CHINA'S PSYCHIC CHILDREN

BRINGING DINOSAUR BACK TO LIFE HOW SATELLITES FOUND A LOST CITY

1985 \$2.5



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CONTENTS			PAGE
FIRST WORD	Opines	Ban Bova	0
CARNERIS	Contributors		13
COMMINICATIONS	Conspondence		12
FORUM	Dialogue		34
SPACE .	Convent	Joe! Dave	13
BREAKTHROUGHS	Technology	Billawan	20
ARTIFICIAL INTELLIGENCE	Computors	Trr-Oroska	24
HOW SATELUTES FOUND A LOST CITY	Explorations	Bit Lawian	20
CONTRAUM	Deta Bark		22
DINOGAUR CAPILLE	Anchi	Charles R Pelegino	30
WITH VIRGE, CODUM AT THE EAST POLE	Fiction	Harlan Ellispe	44
THE WIZARD OF DOZE	Pohis	Rohard Wolkome	47
LAURELS (AND HARDYS)	Ignobile Proves		54
CHINAS PSYCHIC SAWNITS	Ande	Marcello Truzzi	622
JERRE LEVY	Harrige	Jo Durplen-Smith and Dane deSimone	60
MICRO MOTION	Picipital	François Leezy	72
FLYING SAUCER ROCK AND ROLL	Ficher	Howard Weldrop	80
ANTWATTER	UFOR, 490		86
STARSCAPE	Phenomena	Ohis Newberl	112
GAMES	Dwartions	Seet Moms	119
LAST WORD	Humpr	Terry Runie	199

9



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FIRST

By Ben Bova

A manued space station will assure our carificued loadership on the high frantier. It is the next togocal step for the U.S. space program.⁹ This time products interval became in quarkalien herein quark on Earth tooks. They see particulty traumation out you are an effect approach, least than four Yourshouth to disc rathin in demotes in About 1 belion of them have been interplaceband on here repain remissions of the papers shuffler. They are ap the heat AI hallow of them weight stightly well that AI hallow of them weight stightly well that an annual

The microspheres will be used to calibrate such precision repurphent as electron microscopes and madical devices that tount the onlis in a nample of blood.

Introduction with particular test and a current of the standard st

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In the Shall analysis, the new industries, pice and carrier opportunies percented by the toseos station will pay handsome divising so the nation. The space system is a partiliable venue for Arcsis.

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CONTRIBUTORS

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In: Disosaur Capsivel "on page 38 Brochtwert Nakonal Lubernitory pationloogies: Charles Al Palegrino who designs studies for the industrialization of spake provides an exclaime kold. Whe life forms inclased in amber All of this means white geting disser to reconstructing cliniciaus and other circulausa from primordia DMA.

Arcard backers come as no suprain to microbiologic lay midiagula with to been these primitive costates an at the one of all lee Marguing in tart tare historiation torgo are extinationary theory that writight backers that devined to form well, aprobation that they do back to the devine that they do back to the backers that devined to form well, aprobation that they have the target that they have been been as a the target that devine the target the second to be the target to the target the backers and the target to the target the target target to the target target to the target target to the target target target to the target ta Froductive wear Rotace Robover profiled the contravensal evolution in The Woard of Data, Bogen right on page 48. Merguine not a conventioned searchist, the asis "She is very paraximistic account feet work and when she take the mover transidged to subject the a signifying that Dhan that other subject the a signifying that Dhan that other subject the covers the rotace control very as the oversitile rotacities contovery as the covers the rotace.

Where contrainers is concerned though Marguis doesn't no ho only gene encond the Propie's Republic of Christ belogation are examining children who claim to have a spacial life force that allows from to leaded objects and read minds.

