to once the political areas is a functionantial dramp or family for the optice moviminant. Bysical information groups are optimized primarily of sourisfalls and costners listic final most of their leaders base costner functional information of the communities. The source flat community limits in spuri functional loboying tacks in Bright Public observations in the Com-



CMNI

preserval Quarterly (April 12, 1980). "One NASA spokesmen text that coerclate are more levely to produce studies than [ka] cell a Consideration."

By contest, many of the antiriometric triat issues come from the ranks of over ranks advocases and the rail-Mathem War orseaders, they were experimental in paities when they sock up the conversioned by when they sock up the conversioned clause. They provide a model the taxes organs must learn to follow they also to be efficience, and the space activities are detingents. It was

The records of their decisions are sandaged becomes paperate. Thicking torum imporation of the same set of the new born same set of the same set of the papera vector same set of the same set of the same set of the same set of the same papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the papera vector same set of the same set of the same set of the papera vector same set of the same set of the same set of the papera vector same set of the same set

The tool years of pause and bagning to place the location of the antenue and envyourners in revented a work index of dealy they are using of the resolution and enroph were an as Baaks Walk. Studies and the Popterior is usaked in New York two only a function of the resolution of the only an endage short and a dear only and the Popterior is usaked in New York two only a function of members. He University and Arthy and Dealer organization dam's Commentors All result must be dealer for the short of the short of the solar throady for endage.

Many others are working hard to stroot new converts. In doing so they are expenmenting with such cophysicalised facthniques as threat mail appeals targeted to such normally unlapped groups to women and the street).

This work of the ortical challenges the ing the space advocates CPV years they have peoplitied single to one another and have aimed there arguments moderlingly. These are many response to device satisfies of which only in every twe suppail to any particular constituancy. Space groups must loar no select arguments that will are peer to a green audiance. not just to follow converts.

Many space supportion an much like the astronomy of part certained who recorded on oncertaintic strends who encoded on oncertaintic strends and and a wast to certain than the maximum that is wast the color more intering anyneared to unoted millions as nothing asyneared to unoted millions as nothing anyneared to unoted millions as nothing anysed carrying in many bareful good were visions of space colorises when childhan board maximum in many carrying and board maximum and when dwindling and polarism as of supplies were dwindling any oblistory with compare net wereat?

The spece advocates must make it clear to many others that space is a resource.

The Crown Jewel of England.



CO'S Seals House of Spirits.

one that can dreadly enrich 16 on Earth Unmarried satellite can warn of copy deartorying flows, monitor politicen and heap locate percesan and other useful meanals Manned tobar-nergy satellites can re---place vanishing oil, and there are not stored of metricals be retrieved from the mean and the asternatis

Space inclusivalization close not ly in the bace of the limits to growth' it makes them obsolets. The wase use of space might help us set our earthy trouse in order. Space interest groups might just to able to necruit the allest they need if they can remember that the neal issue is human survey?

Some of the envirol space-miceosi groups are working to meet the challings provide an working to meet the challings the two patheail action committees. The sample were bounded in patheat to form coalitons cambined by space development Apother example is the public needs the Accesting to L-5 Stopping Indevelopment Accesting to L-5 Stopping Indevelopment Inon engaged in Washington policies in which growth of common goals.

Three policial efforts here just permitbased values profiles the september to the function of the set of the set of the set of the policies of the space of the set of the set of the space of the space of the set of the set of the space of the space of the set of the set of the space of the set of the set of the space of the set of the set of the space of the set of

But if here organizations are to success invertiding our space program they must ownonne another proteins Space deals with abstractions with the tuzue with long time scales and with an emissionent South must ownitised that only a few dozen human beings have, ever expensioned Space is cognitive if a not in the guts. The origing are to make it real.

"The environmental people can take you down the read and show you a polluned met, cays Counting Stadd, farmarly of the National Space Institute "UNICEF can let you hold in hungry ballsy. The space people can only robus you a Dicture."

Portunately David is not the only perconin the spatial community with excignment internet to premice concrete image. The Premising Security Burnalist receives protein Advised and Burnalist receives proamm on task Needland's Wagao F image of Saturn And Burnas News of the summonitoring synaps. There is a server of owner-matter to gat our acids againter of where the full is siturated as they autipate on length excepts and in a server spatial engine signal hearing and the server in the meta-problem with the server. Set 10 Min.

Whether than efforts will have any effect

remens to be seen. But model asaders of such organizations are only too aware that the mills be luming out After Wayager 2 patient Saturn this summer, liner may be no U.S. spacectrill vising any body in the satur system until Calver goes into other anound Jupter in 1987 – untilses Congress can be persuaded to restore a mission to the Haley a Comment in 1988.

One critical lactor is how seriously legations will lake the pape-mission (group) Mary large even the most serious promoster of space development together with Tekhos, Together between together and other catalias. That mage events and other catalias. That mage events the event series and the series of the method arrong the paper events and the method arrong the paper events and the method arrong the paper events and the paper example.

A new professionalism is emerging in the enzers space groups. The Planetary Socety and the World Space Foundation are both field by planetary spennists working all

 Space-interest groups might just be able to recruit
the alles they need if they can remember that the real issue is human survival

Inter Jef, Propisson Laboratory in Passdens Others hashed by expressions accentation concerning an industry in the Campaign of Souties Project this Space Sentement Souties Project this Space Sentement Net and the Sumationergy Council Press Terms of the International Key Council Press per encouncil and to be table and with our per encoun collaborating with the research

"We le beeng the torrial machiney being let up between he mejor groups to contribue that attempts and constituences. Stodd says. These elements are beginning to coelerce, larging the foundation for a Sena Cable-type movement a dep and from out.

Al least a closes of the precipit restores groups have solut to operating their information forte information of the automation and which Space releasions. Also device new tok Section and the Ad Hoc Court evaluating Committee on Space (consisting of eight of the largest professional and our come groups) these stabilished or are comting up networks to keep local groups intranse of activities in other regimes. The best proof of competence, of coarse is effective action. The space parameters are new adopting techniques, that minor the enveronmentatiske common hist movie the enveronmentatiske common calising petitionen; they are letting up commenty action programs on campulate and Socie Week guests in rules.

Instantly terms of the modificities takes to orbit an of the sereptice comparises, which stand to benefit insol inmediately takes that in the benefit insol inmediately of the Comparison to States takes that has devided to such a tradit processing of their business compared to circl-existenand defines compared to circl-existend defines compared to circl-existend defines compared to circl-existentiate comparisons would be regar to take abare conflictents the ward incoke the busilut to got hem So the space incoversation in the take takes the space incoversation.

The industrial "brick wall may be the toughest obstacts standing in the way of the space inoverrent. If space supporters carrier(bance the increasing/siggistion, however, the componies may oucciry rates).

The word thread to the place popular in the construction of the place popular in the construction of the second second second to intercompare the second second second second models and the AMAM serve (Freq. In this book intercompare the second second second second the shall head as in your are a spacetion of the second second second second second to book the second second second second second second the second second second second second second second the second se

And low pares has now the might be take that methods have been been and routine in 1961. The astronuuts tyring here realising on a diright and and the rowski old A cargina coaterform a truttle fight—namentar that Apole 1 ended that Apole a the angle acceleration and shock the public so bedy as to belouter their that Apole 1. I ended in a calls the influe public so bedy as to belrouter the shock the public so

We have put writially all our space eggs into the shuttle is sargo bay. The shuttle is our only major division commitment to space, and it has been lead alway only by shinging of her program. A deneter with the shuttle could put the United Space our of the cristen space between allogether.

The space advocities have taken upon thomselves a heavy burden. It is they who may finally determine our nation's rile in the future of marilend

For a list of groups that promote interest in apace, see page 90 00

FICTION

Trees from the seeds of discontent were springing up all over the city

STANDING WOMAN

BY TSUTSULYASUTAKA Translated from the Japanese by David Lewis

steved up all notif and to province in the menalinevia tertainment piece, capable dogpillar stands next to the

stories that mobil do bern or cuite large for a monopol good it can't be helped

As to whether I have it in me. harm or good. I do my best not to brik about that if i wrow to withit seemed to be meat

The morrana sussions burt Maybe the louid tertilizer abmy eves as I slipped on my scroed by the roots sunk deep wooden closs and left the in the ground and passed on toss the first meil truck would pone. I turned my leet toward Itera you gave them children come to this park, a thing? I slipped up today Hormore eighty source meters in unit to bring my breavi " I seet dentral district. It is quiet here oven the scarty proen pro whed by the ten or so more as beads tim. "He looks exactly four Poor thing, he died right

short slory it was a trivial on broad. I thought My favorte me with large black even and These days you can't write doopvilar with buff colored fur, the follow myself ' the man That swhat linki mysell while I had ustileft when i reached the made into a doop far when he takened be manuscript with a pask, the pround was down, was those Hearn't was seen paper ofto and out it into an and there was a fant smell of ham? Between the haberchlome. The eldeny partie- dischery and the film shop on

Cooperating the buff post

They'll gat still about any

'You brought him some

'Actually, I kept a doo like The liquid-femilizer truck dogstlar's neck 'He was

> lits fellow? that one was yours?

"Net, he was our pet He name was Harhs New Pere completely vegetzed A beau

like the dog I used to have The doopliar looked up at

Mirybe they came from the

"And the dog you kep!" the elderly men asked "Where is "Our dog was named Buff,")

asswered, shaking my head entrance to the comptery on "Yes," I rooked, sitting down the edge of item when he wan

PAINTING BY VICTOR CLIPSA

ofter he was platted. The fertilizer tracks

No Fortunately it dight much matter

The elderly man situlaid the dogoillar s

"No calking a dogostar by its original

plied casually. Ostnit they say extend the why they lose their names when they be-

Wall yas Just invel little things

Her managed to suppress a similar

Howered my exits ashamed of myself who shill continued to write in such a world.

No I loid him after boking placely

The ekterly man continued stroking the cloppillar Alter milong while he spoke



might be listening even here on the street

I changed the subject "Do you live near

The you know the beauty perior on the main attest? You taxt in there. My name is Hyama He nodded at me "Cotte own

I gave him my own name

I don't remorriber any writer named Hyama. No cloubt he wrote under a pen name I had no miention of visiting his three writers getting logether is considered

It is time for the mail truck to come

Taking plans to look at my watch 1 alood.

He turned a sadly smiring hace toward me and bowed slightly After stretering the degoilts's head a little Tief; the park

was only a noiculous number of passing

Sometimes I come across a calpillar that come a cathee New calplians look al my vegetzed with their greenish faces stillly grow branches from their bodies and put vegetized - they don't even move that

Maybe I thought s's better to make

trees, and ranged alongside those trees a a manoday This monpillal wears a postlegs have vegeazed because of its frou-

I approached him and held out my en-

Registered mail apecial delivery

The manuflar nociding plently accepted

I looked around quickly after paying the postage There was no one eine there I decided to try speaking to fairs 1 gave hem

Than, after running his owes around the area he prevented with a sour look." Won't do to go saying unnecessary things to me

Even me 1 m ript supposed to answe

Terevistal taking solution intermediate When I wouldn't taking tooks at lengt powers - 1 parts and the pays low Weats mene I got hard by my book. Because a postmars pay salay at low. Wen a dark look, he period by my book her would be mad to him. These gays were the same Just for letting also atmic completing adout too may Davis kines that "The salaw me

member this one because I gave time alo of must I continuou the other one. He was already a mantree when we moved here

Wash I that after one a chief clark

He nodcled That's right Chief clerk

"You don't feel if their much The replied gif expressionless Anyone whose medinics amarphar boon becomes expressionloss." Even I have I we poton pretty particle, Notiny in tool Reel Twings but the way I think too. At hert I was said, but now if doesn't meran't Tuassaid, but having but have say the wegetiang para basis who uter their tool.

Ho stared at me with lighters eyes he was probably hoping he could become a mattree soon

Tak says they give people with ristical sees a lobotomy before making them with manpitars built duth right that done either Even so a month after 1 was planted here I duth tips approverse.