International in gathing to the bettern of these incredible claims. Menoitic husz: a spoologist at Easthern Michigan Liviventity gened a fact highing lour behind the barriboo curtism. He watched the chicken in action and spoke extensively to Chickee coantists convinced the powers were east

Tructs report, entitled Chrisis Hydric, Swamin (page 52) discritices the tracer atmosphere surrounding the mystery children. So far tve sean no solid ovelanoo for these special powers. Trucz says. Bit should such powers the authenticated in the future science could prior a whole new sphere

As Chrisis internity: children indicate dubicus acismo is alive and well And this year's salue to the offbreit the outsil groups, and the cincular has been orthorinated by treelance writers Primk Kendig and Log Back The result of their efforts or annual Landis Eard Hardel Theoremasizes the photons of science, who need ourcus machines abpaire need horized might an in-might bitle, or sat plant blunder about in recognism of such impedments to progress. Drive ensurement is wanted, abiting on page 64

As "Cauce's prof Headwork" cauperies regresses is other heads in a packado of weaking the back from the public hange packet discovery insplated in 1 angle approximation of the packet of the packet the sun codor set a pock lead on the rete the rear would be derivated in take power thus begins in 5000 years of coordre-up ero of howard 7 darget one of the country's howard 7 darget one of the country's howard 7 darget one of the country's backet groups on counter, chronicilis the progresses of occas use, tions that feawards of times derived have backet and work of times derived have backet and more country of the two being one country of the two beings

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LETTERS

COMMUNIC/ATIONS

Warnor Beasts

I was elated as usual with the cumint

mic Bestary" [September 1984] Mini

But one thing bothered me. His critters all seem to be formidably armed carryones. besielars-the pig, cow and turkey types?

proy on one projher? In their case, with

Polution Submerond

I found Phoetra Hoban's article 'Sponce Power (Resettrougts September 1964) very clearesures. The problem and of other events today. Water polybon from the and article successly underweiter combusionclassed by the exhaust from these 's bmershies alone would be drawsisting

Vertees," by Erc Melvas (Administr October 19841 Ltake issue with the state ment made by Dr Hemphil and Dr Zabow that vertones are a possible cause of

sional vamprologist, or even an amiliau

With yory few exceptions, vampiles are hetory they are tearful of mesundenshind and cautous in all the oversitivy vertices down from unpleasant confrontations.

menormible verges who attempts to severing protein blood donor if that doesn't work, tak the matter over with the variors

Jan Welden

Anno Dety Linen

Leto net their year alreaded base allowed Mary Leakey to use the Earth column. Disvertiset 1994) as a cistinging on which substances in any story aloout the character

I wan to think you for Patrick Huydhe's artcie 'Sell-Harry Mond , Luk 1984] For years I had thought that I was psychotic because of the pan I feit I needed to inflict I am presently sections psychiatric help and am on the road to recovery Thanks agains for your up to date insightful, and helpful article

DIALOGUE FORUM

Providential Environ?

Are you asking us to believe that President

pricke in progress that will allow Walter Fee weinen

for what scientists are saying about

other returned warden manorises that we match presentinghal power over the course of

key 1964 Internetw economic Wassely 14 CMN

Resource made to a question posed during commenting that the growth of computer against on lessure activities. Those their

the most intellectually satisfying magazine Michael Zołtowski

Populations Pasce

[First Word August 1984] Kafry Keetons bar 1984); and James E. Oberg's constant

I real ce that you offer differing comone

which is trying to get us ready for the last

the new machines. What about the poor has the job to fund any activities, leasure or

most crimes, ranging from meutamaiences

Kacks for Keeton

resons arowing scientific listenacy (First Word October 1984(I Even though a few of

adap is the most wondrous of all human rendemicra

Andre Recard Newato CODO

ESCAPE FROM SPACE

SPACE

By Joel Davis

shuttle spins out of contini as it are unitiant, but four space-station provimembers have been esticately mured in

mailunation during the Gerney & mession, in 1966, NASA and its commission have

was called MOCGE-married cristal operations safety equipment. Developed In Contral Decision in 2000, 4 years designed beidenth a rebeccart stupped to a dautified and fire a portable retro rogical Web

the shuffle and a capavile called the rescue chambor are invited it's meant to transport astronauts from a cropped shuttle to a nearby second ship. This is the only way to transfer astronauts from one ship to