He granced at my wrietwards. Well you beter go now it a wimpet sine for the mail tack to covid

Yes Butstill douldn't leave and thessolid uneavely

You the manpilar said. Someone you know clich twoently get done the amanpillar did they?

Dut to the quick I started at his face for a moment, then nodded skewly

Actually, my wife

Hmm, your wifa isin?" For a few momentaria ha koganaed me with deep interest "I won deetd whether it waan I something like that Other wise noback/ wert bothers to bilk to me Then what did one do, your with?

The compriment that proces were high at incrusivework gui together than the term at the but bits processed this government, together that the experiment of being that and then that the experiment of being that were not that a violance on the time to exprand on the with set of of the match lowering from the actions towards the assembly heat were next to the hardward the assembly heat were fread to the hardward twee.

Whith the place in the dowed the kytic a table as it moveled any the potentitice of the buildings and the score in that area. "It is tarify preceduative the score in that area befor? Hexpanical his eyes and looked at ma searching? "Sourersh gang to see the are you?" It is belier not to see the too alker best forther and for you. That way you can be for force if were

Tarrey (Post

Canon has a PalmPrinter for every palm.

Now you can agriter your workload anywhare you work.

th gives you chica, kigdble pointport of plen paper lapo-adas to read and while or Plus a tophy visible to dept kisplay, A jue matery, lao. Evisit a profelive comparishini for the tape. And now Caron official you if choice One right for any pockations

The popular PS-0 and featurepacked PAD, both with acchargebie NGd patterns. The opsi-efficient P3-0 which curs on regular period. batterns. On the new super-compactnetargebie P6-0 Canon Bann³httees. Thereis one just

Ganon PaimPrinten. Thanks one jus



Curate US 4, Inc., Ore Caron Parts Later Sweet 6, 1992 No. 1992 No



"Your whe?' he asked his voice luming

"No Bo far nothing She's just atlanding.

Taking a few wavering allege as if

Thinking I d check In on my favorial

mysell Thates no balling who must cau Delying my own voice screaming. Don's

and rased my voice

"Michiko" I velled right in her oar

smie an her stillened lace "Mmm I m

"When I these about you I can't skeep 1

Standing jant sably of their bad. She



We this seeing his gradually grow more improvisionless, it's all the more alisolating for having known his as the was before those keen insponses, the bright invacity the not full extension

"These people I asked her running my eyes over the hardware store. "we hey good to you?"

Well of course. They re kind at heart Just once they told me to ask if therein arighting I want done. But they satilihaven t cone anything for me.

Don tyou get hundry?

Shi shock hir head

It is better not to eat

, So: Unable to enclute being a manpflar sho was hoping to become a manipale even to much as a single day favor.

So please don't bring me load. She staxed at ma "Please torget about mo 1 hrik certainty even whole making any pail schar what I m going to forget about you in hopey hat you come to see me but then the sodnass chags on that much longer for both of us

Cf course you reinght but -- "Gespisang this self that could do nothing for his own what having my head again. But I won't forget you i noticial the teams came. I won thoget Ever.

Which i raised my head and looked at her 40km, the was galang sleadly at me with 49km that hed loot a tide of their hater, her whole face bearing in a family angle like a cerved image of Buildha. It was the king ame I had ever seen her smile like that

Patti was having a rightmare. Ab. I tald right this on t your wale asympty.

Figures the had been waring when she wat anothed had become tembly dinty and filed with winkles. But of course I wouldn't to allowed to bring a change of clothes. My types tasted on a dark stam on her skirt

"Oh this " she spoke fatianingly looking down at her skint with a contused air. Lass

Inglit two drumks playad a prairik on me The bastandal. I feit a fundus rage as their infurmanity if you put it to them they would say that proteinly whe was no longer busing. I write in memory when they ded

They cont do that kind of thing! Its against the law!

That's right But I can herdly apply

And of course i couldn't go to the police and appeal extrem II i did i d be tooked on as even more of a problem person

The bestards? What did they — 1 bo my Ip My heart hurt enough to broak. "Did it bleed a lor?

Moon a title

DOes EPLET?

It doesn't hart anymore

Michwei who had been so prousitierlose now shoekad pust a linte sednessen her face 1 was shockad by the change in her A grisse of young men and women, penetral high comparing me and my wife passed behind me.

You'll be seen inty who said amounty



Theg of you don't from yourself away

self-contempt I don't have the courage." "You should go now

When you're a mantale. I said in perting 11 patrice III get them to transplant you to our garden

Can you do that

"Ishould be able to Inoddad liberally" I should be able to

"I d be happy if you could my wele said expressionlessly

Well see you later

It d be better if you didn't come again she said in a mumur looking down

Tknow Thet's my maritian But fill prob ably come anyway

For a low minutes we were slord

Then my wile spoke abrophy

"Goodtrye

*Umen

I begat walking

Whin I leaked back as I rounded the corner Michilo was following me with her even abilitation like a graven Buddha

Embalaring a heart that seemed leady to split again. I walkad it record suddenly that it had come out in frant of the station Uncome suitly it had reterined to my usual walking ocurae.

Opposite the station is a small cortes shipp I always gate order Durch I want in and stat claim in a corrent booth. I extend online dimining it black. Und here I had always had it with sugar the bestmars of highlights claimles confine second my body and second it mascomissady. Fixed mov on JA always david if black. That was what i negheed.

These students in the next booth were taking about a one who had just been arrested and made use a manufar

Thear he was planted smook in Pierrich die of Pie Ginza

He loved the country He always lived in the country Triat is why they set it mup in a place live that

Seems they gave him a kipcourry

Which has students who hield to use force in the Diet protesting his arrest – they ve all been enrested and will be made into mappilars too

Weren't there almost shirty of them? Whate I they plant them pl?

They say thay if be planted in hort of their dain university down both sides of a street called Students Road

They il have to phange the name now Violampe Grave, or something

The thise snackered

"Hey let s not talk about it. We don't want someone to hear"

The three shull up

When I left the collae shop and headed home. Traalized that I had bogun to feel as if leas already amongliar myself. Mumuring the works of a popular song to myself. I walked on

Tatti a waysicki margahler thui loo ate a wajacide manpiker What the twil low two of us in this world. Enrol grasses that never flower DD
From the family who brought you The Book of Lists, here comes The Book of Predictions



It is a measurement of chronology This chronology records investis that will, or must be paper in the next 50 years or so. The events that will occur — or an most fixely to take place — are werefar that have been achted weld, like a points event an elocider, a tradeeply cycle, on antiversary. These more of least suits things will be

PAINTING BY RUDOLF HAUSNER

indicated by two stars, ** All the other

4-boliovable? Are the lorecasts made for the years from 1982 to 2002 possible? Can these predictors some true?

someone told you in 1962 that the 20 years pills supersisted paymenter planes, and lest-tube babies, you might have had doubta. Had someone told you in 1962 that of DNA satelife broadcasts a Polish pope an Israel Jerusalom a relatined U.S.

the recent past. Preve is no reason to distubeve the advent of new mitacies ad venices and charges in the read 20 years

A massive parth muske hits contineer (rec.)

· Automobile gas rationing takes effect Everation the Western world

"Span heats the health World Cup Soccer

"The city of Juneau is replaced by Wilce

. The USSR puts into operation a partide-beem appelerator that pan protect the nation against any guided missile attack

. The LEGA acteves clearcut stranged reactions' reaponently over the United States. Japan combined

· Saudi Arabia and Libya lose their or wealth in each nation a democratic form of

. With the critish of the U.S. stock market, a long economic depression begats "The U.S. spacecraft Proview 10

. The first space telescope, which revolusorezes astronomy, is launched

"The Alcan of progine from Alaska routed through Canada to the northwestern

United States, begins to deliver its crude

"The XXII Summer Olympical staged in os Angeles gors on Maybe

"The United States elects a pretocient . The risk of nuclear war paaks with pen-Yal Europe and the Meddle East presenting

special dangers

1985

· Israel fostally amends the West Bank

· People work a four-day 32 hour weak

· Nog tarrely hornes have installed flighbrand of torist uses a sound track that

· Your home television set has 300 chan-11480

· Using expensive digital partheagers if matt you are able to play any instrument. · A national health insurance goes into et-

. The U.S. covernment nationalizes all

Gaschol totally replaces gasoline for use

. The first nomicientist passengers are parned into orbit by the space studie

tomer launches a satellite mo space. The company s first ousioner is China.

"Hakeys Corret scens though the sloes once more it is most clearly seen in No-

1946

. The Paciple's Republic of China plaper an astronaut into orbit - and becomes the

. A computer program bears the world chess champion

**Colombia hosts the three on World Cup

. The majority of working people are on

"Sanan Sener, who was corrected of

1987

· Nost countratine are upon to television

· Your television screen pan protect three-

· A bottin of hard liquor costs \$125, a dou-COMPLET COSES 54

. The Linked States localizes manuana Navar store or tobacco shop are Connoisseur Colombian, Sente Marta Gold Primo Maxcan and California Sessential (Co-

. The British sport of cricisot becomes a national sport in the United States

· A computer chess champion proves superior to almost all grand-master human chess players_

"The bicentenneal of the segning of the U.S.

Since writers in the easiern United States

· One of three California piles - San Diego reajor fault hree

"A locust plague sweeps the eastern

. The U.S. public school system collapses

· A woman priest is ordained in the Florman Cattolo Church

. New exempto experiments prove that Emstan's theory of relativity is partially

. In South Alvida, black resistance increases as black leaders report to urban lenor The white government makes dramake concessions to blocks in social and

. The track record for the male is now 3

· Woman compete in the Olympic mate-

· A 1000-seek jetimer has its maugura

· Most laborers working on assembly lines

· Weset Govenany and East Germeny tight

. Both the United States and the USSR incoast of the Strat of Hormuz. The incident

· A bemanist group gets its hands on an

**A U S presidential electron is held

. The median age in the Unacid Status is

· Roger Maris's home-run record of 61 is

· A computer makes an original scientific discovery and its program is nominated for a Nobel Prize

· Because of excessive unemployment caused by increasing automation work and Palasian dissinging regor population . Disbeace have purifys implanted in their

1990

· Spenish yons English as an official lan-

· Parts of Texas and Galifornia aplit off to

· Vogetations cultrumber meak eaters in

· Most large corporations provide paid

· A mala astronaut in outer space shoots

· Ewary automobile is equipped with mi availance electronic gadgetry

· Wret telephones are popular

. In the past ten years, heart disease has

as they require it

· Artificial evenight is invented for block

Chemicals are produced that arrest seniel.

is overshrown by a social democratic too

1962

The common cold is treated succentrality

. The first human is brought back to kie

. Twenty-server percent of Americana are riterate Of had been 1 percent in 1992 1 . More than 90 percent of the bouseholds

. The average secretary parts \$25 COL a

year but inflation continues to sour

· After a U.S. slock market crash and major



comes on the market. You can buy an elacthe baton and conduct a recorded or

. In other to protest the nong rate of serves of mucleor "acordents, at several

1997

Most U.S. companies install looker rooms

1995

"Israel celebrates is Much anniversary of

known planet in our solar system a poetion "On December 01, the United States turns

"Maw then 600 million people are living in absolute powerty. More than half the

· Most couples we together before peting

· Computer printout terminals in every

"Presuming no preventive action has been

· Cocarne is legalized in the United States It is sold in house shops packaged in

· Almost all allesses are treated place tromagnotically Body cells are fricied magnetic fields. This drugless beatment

Most new autos everywhers on Earth use alcohol or liquide converted from fave and fonstry waste. On such fuels, each car gets 100 miles to the getton.

 A shortage of oil atarts a large-scale mgistion of people from cold parts of the world to warmer parts.

 The word's occars are being used octensively as a source of minorals and energy. Consin-Roor and subfloor mining a accomplished by submitted systems and remotely controlled totals.