NASA is currently developing a prototype of the ball. Measuring a motor in diameter, W. CMN

window II houses a 30 minute supply of

The solution depends of course on the

NASAs Tarry White supposts that there may be some land of rescue capability 1k together to form the station. A shuttle



the module and place if in its cargo bay module through the arlock and than into

I something went sour the crew of the station could duck neo an intext module.

ravex ameni of a shuffle A better upton.

salaty equipment system. Devised by Roland Mayer of Deneral Electric MOGES is a scaled-up version of sale Me necessary

MOSES is not designed for comfortmeters in themptor of its base and a life persons though room inside would be

the one- to three week west for a shuttle

space shutfe's cargo bay for emorgence use a Meboet of sorts. According to Mayer two wears at a morement " Mower would like to see NASA make a firm correntment. to this space-reacye system Desorts the backup systems have been added, the

There are a significant number of poten tel calembes where you either reacue ust don't bother to at all DO

CERAMIC BEER

BREAKTHROUGHS

By Bill Lawren

I was it backsige dromonin Low Angrees and come of the low an it keep in human load to the wide how and it keep in human load to human it have availed on a garrer on TV. We that a data the all washes constrained these classes, and we wide it works of these classes, and we wide it works of the classes and we wide it works of the classes and we wide it works of the classes and we wide it works of the help classes and we wide it works of the the classes and we wide it works of the there is were all classes of the classes of hardworks it have the high a class the articles it hardworks it have the high a class the articles of hardworks it have the high a class the articles it hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the articles of the hardworks it have the high a class the high and the hardworks it have the high a class the high and the hardworks it have the high a class the high and the hardworks it have the high a class the high and the hardworks it have the high a class the high and the hardworks it has the high a class the high and the hardworks it has the high a class the high and the hardworks it has the high and high and high and high and high and hardworks it has the high and high

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At the offices of his new employer a los Angene beet demotiver. Cause, whose cowday hal 3th pound gith and septosus been meet in more live a prospectar than a chemit, isughs as the rocapid-lives Becersore is introly. Interry inget bought was solerup at a perior tics, he rocab. But the next day i port to therking about in-attour as contention of ingenese and hardness and the wey's sole up so guidby—and the wheels started burning in my Head.

In the 15 years as a common otherwise, Case occid evention for to solutionee, web ential properties. Four months of means a body research, convertes of means and the properties of the solution could need to be a solution of the solution moved into it. Toold my Service, revealed my moved into it. Toold my Service, revealed my element encount of the solution of the solution moved into it. Toold my Service means the element encount of the solution of the body and the solution of the solution of the body and the solution of the solution of the body and the solution of the solution of the body and the solution of the solution of the body and the solution of the solution of the body and the solution of the solution of the solution of the body and the solution of the solution of the solution of the body and the solution of th Makerg i batter maart (byrng with is omford in the batter), single winds is conforced one of grouws here paielises of the second of the second of the second batter of the second base of the second base of the second base of the second base database contracted control version for base induced the patient of the second database contracted control version for base induced the patient of the second database of the second base and it is with a base induced the patient of the second base index of the second base and it is with a base induced the patient of the second base of the second base and it is with a base, need in 30 minutes exerciseng the need to experime and combinations with

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ont instalation consultant who totaled Beestorium into Northrodge California tabi Tita onto just ino nassiani i is frequeori Tita onto just ino nassiani i is frequeori conditi that a borne au a inplacement for conditi that a borne au a inplacement for constrain borning and is softwarteriori being considered by several Hollywood tactices for use all broakweyse. The forappear webs theologith which stantmen must contrastile por them fields.

Decoursecret have already biggen with POZ Corporation of Dorver a Phatee Dodge subsidiery that manufactures storage partiarily a lot of people bodying for ostutions to the storage problem: says POZ's Don Berghauser. If this material performs as indicated in courd have great potential.

Case (progress is number of other applecases is of basentine including (apple) rooting lite and nonferrous engine blocks the obset currently being pursued by Misubast of Japan mgh reduce the need for coding systems in submobile. But owner with all these political applications disabledge Charac can finked only one "For the test three worker while US cetting heads, particular Character and the being CharacDO-IT-ALL DISCS

ARTIFICIAL INTELLIGENCE

By Tim Onosko

Thought of an early dead only a year tigo the videodas around to have neward packly and mnootough year though RCA has stopped meruliacture of is meditive and groove dea system the laser read optical videocho appears to be n a before position solary than at any time since pix strobation in 10%

Vedeolosis am incontine patram beet week transper A angle tim Can address week transper A angle tim Can address week transper A angle tim Can address and probat The vedeolosis on dayars however may recibio timitary as a mosimatika canterinaeuto-in moders, an ananya can be and a contacto posterio, an anyata canterinaeuto-in moders, and anyata canterinaeuto-in moders, anyata a computer-interactive programs seem headed for the living room

Roto Dyer: a designer who worked with Buth on arceide gemes has been ditted to inc. to sall Haloyon a monocomputer controller for Poneer class physics. Although it has a keyliciant. The primary with to communicate with Haloyon is to openal with a monophone controlled to a Unexponde not in video text or graphical but in an absorbin-ably userfileazed video.

With steep price sign for both the Hakyon haroware (32 200 as a system 51460 as an accessory to an existing beyon in it autware (380 to 5100 bit games and advances disc) it is unclear who will by the machine. In Japon however, however has already introduced to sen videot so compare the IP-7.

This mero based on the popular 2 do processor (the tray chip at the heart of he computer), can coninci all the functione of a dap payer: lead in programs threshy from the videosities and overlag test and graphics on top of full video from the disc. The RF 2 when task the approximately. \$450, can also serve as a subliting device on Roman letters or Japanese i katakana characterió for longs language programs or movia. The computer is expected in the United States by next sonro.

The other visibilities have thank is note a prime visibilities which is B, instead of 12, inches in distribute. Amend manny at Be visible makes that the distance and bit fift can contain up to 40 minutes of programming that as fully obtained with exempt the playars. More notes and programming that playars have notes and professional programming professional programming professional programming and programming the playars and professional programming and professional programming the professional p

NEW WARES 'HARD AND SOF

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Poncer's PX-7 ases a recordine reproduce to oving "real work?" scenes to the computer scenes 34 DMM

MAYANS FROM THE SKY

EXPLORATIONS

By Bit Lawren

Okahoma businesisman sead a megazine ton that was searching out Marian runn to archaeology seemed antiquated "I

Starting with \$250,000 of his own money Fiales sal down with geologists Slephen detected with orbiting satellites. Using take in the surgle follage-warehons that were

potential sizes. To further sincourt the Ultraprecise peopliphical positioning

recorne of the walls ran as long as 40 miles from Chatternal to the stand willings of Maxa in that area

Kunnok with so-excited i says Prucha



Using photographs from orthing swhelling, manarchers depowered range from a lost owigebox

thinks is a new picture of Mayan agriculture Some people twee all the Maya did was shish and burn" he says "But these walls appoulture and a far prester population then of theil population. University of New Mexico Yupelan now theses they the Meyers Extractioner may have nearbord or 35 million h

the arran that had been lacked by the Dependent which had been decovered in because the archaeologists were unable to accurately for its position. While not

But the highlight of the expectition came Falles had himself lowered onto the pytame you spinning around and around " But once large and previously unknown Mavan site

a matter of locastics, money and internetional seam remains pleased with its findings "We were elated ' says Frates. "We were least the burdled wasts 'DC