Week Harr: ISD school of persons come solarment leaders and the solar control person of leaders y Alex Deltes (Lyclor A Johnson, 2 Experiments of Statt and others) of the U.S. Joint Chiefs of Statt and others) of the U.S. Joint Chiefs of Statt and others of the U.S. Joint Chiefs of Statt and others of the U.S. Joint Chiefs of Statt and others of the U.S. Joint Chiefs of Statt and others include and person seasoners Geogen C Wallace and protobly assessment Geogen C Stevenson. Wallar Renther and Others Stevenson. Wallar Renther and others "AL IS avecated in Indian I Reld

 50 000 people are living and working i spece

 The first children are born in a space colory orbiting Earth

 An incorplanatory ship brings back to Earth an alien virus that kills a tenth of the world a population

2002

 If exuption the early stages, every type of cancer is new curable.

2005

 All the walls of your living room are wideo somens. You can activate Dall an Environment and have the intervent of the Tay Mahal proposation of the tay and and activate the some will feel you are inside the masseleum.

2010

 A robol can now cross a busy highwis, wrhout being hit.

 Facitive concluses shill client their teams from the bench, but their teams concert of robots

 Because of worsening inflation the United States issues a new currency to soften the impact of high proes. Many realistic people turn to barter.

 There is an open market for used and recorditioned human body parts

 An artificial brain—as complex as the human brain—provia to have constable thoughts and emotions

 Automation governments in various nations are using mind- and behavior control chemicals on their subjects to suppress descrit.

 The USSR attempts to change is helony by using tachyons periodes that can carry information beckward in time

 The bias pope of Rome introtors the ostatel sent of the church to the holy sity of Januariem.
Interpretational termination, employed on.

 International terroratis, emproying muclear werpons, deelroy a major world capital. This leads to police represent, which in from leads to a worldwide clearmement contributiowers the "I never knew gold rum tasted like

That's the reaction that's made Puerto Ritan Gold Rum one of the fastest growing liquots in America today. Its the smooth alternative to bombons, blench, Canadians – seen Scruth.

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It's because you h tasted upid rum &

No wonder over 85% of the rum sold in this country comes



PUERTO RICAN RUMS

Partine Light Ramoof Puedo Roo, repeat white Puerto Room Ruma Deal, 094-1, strat Assaurch the American N.Y. N.Y. 19218 bit The Commonwealth of Puerto Room A new film re-creates this terrifying best seller of sensory deprivation



the isolation tank was nothing more then a cottention half filled with a 10 percent adulter of meaning within a which a feeling body the temperature in which a feeling body



Seeis means growty... A volumeer care by sed Jessap weet her to the EEG and EKG... The subject found in derivers and stance....R exerced that deproving a person of advance all sees were an exposition whole new set of informal expositions. Their thanking become holds: and puthered ... All way rate, Jessap dooded to lake a short of growg sets the risk transpit.

Buil Room das consel Allered Gener, Ay Facely Chapalane, Chapter () 1997 All Basela Persidenties des Augustes by Annessen and Annessen Annesse autoparties des Bal Bale All region automate () 1964 Baleren Bolegen becauf best Bal Alleren Baleren () 1964 Baleren Baleren, Reseptored



He saw an mage of e cluster of neurons. tineping neurons, scheity curled up in postures of sloop .. Theise wire stored neurons, stored in some bank of our mental computers, perceptions picked up some where in He and selectively likered out of our retional consciousness, the stuff of chearra. They were waiting to be activated to be fired . "If there is an Original Consciourness ... it took in e lot of sensory apput, and that input is slored many somewhere in our mends in the quantitable form of memory. Memory is energy it deparit dauppear ... There's a physiological twee to our center consciousness. And Finiteling you it's somewhere in the ambie system . I think thet inve sell, that original self that first self is a road merry quantifable thing tangible and incamate





At two o'clock in the morning. ... he had is psychedelic flashback. He make in a bolt of amore under the improstant that arread animals were enzwing all over him He three of he blanket and saw his body week were about to break through the surface.... His chest surged into massive reusculature and a second later strank (down to) some curious little arbored anithat ... He music his way carefully to the bothroom ... All the while, his body conanued to numble, grack, and buckle, and which he saw reflected in the glaning yallow ary kroapen of herself, fickoring one after another in the minor, none of the images lasting more than a second ... The whole lence couldn't have lasted more than



Inside the tank, Jaseup, white and naked. by matogives. . . Tim in some kind of primeval timespace- ... It's terrificbroad-leaved tracecal everageant, pain trens, bareasa trens it's total new completely locused, utterly real, no hallacene box, I feel I'm actually alway and inside they landscape ... oh my God the birth of man ing, that's it. It's a hant, they're harting something--it's me it's me they're huntere . I'm dawn. Ho's beating me with his lagged churk of laws. . . No pain. No pein. He's devourng me.... If's my principal me devouring me. I'm returning to my origi-nal mp. Unbelievable sensation. I m rt and the me Tim hunting Tim lobing. Fin eat ing ... Pure, utimate humosr, Unbridled ristural organize hanger The d The near-

Uccup was past christing cut of the tank, his face staring up, his cheeks and mouth wet with rod blood, sineward where he loweled his face, looking for all the world as if he had ravened a carcase.





Rater Webster is on Titan, but na one knows how he got there



BY BOB BUCKLEY

The reachance enter the character paclage, worm and dusty from their labors. The flat least of their neckee pack are not and colord with hand mind suffix and werning sontace, on the wells are chartering frantically Each mise has been barbed in robasben at levels far lospond what any unmotion with an lospond what any unmotion the times could be due to be

I move behind an abendoned contained and wait saling myself that the worst is now over. To actually make the decestor was the most attlecit part. Now Weil, there have to be surprises beyond it terrifie expectantly while my heart drume encoungement and block theories in my age.

The doors are opening, bright metal peeling back live this potals of a prissurced flower Air sights back the contours of my body armor with tiny keening whopen—warmings not to go on But warnings are not enough, not this

PAINTING BY DON DIXON

I slip from behind the container and ted exit ramp of the transport station to No matter it is enough that I know

cheers me. I might actually live to reach it

But, no I have not come here to rail or visit that no man can errised it or great if

Yeliow dust sits into freshly pressed seen before. The wasseland around me is beautivi in a savage desciate way The ing, whatever its ogel, has been worth th

monthator fielknow is exceeding you

rough, and getting worse each day as that damnable desert war in Nexoso draps on Go ahead at I heard a very clabutorin shouldn't know anything at all about our

What do you mean difficulties? I think run-their egitis-in establishing a re-

uppet especially now since the early morn-

was no fool, either and he knew when he

intruder managed to get in with some cargo



on the Classics Station stall Fortunately Jefsensitive and sealed it by myoking the Artiwre the man, can't be kept out of the relax room. Happey the press hasn't tight. Our people certainly won't leak, but

Carefully trimmed natis drummed on stranger is already dead fumbled into a vola no problem no press " The \$ngers

But Corson water Likeshed. What about

chamber. We could only bring beck a

oov had much bearing on his thinking when he made his choice." Corson mu-

That's for certain Belimore's attrude

was skill chilly II was not a man achill in the transport system, not anything human at all, just a linetar in an equation field was loaded with all the wrong weights. "Let us hope fervently that this "prazy does us all a liser and import into obligate studies".

Bitently, uncomprehendingly. Corsor notided and left Belimore's office

He humed down the empty condex his mind working funcusity to plan what it was that he was going to any The light-keyed doors sensed his approach and and open his use superfield.

It was already too late. Corsion saw the fax sheet in Bellmore's hands, and he stopped involuntarily.

Belimensia volcas, scientermas instrugand deno, vas surprivingly collim. "Tis out A toal menilar cer the incursion one of the open primers on to picket up our dammable tournal. Were going to their a peetly time explaining taklow the Space. Resources Committee up withy and hear that character got out here is not why he is abilitative. You can have obtain their

The fax sheet orumpled and collepsed 'Get Larkey and his staff waving on

Coreon nocided his face a sensus mask But as his turned and heisted for the exit, he allowed it most a second grin. There was always a certain satisfaction in being high even allowed diseases.

The machine have left me behand. They as least if a warrs, when with the anophisenrog stransing held to wards off the kelling reduction popuring down from Aubiert in finels and heavy with next similaring. Allow, and during. Loan to lengad deny the future. These are some image final just wont failly in a book what hely press forwards in what may consist the press forwards in the fill and the main subset hand used in the winh no choog second to plan in the infill and the fill in the fill in the press forward in the min no choog second to plan in the fill in the second second to plan in

Who was it that said. 'Death is the frist equilition'?

I am thankful that the equipment dohina privided me intit working DI backs te he hadnit wantad to see ma ga. For Johns, the westers of the machine into doing to of Main were enough the could not see here tawed transport system as a limiting factor to the outwast baharone of turner/band. For him, the financiam of the miner actain system were satisfactory.

That not argued with him, not he with me. It was naw, to stip in with a shift of mesng mechanis being routined to to And now, heapty minutes and twelve seconds after addring the automatic chamber 1 am miliass of kilometers from home. Perhaps my possible it matches will preve something other taxs the 1 am second metal.

On the horeon a volcano is exploding, shocking a brazid fountian of glowing magine into the blackness of the sky Descaroling lavia borrits, and splattering across the orange desart, rating pulls of deal. To my right the cruet is brazien and

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I UND FLI Phote Furnition, but manying True Training Stationers for Amount for the street

heaving. While fumes sputter from the cluttered desk was already stering. So he cracks Hell tasif pould not be more wart or

sant us the images the colors the sounds, even the acente of to We have observed

I walk on trying to keep to my schedule

An automated truck speeds past bound hasse I alep out of the truck's path. The volice dust raised by its passage sertion

Debating the work of terness il trudge

depths. I band the suit joints and spring sandwich is no longer an item of debase

Such nonsense! Whet will they thatk

Feeling suddenly looish i siumple on

The psychianal paused bactly balors the stenie white door Alter a partners he took a deep breath and announced temand I m Lately

"Weil yes come in A brisk and humed equally uncomfortable. The screenst function

have known beller than to lobby with

Lam dying Lean won't stay on the back choice except to play it 9

Put simply, hareportation disrupts the brain individual cells and the organ sys-

service the lower on anythairs on the scale of destroyed cell by cell in the beam of a

a man act ofter transmessor? Wo eit he he-

He would act like nothing at all He would be dead atom dead. There have

Larkey randred the triatent piets. He was

I'm wondering Lakkey said liefty an

"Do nee? God, he shouldn't be able to

The thansport site borns over me its

Two volicances are enubling and on either honzon. A turnufbuous send off. Lass

A machine passes dust fielding from to





This adventurer, corporate titan, philanthropist, and futurist all rolled into one offers refreshing insight into the future of workaday capitalism

INTERVIEW

The states of a fibritism test state of a st

States in 1973? Add to that such prestigious evends as the French government's Dider of Merit and the W Averell Hamman Columbia Rusmess School Loadership Avand

Fotosi in mit inn bruk howere blau cobering hin own rewards hower index he have got may it hal set word of hereind cardinal break index here break and the set of hereind cardinal break in the horizon of the set of the set of the set observed the set of the set of the set of the set set of the set of the set of the set of the set set of the set of the set of the set of the set set of the set of the set of the set of the set set of the set of the set of the set of the set set of the set set of the set set of the set set of the set set of the vectory whole set of the set Once: Would you say it is time to retrink the elaction process? Are the good people get and though?

Fobiai: The fact that accretions and up makine that one may be the the provided of the best will write as the work? Some of the best work of the most work? Some of the best come of the most write the the the the datafold for makens asks, thread cash be datafold for makens asks, the datafold for the pression of some asks and the makens asks as the datafold for the pression of the makens asks as the datafold for the makens asks as the datafold for datafold da

Their also other littles when atrong lead eithps such as that provided by Winstom Churshell owing the Social Water Water and the Churshell owner when the rest of the second water water water water the part electrad on sums the heart water water and the second social water second water and the second social social water water social social social water water social social social social water social social social social social water social faither and everyone else in business as anothers.

So who signed and who isn't? The seem ing methodnes who get elected can turn out to be great and some of the ones who just seem ideal for office can turn out to be data.

Owny How do you view the luture with Ronald Recearn as President

Forber: The through if height in been say to give a dozen yakar are correctly in bailton many. Het we need to bail outshow on theight he sight load height says the can be uproducine to the poetwaren of init worthwheight loads with the based of the dimension pressure accurate the with buenous yet he hows in each to call on the business community for divice the value for some initiations and threa, he is about a cabinet of people weth capability.

Only Chi another one of your recent, making ladvettares last summer motorighting access Russia, you presented Notows / Major Promision with one of your capital too'n rectains in induit to his gift to you of a key to the ony of Nascow Would you say the future cells for more such personal efforts to oneure detents with the Dasawa?

Forbes: Well the mayor chuckled and then abruptly ceased chuckling. But it was good natarest and I gave hm is acort that has the same alogan for him to give to his wife it was a hispoy ischurtze.

I don't think we have a problem on a people-to-people basis with the Soviet Union AI her Russinss Learne scoots were herdly Prople-to-people contact is good And it's been universally thus in almost every wir Sokhers, for instance could harknow between atompts to kal one another Themes net even a have in such contacts op more with Maxim Provider.

The good fellow relationships have been triad on the protidential level as well, you as own remember Roosweit entraly said. (On I can handle good dd Uncle Joe This was niair the and of the Second Roack War any just before the boginning of the Oaki War What exist new though is a different mail ter The Soviet Union is a superposer with row mikising might pursanting its part merents.

Communism as a theory strapy here not been accepted in the world. Its regarded as being both mellicient and ensigning. The Rassans are sumounded in a rense by a hostle world. Its the Ohina a Communist human raison. "Ingostavas 5 Communist. But they don't dat along with the USBI

What creats borneon the UBSP and the Unad Salar is a conflict of two-obtained balants in apposets ways of Mis and of govening populations. Ours is more affective in the similar that people would rather got out of Plassa, while nobody is sying to be in the Assissa, while nobody is sying to be in the assissance and ingree offensee. The side while all her selectores and more offensee. The side while all her selectores are marked to be the all her selectores and more offensee.

Cone reason why we vefailen behind in the technical parade is that we often essarch the wrong thing. Detroid would be better off today had they researched a botter engine, rather than people's color preferences.⁹

anyway are devoted to mittary strength That swhat makas Plaasia matter it so I the power of its theory of government which has lost to cuting edge in practice

Monvation has come there in garden plots The operanment gives poople a life garden plot in Mercow and thats where aging percent of their vegetables come from not their the community. The molves ton of their enterprise is something fluess is to incriving to because its the ways to get results tested. The Communit system is evolve.

Great The Functions officient law humans million cloking the party year in measure the Suboptimum close in the set of the the suboptimum close the close sub-measure in the close the behavior. But we close to close the phoned than any comparison of phone than any comparison the phone than the suboptimum close than the new first set of the set of the the set of the set of the the set of t a foll of honest to goodness soldiers. Have we overflooked the importance of the solences in appropriating these funds for the military?

Foldes. No I agree that we need more teldens and more tactions. We need much more of the straightforward sulf. A guininite hand is worth any number being tested.

That also our problem with turks The USSR has unphase housened of three along its boxiest. We have a better lank, theoretically that been undergoing tests and development for the pack for yards only recently did they tinally decide it mission all there that there was dust on the battlefold and that to weep the dust form langtime the process, we recented a Micr

We have so much and brag to much hool Indimicigal superingry but is always in the listosistry is silvass being belied. Its not in the hands of topps, of whom we don't have enough Su two hundred mitionables spectrament brings is very important for us it is not a meap magnetic. The Definite Department bring is very important for us it is not a meap magnetic.

What we need to do 1 thrisi is to put a May cent a gation tax on gasoline and wrap it about the hag. It some country seves American is hottops and we decide to rescue them we this we the cepetidity to do it.

We simply have to teaked that there is a case to an theorem to our high standard of life and to the umbrails we offer the rest of the lives world. With that responsibility to the fisaction of peoples everywhere we don't have to proach. We don't have to upend there operanders

We will got to have weapons in the hands of our troops and in the laborations to be have hundred maken dollars sort being sensing allocated. What is avong is penthere to a fee billion more being lipent of the plont over such other programs as leasempt and development of the environ mixerial mask and social econopes?

Folder Weise made environse antides in these senses shows been bolinois doing send dollarstmeet than if do havesa's ago non-average and the experience have see entrange spotiation and in extension plemetange spotiation and in extension plemetange spotiation and in extension pleneight another. It all ends up in the procetic bolio we object with another so the longer entrange. These is the entrange shows and entrange sh

But we cannot get back, our essensal mitarymsucie with court, Right new with a thry centrax on against of packine well the able logue for a strong America. We will cut the amount of gas will reveal to emport and well locoor our being held hossage to OPEC. Then is a low years we I have own trates have.

Omm: Do you think the blackup of the American family and old-fashioned moralI don tapisa with the profligate display of pornography with it being pushed in your skale. But the point is that when it comes to young paopla living tagether before they get manifed — practiang, you might say — I can't aque that the hest been a skataster

Initialized on flaving sometry closed cases becale are just introji tali hang cut to a greater clegwe i don't finish thate bad o that it's made us a weater country. I think we are mostly healther in many negociathan we write the mostly decades Carros: What's the most onteo a potalem

facing the world today?

Poblet: Wat Nast I dialy wai withowing) an economy with a begree of overly materials to expectation especially in Amenims We ve got to the point where we ins langer measure the quality of the by the number of bithouts in the country have there is a greater diagree of ectualizing and so tarity, everyone feets he has a right to things that used to be wely-out revealds - object TV, a vari a motorousle

Well there going to be disapponential in this And maybe the kind of indiligence start ward discuble. If mid generating, beckue I can afford all those things and huse been Lody to have been been with movey its just that weath is instate. Lies also get to remoit mysted continuity that there are terms therein you can his but, just can have

Constitution of the propert technology with democracy where people and the people of for thermalwes? Is the phasing and of bureaucracy people tell.

Publies I think technology has provided interpreter ban problem. But heavy in businustes that in realizing for the ted real greenment of the state a parson is almost univer busines and the state almost univer busines are almost here no boos to whom you is accountable froe can be stopy to busines and docsone four objects and the publics within a the window at these class

Cesse Are there cuss we should be taking from the Japanese?

Periods its different in Japan because the government is a partner in the opporate approach. The Japanese government et up standards after the war thus said weighing exponent from Japan must be of he very highest quality possible. If but could plan would not be door all there experiments there people are taried off by paiwmasks employees they don't want. The amployee providing their in the brack they with the tendent take in a the brack they with the tendent base costs with the company's business. Base Costs with the company's business.

If Japan the two are totally intervenyed. Once you poin a company you have obsecurity, but you must conform. You alse cole in the morning to be healthy. You genumely applieud a new output record it is your this and your company. Well that it never be to in Amanca and i don there's a deemable.

Clever, fracties had one of the first company, bet rackies in New toke Caby brack in the early Sevenies. Later you installed a corporate gymnatium andouwaging employes to wrich out on company three. How doyou see these as a clearariume from what the appenses are down?

Forbes. They in totally different Onny. Choice?

Palbes Absolutes

Owner How has your staff responded? Forbes I would any twenty-five percent of the employees actively use the gon and participates actively use the golf nets, and all hose things

Kip divocior of our fitness center will



Vodka smooths out in the limelight, 4 parts Vodka, 1 part Rose's,



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- Norma	Reactingations	Contact	Arendes
Culturia Space Insitate	Mail Code A (330 Usweniky of California at San Diego Laubea CA (82083 (714) 452 4772	Jaines R. Aunald Disector	Backes application of space technology and conducts research at the University of California
Campaign foi Space. Political Action Convestment	303 M Szeut, S W Suris 993 Waahington DC 55034 (2037) 357 0763	Qavd Weth Executive Director	Supports the compages of pro space political candidates
Chicago Scottely for Spece Sottlement	4 Ni 186 Walter Divile Addison IL 60101 (212) 529 1049	GrazgjMarynak Proiadant	Provides public microsoft on space makes
Célecres for Spece	1003 Outour Street Sum 16 Recordo Beach, CA 90278 (210) S74-1391	Terry Sevage Possident	Focuses on the ourse's political scene its it al- tests space scivity
Clazente for Space Derodianzatore	1426 California Street #9 San Francesco, 634,94929	Jan Hoagily (475):588-3068	Works for policely uses of, and reproving cooperation in space
Cousers for Space Political Action Committee	(9036 1641 Street, N.W. Sude D-1231 Westwegton DC 20070 (2021 252-5217	Hanot Grohem Decolu	Supports the campaigne of pro-special polices? candidates through contributions advertising, and volumeer work
Foundation, Inc	55 E. Garanium Avchue Sa Paul MH 55117 (\$12) 489 4499	Gery C. Hudeon Plassdel?	Sponsors av-bouse research in technical fields at g., teanch-which deeps real propulsion sys- tems) needed to provide commercial privide space robustly
E-ducan Allence	1368 Kearry Bosel San Francisco: CA 94100 (410) 508 5356 (410) 596-5968	Richard Drom Jon Heighty Jon (Renard)	Sparrors annual oubday: Boace Day federation and otherway promotes interest in space
explitute for the Secol Bolence Study of Spece	PO Box 822 Georgelown Unversitä Weshington (JC:20057 (write only)	Orayles.Disker	Sponarse research rato the social appents of rgasce explorators and development
interface (ii)	PO Bpc37 Abus-OK78588 (wele-only)	Platent P Maoro President	Publicash, arcticitages and supports man- land a nuws rite space
L-6 Society (2)	1620 N. Padi Simut Turanin, AZ 85719 (502) 620-6351	Randy Chanson	Emphaseus permanent spece stations ad- vanced transportation systems and evolution space-colonies
Maryland Altures for Space Colonianicon (b)	3112 Student Union University of Marytend College Park, MD 20142 (201) 454-4254	Gaty Banshard	Studies at aspects of space. Marries represests instant spring Space/Futures Week
National Action Committee for Sprace	PC Box 50311 Weshington DC 29004 (501)-431-0215	Ken McCanneli	Fingages in isobying advises the public about upcoming legislation of interest to pro-sphere groups
Netornal Spect Club	1629 K Street N W Washington DC 25006 (202).256-4690	Roy Malter	Discutzes civilian and mittary applications of metwolty semicrosectors and related technology
National Space Institute	PO Box 1420 Arlington, VA.22210 (703):525-3103	Merk P. Chargend III Program Manggar	Emphasure mass communications about past pummers, and potential benefits of space

	1	Automation	
Name	Headquarters	Contact	Achubez
Nangura University Space Settlement Skoles Project	Sociangy Department Nagara Crivensity Nagara Crivensity NY 14174 (718) 285 1242 (4552 × 508)	William E. MacOurwol	Studies the societal aspects of space helpsals
Organization for the Advancement of Space Industrialization and Settlement (DAS45) (4) (3)	PO Box 704 Barts Marica CA 95405 (210) 374 1381	Michael Trail	Emphanues receivary inteps toward space set Sements and beyond (s.g., space shutter reals) to broad-bened space indestantistation)
Planetwy Backety	1443 Nove York Devic Albadania (CA-191001 (213) 797-6100	Louis Fredman Executive Director	Promotes public involvement in planetary explo- ration
Space Codets of America	256 South Robertson Rovievard Beverig Hills: CA 96211 (210) 274: 6365	Nichelle Nichels Gelactic Astriwat	Promotes space exploration and softensed and recoveringes interest in space-related carears for youth
Spece Coalition	2101 L. Street, N'8 Webwrgten: DC 20087 (2021:485-6700	Gevald'W Deggevs	Promotes a vigorous national space program sonorazing advanced space indiastraktive and a socure permanent manined precence in space
Space Players	259 St. John & Piece Brooklyn: NY 11217 (212) 783 8296	Gregory Herristen	Seeks to organize New York City area college assident organizations to develop sporce
Space Poundation	PO Box-4 + Houston: TX 77001 (710):064-4400	Art Dula Decretory	Funda commercial research emphasizes pro- acta dealing with moderable. (algo-scale space resources in energy and materials
Bpace Futures Bosrety (b)	9627 Bprace Streal Philodolphic: PR 10108 (215) 732 3306	Michiel Calabrese	Informs the public about spece exploration, in classicalization and colonization
Bpace Now	PO Box 333 Walnut Craek, CA 94506 (415):933 1384	Basivi, McKrimey Decitor	Explores (e.g. low cost orbital temperation) epice systems (e.g. low cost orbital temperation)
Apoce Research Coordrating Committee (8)	POI Box 110 Sherwood OR 97140 (wrda only)	T.C. Volum	Provides iterature searches and atsincts of papers, encourages analesz research in space industrialization and colonisation.
Space Studies trollitute	PO Box 82 Princelen NJ 08540 (909) 921 0377	Batsas Evens Overdry of Administration	Selects funds for work on mass driver and studies of nonamentical resources
Special Interest Group on the Spece Sciences	PO Bax 3781 Beedy Hills: CA 90212 (wild only)	Bonny Lee Michaetson	As an internal subgroup of American Manaa provides members a torum for discussion of as tomorry and space
Speculative Anthropology Society	10151 Heather Gourt Weekminuter CA 92563	Carol J. Amero (714) 554-0276	Airts to present issearch on the social and human aspects of space development
Stanford Centor for Spece Development	PO Box 7104 Staniard CA-94305	Michael Sitton (815)-497-4538	Does independent research on space industri- alization
Shategic Arms Control Organization	PO Box 11/02 A Palo Alto CA 94306 (415) 858 1114	MarcyHatran Dapatowst of Internation Services	Poouver on international power imbeliances posed by development of new space weapons systems
Bunset Energy Council	Box 201 163 Marin Struet Cold Spring, WY 10516 (814) 266 3679	Frederick H Osborn Jr Executive Sec withly	Fosters relearch into solar-pewor subsitie con organs