CONTINUUM

COCAINE FIRES

Coopering to its arryshology the large device of the operative the includes about the inclusion of the operative the inclusion about the case of the inclusion and gives therein you have a set as an operative from those and set and the inclusion of the inclusion from those and set and the inclusion of the inclusion from those and set and the inclusion of the inclusion inclusion. In this way that in the inclusion in the inclusion inclusion of the inclusion inclusion of the inclusion set and the inclusion and the inclusion of the inclusion set and the inclusion inclusion in the inclusion of the inclusion set and the inclusion inclusion entertainties in the inclusion set and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion of infraud and the inclusion inclusion entertainties in the inclusion in the inclusion of the inclusion of

We have a property of the second sec

Purried occurs shalloads and parts gradually repraced the loss south and builds process regreterisms. Medicine streamers more concentrated and dosages screatings ensures and to more than the werean titled action of 12 gitters. Toocky and dogatochexy so classical in 1502 Checkgo accessite Anne Mayers, actioners to an end more accessing action of a streamers of the streamers and and down's Lappelation against code and cooking. Negreen sit 1814, cookings the interfaction action of actionary in the streamers.

On a usine right in 1980 the line literally repidded in a cockingsmolwing accident that engulified comectain Richard Pryor. While elevaneeu users solvate their reveald occurs within three minutes and minastriaus users can do it in 54 seconds, hose who emple occurso free base first the risk in sait to exercise. Smoles who emple tolerance to blood levels fan trres greeter then intranasal usors, consume as mach as 85 grams in a angle day to newpenence the rush and avoid subsequent letigue and depression.

Assess by larger designs, the firm in the twin become so bies range that previously introden coordination-clobed affords and behaviors and which was been separated by deviced dependency. Physical designs are subject to the separated of deviced dependency. Physical devices and the second second second second second and the second second second second second second and the second second

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Before we pon the incase in secrificing our children and burying our dead with coca, we will have to extinguish the occaine free in both the break and the body politic —ROMALD K. SEGEL

Renald K. Saget a psychophermicologist is on the lacuity of the UCLA School of Medicine. He recently represented the United Status is in adviancy arous on opcomm, converted by the World Health Chastration.



someone attractive Before



SCIENTIFIC TIPS

-Enc Mahara

Aveck www.ahaboo.yoy.come -Bernard Malamud





cadenated iniciales of a Nazi concentration carea. Num scarebras state that they don't condone murder and torking in research?

NAZI SCIENCI

Should today a scennials take solvantage of Naza metical research --- research that was gathered twough cruel and infruman means?

Nax dobter multilege and mutative borns of Jave Pries Gypares and public sources of the name of sources. Source of the budget on opcommitties performed on opcommitties performed more for up to five hours in anythe fixed which powere German othysicians records German othysicians records anythe fixed which powere analyted blood and uma and inded public and response torn tiles and her men suffered and ching due and response.

The Indings of those grays experiments were published in German metical pursais that can set bus found in many medical ibstance. In many medical ibstance in movies were declassified after Work's were it and are cataloged in the Nathanal S brays of Medicine

Noticy several scientists who are studying hypother ma—ths extreme lowoning of body temperature—are ments as references for their own work

Discussion for indexision Discussion for indexision Decision and supportainment decision and a supportainment decision and a supportainment decision and a support decis

Analid Bernet, a physicen who serves on the Jewesh bhost Weddal Study Group, in Philiedelahis deoptres T am cheginned (socientiste) wold refer to those experimenta whout methoring something aloculties without relatingion was obtained. If stowe a ach of schoolshol Anrick Perinan, editor of The New Explored Journal of Relations, addition The queed both at Should unetrical users to be published if an publish a and Local Shread bodh by published in Analy and both and the shread hould be published in Analy and both and the shread and any concession both and any concession both bond by the household by the harm concession be assessed by the harm concession by