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Name	Headquarters *	Asternation Contact	Activities
Unked Futanut Association	PD 8cx 17059 San Diago CA 92117 (714) 749 1223	James II Preza President	Home the public on stokes concerning space
United States Space Education Association	746 Tumpke Boad Dicabethtown, Ph.17022 (717):367 3365	Robart A Pession Sconstary Techaniz	Promotes education about space lectinology benefits
University of California Space Working Gesup	Space Sciences Laboratory University of California	Josoph Miller Director Berkeley CA 94729	Sporestru niveench in agaze resources and sit terrents by students and faculty all the Univer- sity of Celifornia
Ukah Spece Association (A)	3281Sirest Sait Lake City UT 84103 (921)-399-0251	Rohard Bacar	Emphases strong released space policy and memorial space programs, promotes ensuel July 30 Space Exploration Day
World Space Center	221 W Carrilo Street Santa Barbasa, CA S2101 (805) 965 7947	Jones Bereatt Coordevitor	Helps developing countries baild remote-sere- ing telecommunications and telated projects
World Spect Federation (re)	13252 Marcheolor Grandwave MC 6-1330 (216) 906-0553	CarcliNewrs President	Sels up communications enong space missuit groups futures sociations etc. to encounege cross-rooperation
World Spice Foundation	PG BoxY South Plasadena(CA 91030	Timolity Bauer Secretary (213):445-3830	Funds space technology development and siz planation conducts technical projects
OTHER SPACE SYMPATHE	TC GROUPS		
American Astronomisal Bocety	1816 Jallierson Place Washington: DC 20806 (2005) 658 (334	Peter B. Bayce Executive Officer	A professional association of astronomera pro- rectos astronomy and related sciences dis- seminates research artiong professionals
Astronomical League (h)	PO Rox 3082 Delt Monres, 54 902(6	Don-Anther Executive Secretary	Brings together anazeur astronomical societies into an activist federation
Demot Five Energy Committee of B tex B reh	1284 Graff Court N 18 Annepolis MD 21483 (301) 252-5821	Bruce Fredman Chamas	Seeks to speed up space industration and function-analyzy research
Forum for the Advancement of Students in Science and Technology, Inc. (FAIS)7)	1600 Matsachusette Avenue: N.W Guise 22 Weshington: DC 20005	Alan Ladweg (332) 495-3660	As a real-oral network, promotes student partici- pation in all aspects of science
Mernidonal Committee for the Fabure	2325 Poter Street, N'W Washington, DC 20025	Barbers Max Hubberd (202):905-8776	Organizee SYNCON conteninces media evenis, and interleophrary public locard
International Planetanum Bociety, Inc. (#)	Thomas Jefferson High School 6303 Bracklock Road Alexandrin VA 22252	Water Tensphort Membership Chaumen	Conducto efformation programs and publishes neveletiers desized to astronomy
Science Rebon Writers of America Inc.	68 Countryside Apts Hockets/town NJ-07843 (201) 652-8531	Peter D. Poulz Executive Secretary	A professional guild of spance-fiction vertexs actists publishers and other
Technology and Social Change Group	Deportment of Sociology Phroeton University Princeton NJ 06544 (K09) 452-4520	Janua R Bangar	Investigative economic political and second of lects of lectionskogy
World Putane Society (3)	4995 St Eine Avenue Beibesde NO 20014	Bat Eskard Dreator of Membarship	Serves as clearinghouse for a bload range of inchalarly torecasts analyses and ideas

(a) Has regional sectors integens or inflicters, when second in larger bit is write to herologicarives for local coanacts (\$0.10 Decyty afflicte: but scope of an admitter maters in of wider than weinity local influent.

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INTERVIEW

CONTINUED FROM FASE 78

schedule a yoga class. He might bring in a kanale expertor schedure adept in similaer losi or modeliti danoa.

People who work here have been trained to do the Hamilich manauver in the event someone's choking. Specialists in verious departments have been trained in anal should be done for a heart attack victim.

Is a participatory thing, though and entitely voluntary. It adds pleasure for people who work hara, but its a pleasure of their choice.

Others' Should other companies investipate such social technologies as gims longes holder incortines, staggerid work hours and founday work weeks to improve the work environment of the fur jun?

Folse Ves Such investional as staggated and investions inseriters accessful in twenter and other caustimus. These things by off in all backs of practical ways—will acced abserteests: greater producting accessful abserteests: greater producting by off in all backs of all access of adjust ecogritics of the human tactor by the efficience they like what they in doing and this is anyoet begind pream the manapatace

These things don't all necessarily work everywhere however. Parting the work area with bight colors, or diterent colors has not worked for the Sweden

And then then the total day work week white high the total about two years ago. It was not a outcreas the nearon why is don't work for us was that the that we chinadtricity - most affair barve semicology in each days there. That resurce the chinad semitimation of the termination of the semident theory. The termination of the semitimation of the termination of the semitimation of the semicology week is below. It means the termination of the semitimation of the semicology week is heldy means week in our business if just addit work.

The point is though is were management seeps hyper to braide an awareness of in dividual work in the company. As I said in the Sayings of Chernisen Matchine Teerybody has to be pomotody to somebody to be emptody. We don't the in a vacuum and the personal element is especially important in a company company.

Draw in the workplace of lomorrow then, spend technologies must be relevant to the specific distation

Tobies These to billingent but has called be patientially when not in the Japande motion of work. We don't wait new poors and anyon the company and g and barry bail anyon the company and the second barry of the second second barry of the second barry of dealers anyone on personal filestom dealers anyone on personal filestom on the second barry of the company and motion the second barry of the second barry of the company and the second barry of the company and the second barry of the second becase readony asvirat the lunch of care. Chryster was many industed of payrog and/a concesto-payre to the lunch payrog of the lunch of the lunch payrog of the lunch of the lunch and to frem. Here is an extension tables and the frem. Here is an extension tables tables and the second tables and tables converting to produce them And well table converting to produce them And well tables and concerning tables and between tables of tables payrows tables, and extension dension tables to table payrows distance of tables payrows and galaxy is table payrows tables and extensions and galaxy is table payrows tables and care tables payrows and tables payrows distance of tables payrows dista

Introduction that is creat the one to Locihead introduction that is creat the one to Locihead introduction and the one to Locihead introduction in the Omysian below where the inclusion was one of support ing these who were going to lead their polihead intervention and the one of the one of the which is a were read presented only an interview.

We ve all gotten pretty good at stocking on hubcaps, but devising a computer that sticks them on more accurately is where the excitement lives, and we must train people to fix the things 5

loans are not an answer

There is a price for being wrong in the executive suite. The problem with Chrysler is not Takyo O Born The problem like in Genot set executive suite. Those out in Detroit distint read with all of use knew and could see. There was a short term look at pricit trachas cost them a long term look to

When OPEC was formed and the first of emblage was imposed, we contraud to multize a dependency we contraud to multize a dependency we couldn't strong But evidence and the strong out gas guizzens that source stauli i don't hink' we chould have baied. Default out i clonit think demapting of Americans would support any continuity or such a clived handbuil to the to called free enforcime world.

And I doe't think is going to save Chrysler to not enough its whote happened to the whole subsmable market in this country. Our problem has been owand within the industry not hom abroad and in a free-entergenese system the problem has to be solved in the marketplace not with operandom transformations.

Orms: Are we writestang the breakup of the big concertaion? The end of an era of big growth? A return to the Jeffersonian concept of small business, where rewards are to performance and not just for attend ing jobs?

Fibige 10k in the lag coopstant he will were are for partitioning of load in trivia of any lag coopstants, including BM and ATE Instant here works of competition from new technologies, stress comparies, and so fort. We need scatte comparies of the up that are graded four think outling at ining for need. Carryou insigner the paget who rate the feasible barriers many at each of the trivia of barriers. So thous we can to the the insertiments. So should we can to the barriers

No. big buarness is not the problem and I don't think there is going to be any end of it. I hope not Built in it than there are more mem-and pop buarnesses than everlens of thousands more.

Deep Should there be more corporate lunding of universities and releast in role luces for revearch and development in technology? Not Exion tooking at Econ. but a fusion company for instance tooking to a university?

Forbes: Compares commute appstuably But where we've slipped comewhal is in the "any grass is grean area in hard since manes been a outback in research and developmon. It is a missike, and its one reason why we velocit behind in freitech regal parade.

Another instants that we derive reservor the warding here. This automotive and another investigating people's olds, content-one weathquing people's olds, content-one association of developing a more ablowed people's and the analysis of the another there are also and the analysis of the people's and the analysis of the another baseness if the need on 1 anoppiled the baseness if the need on 1 anoppiled baseness if the need on 1 anoppiled them and

Omsil is Forbes involved in corporate philamhtopy for research and development?

Perbea: Not really We support the arts generously We ve set up and support Set and museums. We do contribute very substantisty to educational instructions. Including those with which were abilited and others but not directly in an R&D sense. We probably infruid to us we haven t

Omer is American technology eroding? Are we moving into more et will import/ expert ecenomy?

Parties: No can't be in an import/export economy and taxes an ecoling lectimology. Thats where the Broat how fails on their tace to the Japanese who now hold the postorio Birtish memorianed is hundred weers aco

To export you have to be competitive in technology as well as in proce. This is why we is now importing some technology from Japan. Were importing some of the techinguas the Japanese had to devide be cause they had no resources. Whether its motorpoles, automobiles, tables, comenes televisionisets. Japanese technology has had to be competitive in order for the Japanese to exptril

We valid suffered complication here if hink however, were specify galling over it under exogeneses laid down in the instrucplace. We is fairly innovative, we have a lot of companies that have stayed siggitization and hardry and later and loter.

Determine and areas aways and impacts for the end of the second ways and impacts the menalulation of electrones were and you can't sign ong and sit electrones and you can't sign ong and sit electrones beyont/moort in on a substitution if is an autor of the second ways in the site of the beyont the second ways in a site of the second are obtained in a site of the second ways in the site of the second ways the second ways the

Once is an amphasis in the actions on more tachnical aducation at the expense of the turnenties an antiwello investigating instatry and updating our plants and mathrwary? Should engineering schools pronote more studies in basis technology attem their twey're gamenous antiac of computer correct data processing and of engineering?

Packas Yas (Innin most) of the excitament in the face of industry less in making intoads into technology Buill from Legals that we should provide loss (additional sector) high technology. We will gettern author good in solution, hubcass, on the lines can to be too much enrothesis on develop face compacts build book, them in more accutably and above them in more accutably and even observment whether they should be stated on all all

The New Depaisment for example, can turction with visatifhes notified lack of two technology but because we don't have arrough of the other This is where the seobserved with can be characterized training semecody who can be charge when the basek

Greet Should there be less emphase on the humanities in schools?

Porbes Without secnificing the humanism in humanism is the humanismus and Weisori t said charge the oripoton of the numbers of those entering humanisms umain those artering the searces I don't believe in these out obtained programs that any these and more technologies in the area forly thousand more in that there is a origam to band it. Think supply incidentaril of the gives imprise

There will always be and should be oncovargement for studying Evilopation and its levature and its gostry. And there is no way an increased emphasis on high schnology will lespit the number of poals, who are surting out versaes in the garet or after hours at McDonald's.

What should be portfed out to young stars though beginning in the preschool years is the boundless opportunities in tolence. I think panelitis should be more aftertive to turning kids on to the excite



sold the support of Balantino and search for your last store or a lots

JACK DANIEL AND HIS NEPHEW, Lem Motlow, disagreed on most everything. Until it came to making whiskey.

Mr. Jack (that's him on the left) was a fancy dresser. So Lem refused to wear a tie! But they both insisted on mellowing their whiskey through huge vars of charcoal before aging.

And we're about the only distillery who still does it that way today. You see, Mr. Jack once stid, "Every day we make it, we'll make it the best we can." And neither Lem nor anybody else wer disagreed with that.

CHARCOAL MELLOWED DROP DROP DrOP

Tennessee Winekey + 90 Proof - Disolad and Battind by Jack Daniel Dathing Len Mattaw, Prop. Jack. Rosts 1, Lynchburg (Pop. 261) Tenessee 27352 Placed in this Instance: Registers of Association: Places By the University States Government. ment of lessearch through games, chamatry sets television science programs. Kids who have any interest in technology should be made aware of the growing demand for skilled biologists, micrologists, and com-

palar scientists and of the increasing linaricial payoffs Onny: Where do you see the growth areas

in science?

Forbes: Medicine biology arrangy Weire going to have energy running out of our ears in two years

Other Considering that vertually all significan't solar poneeting, companies are owned by big of—Aroo Encan. Media, and Shell—can we topoct a low cost actar anetyy to emergin? And are hose the significompanies to be developing solar?

Forbes It coerts to be complicated to make the solar cell alfordable. But we are not depending on the oil companies exclusively though their future does depend on their doing it.

May2ea Book3—inthe battery uses— or a. Kodex—with en film that gathers and transmits Lght—will become the biggent netry ocregative Comparison of big basinets of a house in survival will eventually get us lower coming energy fill 1 three the three vectors in bigget basis and the survival will brough inthe years have only well brough inthe years have only of energy coloring out of our same. When we do the proceed energy will change

Onvol Whitwould you change in the educontronal system to prepare the busireserved of tomorow?

Portise: I disaya kita mone case heatoryon the high obtopical and grade exhibit leset Whisis General Electro making? Who was the natawa size of CII when here darks were to schoo? Mayter My percent to epting backy dati toost them in other works user here on to the fact that there is nothing states orther data the service is nothing tools not state a data the service is nothing tools not state. A data the service is nothing tools not state a data the service is nothing tools not state. The service is nothing to logith and another

Rs reportant to cover the business about exploring labor and Mannen tou the stress should not be on either indexing est Abit. School don it have to general all thattame triving to my businessus good and that all globy source from businessus good and that all all globy source from business for a statut. School don it have to emergeninclustes systems from business is enouticatives systems from business to enough through being given allowances to enough through being given allowances to enough on give from Approximation being being and any eliginarity are all through they part come to understand.

Onsel Others have suggested that the best education degree for the future man M B A combined with a technical back ground periocularly for women. Do you agree?

Portes: Its an ideal contribution fryou can have an engineer who is a graduate of a bisities school. For women God, while a unique thing? With such competence maybe they wouldn't even be citicized for being contribut Denv. Since every last mineral can be found in space Htylaid de you herk a prinopal am should be to recepture the vision of space exploration that we guickly abandoned altar the meen tandrie?

Bottes: Space is partial the pun so fai cut that I lind it had to reach out and un distabilit i cuturidentation memp the bottom of the sease for instance. For the resources on the plant semi-missionably bounders Space is to valit that it reaches boyond my comprehension.

Otex: Are you familiar with the mass driver and with Genard O Natt's book The High Enzylee?

Forbes These high florts are sanaly exoung, but whether it's economical to go these to support the event is appartation if an not sure. I think it is more immediately lease take to concentrate on the planet we are such with and on

But it is very important that we don't over look space. It is such a turn on to such in-

Stou can't be in an import (export economy and have an enoding) technology That's why the Japanese now hold the position Britain maintained over a hundred years ago.

creasing humbers of people and its port to be encouraged. Who can imagine what the horizotta and? They te limitess in levins of what we may learn about the

As to going expression an economic biosis now though it is hard to service the aminer tocald lead in space. At the same time if were not out three building learning—we will already discussed have corporations dont attropped the futureits a make Canadoring all he products that have been denied from our space of fort we'd before here up our book snapp, and all back in the ad

Ottol: How do you wan the Moon Treaty⁰ Should the profile of space be shared issuely encount at the nations of the work softmat/billathia for instance gata material benefits he same as France even though \$1 Larks has no space program? Could private entropise and Third WorkInsteins both be net in space?

Forbes I thank if's a next academic theory but the point is. Who's going to spend all the money to dig out the one if all of thes to be furned over to the commany of nations? You obviously comit go out and stock all tag obvil as if the old cottemal daws and save the moon is yours. This is your Seturn But you just can't remove incontive and say unitrything belongs to inverybody. That would mean hothing belongs to invjoring and includy then would go get it.

Knowkóge bought baik from specer I feel should be universally shared to that Ugarida neovers-a hundiad percent of whatever we know And Sti Lanay would allo gari a hundiad percent but is of the material hungs. I hink it is a bridge that may not have to be coosed of an a law heartere GmM. But what if we were to cross the bridge?

Forbas: It is like Anatosin oil The Anatosi weter potenty ridden normatic people in meany respects until they accord of Presamathy theyne way pro-Therd Word. But are for how much they do willing to share and for Lanea as the as i how SoiLanea) or paying what we to paying for a barrel of oil them days.

I think that the funct that a lot of ore on to particular associal then Prince should be able to sell the one in the world market place. Then isomebox else will go after amother asteroid for one as entrepreneurs have deere on Each for or and for averymenter it and markend profile lowershould breach a visual pompter market to rights to a cellater medicine mexicate

It is the land of accelering gassion for which if would be wonder built have a prectical case to argue 1 thrirk we full be write. when isomebicidy does come beck with somebing gradule averybody wards. We full all be the beneficianes then which re we have unwardely a greed to three equally of not which is unlikely.

Cense: Now were the first man to cross the United States in a hereit beloon and the first/pregne: to cross the Sowet Union on a motoropole. You we systed to the Arctix Cacle and back. Where will your next adventime take you?

Notes the mini corporate societates meaning in the societates the level day and galaxy Gentry a when social constraints and the social social social social parts of the social social social social social social social the social parts social to the social terming or social social to the social terming or social to the social to the social terming or social to the social to the social terming or social to the social to the social terming or social to the social to the social terming or social to the social to the social terming or the social to the social terming or the social term is the social term to the social parts of the social termines to the social termines to the social termines termines termines the social termines term

Omm: What kind of president would Malcolm Forbes be?

Forbes: OfForbes incorporated whether encore being in public kiel id be ideal bacasiel weather taken in. I haven the offered is Nobody's asked me And you incom the united hard of its toost. So I can be very objective about it I im faithered has such a question was even a saked: Oo

99 OMN



Surrealistic images mirror the Japanese predilection for science fiction



BY ROBERT SHECKLEY



Science-liston publishing is booming in Japan and has established itself as a popular and form the comes as in suprese. The many accent Agencies legiods as operate flocking and the galagiety and there has been a strong accented to the second strong the flocking of a feasate and a feasate and

for an sudence that leading had an established base for the sharing combined with a strong inclination toward sclerofile achievament. Sentoel focan proper began in Jappin damp dry 1876-88, when the country was undergoing wollant inclatemation. Theselettem of Jake white is rowing found an immediate and achievasatic audionce, and white scrowing found an immediate and achievasatic audionce, and the scrowing found an immediate and achievasatic audionce.

Left and above. Herus Takino's classic, Zen-Me emphases on visual simplicity creates a subtle maps for the high downs interest in the new Japanese art

Clockwise, spar Int Kasuala Avazaki and Ishan Bausta kao Isading space wilate astpoporty and the sareal form is unique perception of space for Tophylog Sadiwnista Unique Sadiwnista



between the two world winn, rubbe writes of execute toxics and basility opport regionering more that the form-analysis of all all the Bestreen form of the two rubbes, the rubbes of the strength and the strength of the strength tests of the rubbes, the fitted of strength key strength as all bained by the sourcests, unit expression, the reflect of strength and basility of the rubbes sourcests, unit expression, the reflect of strength and basility of the rubbes basility of provide the strength of the strength and the rubbes tests of others in spaces in the subty of these to the strength of the rubbes tests of other in spaces in the subty of these to the strength of the rubbes arrows of the statem rubbes and the instal and the rubbes of the rubbes arrows of the statem rubbes are to the provide all the country of common rubbes arrows of the statem rubbes are to the provide other to count and the rubbes arrows of the statem rubbes are to the provide other to count and the rubbes arrows of the statem rubbes are to the provide other to count and and the statem rubbes are to the provide other to count and the statem tests of the statem rubbes are to the provide other to count and the statement of the st





The Western seed of surrealism, planted in the Twenties, has blossomed into Eastern flowers ?

publishing and move interests in science fiction. Japan is the second-largest revise for science fiction aborthe United Status, accounting to Ken Sekegush, an odfar who know Japanese publishing. "There are five monthly SF magazinas whose combined circulation is in the hundholds of thousands."

Benever 1967 and 1974 the postering patishing time! Hayakawa SF Benever applicited 31% when postering the patishing time! Hayakawa SF Benever Appliced 31% when the interactions of patishing the patient of the time term hardra. Today Exploit hardling a mean patient when the tail patient term hardra. Today Exploit hardling a mean patient when the hardrand for the tail of the construction of the tail of the tail of the tail of the tail of the formation under a data when the tail and tail tail tail tail tail to the formation under a data when the tail tail tails when the tail patient book in column has been and between the tail applies in the tail and the tail tails to the tail tails and tails the tails tails tails the patient of the tails tails the tail tails and the tails when the tails applies in the tails and tails the tails tails tails tails the tails tails tails the tails tails tails the tails and tails tails tails tails the tails tails the tails tails tails tails tails the tails tails tails tails the tails to the tails tails



Opolewicz hom sight Junichs Ohlor makter Eberal use of obside exposums (right and above), die art of N Kasamentau (hop kell), Nateue Nome (hop right) mitsche a Mademielot with odd ywrigotisticht

334 OM



publicatories and eventually NICAP (Nasensi invaligations Committee on Annie Prenomena) selected ri as one of his tour loss UPO phasparable were listen. Promnet UPD proponent Dr. Jerner Macker dnaction of research for APRO (Annia) Prenomene Research Organization) contaters the photograph proof of a plasma population fold surrounding the UPO

Besides, there happens to be a plotter to early a calan of the object MeDNet actively save Earlier in the light his has been flying to the tension with this own Tran decondange booster include which concodentative is shaped very much like a baie can. It stryed within a line kilometers of the Germary speaceraft for many hours alternated be free descentance with like listification.

Observes have suggested that McDaht noticed the fitter stage again and was slarfed by its generation in an unsinplicated sector of the sky. The astronautic visual acuaty was, by the own account visual acuaty was, by the own account visual acuaty by dit on the windows and by slavate in the sector share dirth.

McDivit does not ballwe his UFO was nothing more than his booster. He claims he know what his booster looked kee and that this object though similar was not identical calibroagh his object. Bid while had alsady reported seeing the booster without at histrecognizing it). The sighting remains "sineaplanted" (even to the superskeptical Condar Committee) which, of course, by relative matters it a constraint LPD.

Inclusion accurring during other testemtights, territer intropy over Alls billing and the second second

Meanwhile adtropaute in Skyliko saw a small pulsaring rad light that they hough to be a surviving satisfies Attrough their out of four photographs they teck showed is to be a part source of light, the fourth one showed a strange spraggie dyster than them.



might concervably have been caused by a firm fault is stacking shutter a window imparticular or any number of other telesonable possibilities. These are even UEO stories inscription

There are even UFO stones insocored with the Severt Uncors is exective space program. Late in 1978 is wiringe talk was published in Argetting that described how a log Source mittary official had described how surrounded by UFOs entre holl year mit that cosmonius twin. Romaneita and Georgi Greetten has photographic family

Therefore need, discovers of syntaxes if the time-spontant is larger in the syntaxes in the time-spontant is larger in the syntaxes in the time is some spontant is larger in the time spontant is larger in the syntaxes in the new constraints is to be on the syntaxes in the time constraints in the syntaxes in the syntax syntax syntaxes in the measure is the syntax syntax syntaxes in the measure is the syntax syntax syntaxes in the syntax syntax syntax syntaxes in the syntax syntax syntax syntax syntaxes in the syntax syntax syntax syntax syntax syntax graver (or the syntax syntax). The syntax syntax syntax syntax syntax are graved to the syntaxes in the syntax syntax syntax syntax syntax are graver (or the syntax syntax). Be and any syntax syntax syntax syntax are graver (or the syntax syntax). Be any syntax syntax syntax syntax are graver (or the syntax syntax) and any syntax and any syntax syntax and any syntax any syntax and any syntax any syntax and any syntax and any syntax and any syntax any syntax and any syntax any syntax any syntax any syntax any syntax and any syntax any synta

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6 OM0



"...but it sounded sensational in the store."

You've just invested \$800 in the hi-fidekty avaters of your draams. Now it's

Larring who a rightmane. Where has the

What a difference a room makes.

Hindelity systems are made to exact specifications. But Proce specifications and include your room demansions and personality is a chapses campaing, celling height, etc. And, hey all affect the sound your availant ultimatava lealware

How ADC Sound Stupper"equations custom-tailor sound

ADD Sound Shisper* equations regiment the audio frequency range and adjust the level of each segment to achieve the sound you wint. An equatizer can balance

An ADC Sound Shaper will actually improve the sound quality of your speekers, anthous or natures numble, hiss and record surfuse hose, improve moved tures and



broadcast quality and in the case of the Sound Shaper Two allow you to make and dub studio quality taxes.

Re-mix records while you listen.

A recording engineer mixes and balances music based on his ears. Which may mean that you don't hear what you want to hear

with an AUC Sound Shaper you can it is every And LED-It, side controls evaluate on most models make it even easier, because you can visually plot the equilaterion curve

There's an ADC Sound Shaper to suit your taste... and your wallet.

ADC makes servinal different Sound Bragers. Everything from the basic Sound Shaper One to our Sound Shaper Three Passonaphic?* equation

For more information, just look for the Oustiom Tailored Sound" display at the audio stores everywhere





Custom-Tailored Sound

b board Photos is a regulared bedrame of Auto Ogramma Concentration

OUT DOOR

shed his children by talking them to "go our wilking in the show. "No must have the patients informed poment and mest debrief him afterward." Silverman and

Even Backer is 1 Av Hoess' tape majer back is il her message or sure sig at auihontanon pasert. Bherman says. Such an instructual might shoptit more as a term of labolikon. Bedrer calls the suggestion had cross. If we nave inscent asystem to be harmed by subhming losseption.

There is a plotting minin to instreme police who of long 30, office with flashed who in this score is 1074 he frantest and broken is given transit in the Executed Teamcal Advise the plot addressing in the advised against Ammer Boothers and the movies bestler Ammer Boothers and the movies bestler to prove that be advised and the score and the score is the transition of the score and the 6 score that the average.

ARTELL TRICKS

In the contents degade more specialinitiates groups will proteibly testifier waters with their own messages. Should we rule out to buy serplugs and renew the cry to ban the technology? Probably rule

First of MI it is easy to logot that hidden recessiges are not recessably evil. Famous ATTAIN Here long used used tracks to an interior the provinces animatic of a pains the theory has been been as a second second track and the starts. Our eyes has a other warms to the starts. Our eyes has a other warms to the starts. Our eyes has a other warms to be attain the improved count starts of the theory of the improved counts starts of the theory of the starts and the starts and the starts of the improved counts starts of the starts of the improved counts starts of the count of the starts of the starts and the start of the start warms from a parameters and the count of the start of the start of the start of the start warms of the start of the count of the start of the start of the start of these of the start of the start of the start of these of the start these of the start of the start of the start of the starts and the start of the start of the start the starts and the start of the start of the start the start of the start of the start of the start of the start the start of the s

Noterous opponents of subaryonal manoplation longin ine smple fast: For yeas consumers have allowed themselves to be utilisently manuplated without rading any fullis. Although adds allow allowed yourse codes fully demod massages that are instein if ma subalimized. Four look closely, they are obvious full in a thin has there to exclusive the barrage of commercial he sear

Consider for example a cosmolocación a roctint Broadway Playtail. Set againet a personal sky a pointed aod toatoù fhrueba (overd) toward a cain of toa o cained to make a light endle. In a Fellers from the scene would ment an X name, but areas devotes are used often to set products

Tis luberous to draw a destruction between hidden massages in advanturing which people accept and subirmal massages - says Professor Daron arrow both types of messages go undetacted

The U.S. Posted Office gards investors establishe confide all their work for a pendid of mostly in years. Dr. Bocker a Black Boowais assual pateri number 3 278 670 on Coctober 11 1986. That means addening isotnology becomes available to anyone with weithe to use i mught two months before New York's Day 1984.

While reveals the Schlandyr not is lower any result the Schlandyr not in the any result the Schlandyr schlass and schlass a reverse yards in the Schlass and schlass a reverse yards and schlass and schlass a reverse yards and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass met schlass and schlass and schlass and schlass and schlass and schlass met schlass and schlass a

WHERE NO MAN GOES touch a control on my breastplate, and the lasers forow out their burning glare

Angeles. The day was hot but not particu-

him "We ve got his name, av Doctor Rafat Western firm Far Drod Shipping a sub up until a month ego, when he went on Webster continued to work at home for

The bell, you say Won tiell your people.

Look dame if get off that crap. You retaking about a man And two alives. Lurnoident as a lead tem. Our intruder is

Baimore paused to watch a small

holding back. Websterrs on Titan He word.

plastic webbing to prevent cracking when

shrupged helplessly Websters motiva-

"Damp! I knew it The moment I look

"Warking? A chill slid up Nash's spine We aren't going to arrive at Titan for slabs. What's he going to live on until we show up?

much sir He II be dead soon enough. The

or fiitiir

Moving? We need 4-0 weeks ratice of a

New Subscription or Renewal? One year of Oren a \$18 in the U.S., \$24 in Canada and gverseas. Please enclose a check or Understatistics Service? Onvy makes panes selected pre overfate spoered for

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transport effect is sure to trush him off

"Dit mails right i had begotien i Naai shook he head "No gave in a start. Number One For a moment here lihought we wan all washed up. Inform the watch then mitert lihe message into the log. Someday when we get to than use regoing to meet this character i wait to know who here so we can built on here marked.

The exist is philing down through rougordward doubt if any dark of light pain and dim The de plant are cold. In the decrease is not of 1455 marks and any methode see, the strategies a character and the second second and any strategies and any second any second any second any second relative productor and built in excelreductor approximate. But the excelreductor approximate but the but the form approximate approximate and the but the but the but approximate approximate but the but the but the but approximate app

These proposed reyeal up in the view of one of the monitor cameras. They know I are here. The lense is glued to use with subcater facemation. How long down to see the images to get, back to Earth from the offortol Galant? I try to figure the lag, but the offort all alon much the figures keep offeng away and before load 1 over to

I dan 19ekimy somech anymose – a bad sign – but im gradidu for he change I glence al the himter, chroneneor Nuo handred ten heuse. Gurie a respectivele record i ve balt up. The corpse that workdn tilde. They ill probably make a himne move about me I gleggle then calch myself.

None of that. Not in front of the camera

The evolutility evolution in two partners with the elyemanter points out belocation of the weaked optimizer in it are the proceeding other gal and specifications for the space out They are not brinkey heated. Thereis the hyperbolic terms of the space is a set way, very does. That last that are still are expression. The forms space is not killing me the optimiser it. The transmission of killing me the optimism is the set. That is not have for the optimism is a set of the set. That is not have the set of the set of that are form the optimism is a set of the set.

Here back and such such the understeeld in decisies, byforg fickers beging the block outrige, Locks preclara. The northin is been being to more shall than early bunches something like a subset of politike posities of the database to encode the posities where crystallises or even proton posities where crystallises or even proton posities of the state of the encoded the posities of the encoded the encoded the encoded parties finites in unconsidered the encoder encoded the encoded the encoded the encoder encoded the encoded the encoded the encoder encoded the encoded the encoded the encoder encoded the encoded the encoder encoder

In these suddenly and feel cald. It is not the stuff raid. The LS models is functioning perfectly. I'm the one gaing is pot to the transmission of the second s

And, once the news reports pass on the word that I have an word on T fan James my



"Gaucho?" arts arts

Three-and-a-half years in the making, the new Steely Dan album is finally here! "Gaucho," featuring the hit single,



MCA RECORDS

Produced by Gory Kotz, Cloud Front Line Management, Inc.

When Histen to a cassette I take it apart!

cevie Wonder

the rest was sendion as a perfection manufaction former in must determ bastudio sound. The kinded sound be card take apart.

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son will unseel the seriety departs box and ciscover the envelope. The address will tell tim what to do with it. Everything is taken care of and iteel is certain containment At long last i can rest. Its all over

Clouds ohum overhead, bloking set the sun with gloom. Then its golden rays are back and the scellbalts beginten i state into the yellow free momonong its warmin and their touch the button on my chest for the thrut and final time. Ioden of idown.

My faceplate mists over from the inside There is a momentary chill then rothing

Belimore was behind his desk, this custains drawn on the right His wan heavy restures brooded over the envelope that lay before him in threatening solation. About him stood Carson and Lakky secringly of teaching the enrop solitiers on parkets

The Titan monitor reports that Webster is dead

Conson's voice was bland and that as if estrond around the room

Appearinfly Bolimore dati nut hear A prebing Triger touched the plans and abateheatrows for level that peeped terratively from one and of the opened anxiety peeped planced up at Larker His grays were taken or perhaps only scaled "foulye seen that Well is work, what he strys here? Of were Websier use crants with a heads of back?

Larkey shrugged slightly. There are tests to mole a good many factors to corrector

"Darm it man Don't fead me that but" Find out! Get Elson off his fat can and working! The human race is in a baa, and it this is the key I want to know it. Now move! Rich of you!

The office emploid rapidly, leaving Balmore alone in the shadows. Miler a while he pushed the envelope away across the desk in a volent getture and got up to shae hits the notifi-

The levensh lights of Los Angeles glared at him taunting him as they spread out apainst the surrounding foothills.

A gentie breaze warm scentid with prios and poarnie no nother the atoma has no secont in my lowen it is new campitality and wonderbilly new the beginness that has been teering my melice explodes into dayloff as I open my week

Pane have not the linear mental coland a nutry gap of fear manages to ordep from my wooden throat. Clusteneos piches me lonvest accass the grassy lever cad? What has happened to my muscles, my coordination?

The thought Why are / alwe? attent my haad. I put the thought aside for further consideration The temptation to speculate is is a literal purerio within the

Then lise my suil it is standing by deal in front of some bustles. The partime lacing the area in more than the hedge which is heavy with immerse scarlet blockome. But I only glacos at the flowing My attaintion is have on the suil flowing My attaintion shared on the suit flowing. but the metal extensi is pitted and worn. It looks old First I crowl, then I stagger, Rentably I

First I crowl then i blagger Bernauly i find I can well again I black the sust the motal is cold it is real. I'm not dreaming Whiting suspicously I gave shout me I'm on a trit Acade from the galaxy and the bushes and the suit I am completely alone. The only sounds are that of the well alone. The only sounds are that of the well here well-bes sound in the basis.

A path of flat stories set into the turf leads away from my laughable little cot. It looks so alwar lying loopled on the grass I set it upright and then wander away the stories as my crity guide. I'm confertable. There is no pain I feel whole end very alwe

Then is see the lower the a gravite pile trusting up two basise the part with n is borror place officeol to iso base. Then it has borror a cith. A low wall or neg protects the caselines from the depart Boycon the growing theware a people with meet a city is growing theware a people with meet a city is growing theware a people with meet a proving the set of the grant is borrow to be growing bottom the grant is borrow to be growing bottom to be grant in bottom to be growing bottom to be grant in bottom to be growing bottom to be grant in bottom to be growing bottom to be grant in bottom to be growing bottom to be grant in bottom to be growing bottom to be grant in bottom to b

I stoop and look at the green-sh metal

The misception is ample RAFER WESSTOR

A funerary marker My own even if there is no date of death. But there is something olds — an envelope taped to the pletave 1 pill out is stip of paper and sud it slowly.

Webster

You do not know me but my genet." gesnotather did and history has decread that you should not be longoten. So I teel a certain familiarsy for you as I write the

The Busicelie Gaviel of This docted as to allow you to write when above to this poor more taken we take the other poor more taken writegel a second to the form of the second to the second to the taken the second to the second to the second to the and the second to second to the se

Congratulations and Welcome Home!

Christopher Lankey II Webster Ots Toinsport Net Free Toins

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Above me in a pale big the rings of Saturn gleam welcome CO

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That means that only 825 SPB units will be between Earth and the sun at any rill attail. There ever would be 42.769 square kilometers and that in bow much of the benet would be stretion. The 351al puriti assa of Earth e disk is 129.223.075 square kilometers. The disated asse smourts to 0.031 percent of that

The haut energy fating on Earth's sunkt homophore is 2.46385 × 10⁴ calcines per minute (246208 and 13 2655 if you don't undertainet look up parentific indition in a high school physics book). The heat enrgy fating on the solar controllectors is 7.65 × 10¹⁰ calcines per minute or a mere 0.000cc00000118 percent

Earth is a tolg prece of real estato no read of all think only offits part we see, and most, people on Earth Istva neuro base most people on Earth Istva neuro base place And then there were index base base And then there were index base based and then there were index base based and the theory of the Apola as bareauts. Earth looks so tray in them, a loginable and when methods estimated agrinst the based as of space. It seems we not it based the relevant on the form

Unfortunately many papelie metales the ritation for reality when they consider the 955 ayalant or any other papels of large solate technology, Ala any pilot how tag tas parter watty in 30 any other who has had to waik for more than a few dwet to get from one place to another

Species larger by far it is incredibly wast Nothing we can build in space in the new century will have any effect on it not even in facilit chart. The internetions don't be

During a recent MASA mining of species ordermanacteries in mark home peop of the mintopeak relative termination of the minitopeak relative termination of the BPB as the determinist mark accompatible exported to Muse mining waterback in productive relative most participation of the same market cost on most Romanactive and or same till water cost on most Romanactive and or same till water cost on most Romanactive and or same till water cost most Romanactive and or same till water Romanactive Research and the same relative Romanactive Romanactive

The information is available to settlo any questions about the safety and practicality of the SPS system. Anyone inforsated enough can salek it out it is time for the childs to stop working and start teaming.

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tended the years meating of the imenalional Whiting Commission the passage every proposal for reform placed before ing inclusivy went down to deleas. Werson

Given the continued absence of tougher mierreporel policing body Davies sees a sty to effect change. Watson concurs creating an international policano body

fish they must phoose between activitity and aparty as smell skytmiddes are over Bash port DO



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"SORRY, SORRY, SORRY"



By Dick Teresi

ne contractive and the set occurred-up invanta in sciences beix place in April of last year when a meeting be reduct terrally in blockshed The prince task. Karl (Photen: the

The principate Nati Present one Bankod University Protocolargeon and psychologiet who has made his republic by generating on the Exercise of laboratory anneals and then observing the ohmpart in their behavior, and Wathbell the hist chimparcolar to learn human sign language

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Though hidrarria penahari was essentaliy a success, a few weeks later he developed gangmene and lost the tip of this triger above the hist joint. Despite files he belaves primate research is important and should not be held back because it is neky 'What reads to be remembered, Pribram says. 'Is that chemps are shonger than we are and should be considered just as dangerous as boars and fore.

Figure across the incorrect non-training experiment of read (2004) which have any experiment of read (2004) which have any unter the Mitchell experiment. The half experiment of the mitchell of the mitchell of the second second second second second second on the second behavior of the and the second second second second the second second second second any approximation of the second second approximation of the second sec

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Now the heat support - and formholdes a diguta that alterness Retries, former head of NASA. This quite prosistie that he whole weaky orisis that the world now faces could dendio into magnificance. If Retries task, if each of the moviet thermes (stocul methics) are writed uppermethatily. Platcher was addressing the House Subcommittee for Space Science and Austiculation

11 as precisioned, large quantities of methane any shift concentrated in the earth at depthe that can be economically indeptied," said Fletcher, "the entire coal of the U.S. space program will have been pathed mark times over "CO.



HOW OBSERVANT ARE YOU?

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A Data American Anno 1997
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RHYTHM AND BLAHS

EXPLOR/ATIONS

By Linda Steinman

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entroliters per lag occurs when several information and boological functions become out of phase. Body temparations, for sempla, which his a low at it is well by work freach tobics and 10 are its instruments Maan Time for the New York to-London withorhou are the steep/sexan cycle. Thermore acquire and unren they without the cold that carry cut these landows without the cold that carry cut these landows according to the were tobbet - we calls and common - all of them soundly cooperations and cooperations and were the constructions and cooperations and and the them to and cooperations and the constructions and cooperations and the constructions and cooperations and the cooperations the cooperations and the cooperations and cooperations and the cooperations the cooperations are and the cooperations the cooperations the cooperations the

The body is like a crew team with a convexit. Dr Ehrel explains, "Athough each marshes in the own has a chleronr mythm. The cockeals likepathers to thous overboard. He covers will boon like the beat?

Bertilarly body colls loss their hormony when they cross info a new lane zone Persponding to different and often contradictory size. They puddenly function on their constitute disclas. "Each rhythm is changed to a different disgree, and each takes its own harm to readpath." Errer tays Servical body centers can rewrite/shit puscharabora to be boan usually revents the gravalases level of certral Boords in the prechang order on the althenia glanzis, which mesoslately packet in the labord onthered yarrand B ALA packet in the labord onther any strange body solution then to analyze to do other an laby one. The cells give tools other any gravitation to the law, which can be too the laby one of the law, which and the hop heave not registry. Every there a horn to toods

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MAN'S MAGNETIC ORIGIN

STARS

By David K, Lynch

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cosmo rays can cause changes in DNA. change of DNA induced by cosmic rays d that rosshure were an apa?

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- Byron Warren Lubbock Tex





PHENOMENA

Who's been neving attention?



Box the way Glass Miller played

Can you supply the meaning lyric? How

atland to the important and ipnore that

1. It is a clear starry right, and you see a



this is the moon witking or waning? That

175 (1979)

4. In the Lancels Memorial, which foot on the statue of Lincoln is in front?

5 In Grant Wood's painting American nahi?_____

6 In which hand is the Statue of Liberty a

7 Name the five optors on a Campball's souplabel ----

B. What two letters of the alphabet do not compare on a tolachione dua?

9 What two digits on a telephone diel are

10. When you walk, do your arms swing

11. How many matches are to a standard

12. On the American Sag is the uppet-

53. What is the lowest number on an FM ruter chai?____

54. On a standard typewriter, over which

15. Which way does the red diagonal or "no smoking" signs? _____

16 How many often nois on a standard

18 Do books have their even-numbered pages on the laft or the soft? _____





19 Hore are two dice. One has the pipes

20. On which side of a sink is the cold

21 How many orders are them on a

23 How many hot clogs are in a standard

24 How many holi dog burns ere mis

25. In which direction does the lattering 3D 30 er8301)?_____

28. On which card in the deck is the card

27 On which side of a venetian blind is

29 There are 12 buttons on a Touch-Tone telephone. What symbols are on the two

30 The names of what things are "ridden" on the back of a \$5 bit?____



31-32 There are two one eyed jocks in a typical deck. Which jack faces right which faces MP2

SCOFING 29-32 excellent, 36-28, pool 21-25 okay, 17-20, tair

HERES-YOUR PROFILE PROFILE

Here are some familiar laces and figures. In which checker dottey face? Are they looking to your left or your right?

- 1 The Carrel prosteties carrol
- 2 The Monton call gril......
- 3 The Ford Mustang
- 4 Alled Hishcock's self-cancelure ____
- 5 The Playboy burny _____
- 6 The Mone Lea
- 7 Whisfler a mother
- 8 Johnnie Walker
- 9 BCAs His Master's Voice' dog
- 10 The Arm and Hammer balong soda
- 11 The exple on the Great Seal of the United States.

- 12 George Washington on a quarter
- 13 Goodyear the (winged foot) integral
- 14 The Lowenbrau Ion _____
- 15 The Mercury Cougar_____

FOLLOW-THE-DIRECTIONS OUIZ

Circle one

1 In which direction do process travel around a Monopoly boast, clockwase (c) procurrentisciwase (cc)? (c) (co)

2 In which direction does a menygo-round tum? (c) (cc)

a in which disection do ravalving cloors turn? (c) (oc)

4 In which direction is the usual flow of people around a skearing mix? (c) (co)

5 In which direction was the charact race in Ben Har? (c) (co)

6 In which direction do tornadioes and humcastes spin in the Northern Homaphere? (b) (co)

7 In which direction is water supposed to drain from a sink in the Northern Hensphere? (c) (cn)

B In which direction do mais people spin a huis hoop? (d) [co]

9-What is the direction of fraval in the Indianapole 5007 (c) (cc)

10 is which direction do the arms on a Nazi swastika, point? That is, in which direction does the swastika is center appear to be luming? (c) (cc)

SCORING 9-10, excellent, 8, good, 7 fait, 6, poor; 5, chance

Answers on page 116

ILDIK'S UPDAT

Although we clich task for it several readers and in phans for a hypothysical mechanism that could be analog hubble. Cube Deplember 1900) While many owne out with ingenous depine that mpM work, no one reinvented the actual mpM work on one reinvented the actual mpM work.

The 41-Intoxe solution we menitored was proposed as a conjectua by Morver. Thetterheads of London's Polytophra of the Bostin Mark. It has not been confirmed the bost-shown algorithm is a 63-Intoxe solution, algorithm is a 63-Intoxe

Lake all any review biols of holyworkso (the Sick/T Burk models bit holds of holyworkso) advantion this hoatse. Nations on the Magac Cober wave revended as a walk of our column. Beginalister into united throughow how boars all factors with "schaft is thurship" outse adducts, one particen near even had to stradepoly for it.

For most people is caller can be discovery is more reports of inter referentions of the second second second second power that there are large any second power that there are large any second the second second second second second the second second second second second the second second

Kiteli Roys, which markets Rubik's Cube, has recently published a "solution", avail able from ideal at PO. Bax 22, Holits NY 11423, for \$2 (New York Scate leadents add the regraphite spike tool.

Hilling we note the troats discovery that the permutation of the corner packs of Rubik Clube exhibition of the basic properties associated with quark contimement. An atticularly Lawsenzy of Southant California Protestor Sciences W Southant California Protestor Sciences W Golomb "Holdwik Cubie and a Model of Quark Continement", is being prepared for publication. DD



LAST WORD

By Art Dula

 As rocket fuel, butter would put the federal support program for dairy products to better use ? A practical in the proceeding rights (12) as summarized the second secon

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Art Dule is a Houskin-based informay where practice is devoked inculusively to serespece and techniciti law