But University of Vectors solaritat John Howest cofends reperchers who had the Nan data tephol. "Wy poblemma tephol." Wy poblemma second bread and kens and nano deng hypotherma second bread and kens and nanos term put on the spot at being told we are scheduler understall we are scheduler understallt

SAFER PLANE SEAT

Your life depends on your anothing soal, warris Shart Millet a New York City svistion consultant and commencell pilot. He has designed a soal system to save article

Recolumnity, a carated pairee remains index. Duri or impuse, seaks no from the cation floor and collade in a jumble "Many passengues" white says "They can't mecuate the plane purkly, and if there is final they can from applyingtion." So instead of the "Integrity element backs to tablemed. Miler says, he assit would be securate backers to a floor." of lough. Space Age com-

The event intell would be a well-calahored, form fitting unit with both shouldar. Instrees and sear both Physical energian would tamain upright Miler explains, raitboot of assuming tably showed learning "crash poetion" which courses an injury when a leaf personger hit heat as volently thrus against the seet book in torus of him.

Millior works that explanees should also carry smoke hoods' to riter eny smoke and loso furnea for up to 15 minutes

To the most sensiove and legh-acuted man in the world as should limit it hand to beyve, shall we say, the waving of a chantond ring on every linger.





Should angle or assess be more analysis boling dawn?

CONTINUUM



cegary wirecase can be kiney only by Estimoto buc unor recently ivory parching had a way of getbog amound that iow

TUSK DATING

Nony possiver, a why lot grown accultanted to cocurrenting the Endalageted Beecee Act of 1972 with reasonable ease must now contend with John Thomton a Calorna foronsic scientist worthy of TV's lagendary Duecy

He has developed a method of ago data y most sector blooddates from the take of Assistm whitese Ther numbers are dimensiin contraband every care get anyte five-pound aronstaned hask tagging the hop-holenging based carb hop-holenging based hop-holenging hop-holen

Thompshi wasaki toolprofilise of walke spectrophotometry as accurately proportise that make a walknuss death, however, theil patches can be larger content the jow work not allist a ancae common dotrown the U.S. Fash and Wilkille Service has used for technique to convect some technique to convect some

"We can caply distinguish between block from an anneal Maled last year and one Nieda anteness of the application of the second application of the second formers assessed at the Linventry of Californies Beckeley Ecologies of the second Male of the the econdation while of the the econdation blockstars was made last transfars, between four a van and are we We don't have to be that ecod."

Themiter, who once isbored is the onma lab of Calforma's Contra Costa County sharin is offices, acmetmes studes as much as 800 pounds of contraband wory singpad to tem by the Fash and Wildlife Service. Hos examined some 500 welves tasks and another 100 scentral whate teelth in his sleuthing and by now hats a familiar figure in courtinorms from Fishbanks to Anchorage Most ball and

(e) similar age detrig techrequests to eleptivent tuples which terbuild be tool revue to importers of Indian worky in carrier tors have a subtraction of the second state of the second technical state of the fittee of the second state of the fittee of the second state of the fittee of the second state of the of dephatmin technical being of dephatmin technical being as sub-technical being and as sub-central being

MIND BALLS

What is mm3²⁷ How and when did it work? A low bilion yeast surviver than most people time, says Bothey Fax director of the Invite the Bordutor, at the University of Marris His meanth sugpatis that the basic mechanism munderlying what we call mind is isoffblied by thy balls of protein that may balls of protein that may balls of protein that may ball the ancestors of the first mispatubbly thing balls

Fox deleves process, not DNA or PhAA is the biologe between the animate and the memmals, and he has spert the last 25 years making cell like balls of thomal protem colled microspheres in the laboratory

Motospheres assemble hemelyes sporter equals

form polymers of amine

acids and water under order order hom confirmative found on Earth. These objects consult operative proteins and optimitive proteins and optimitive proteins and optimitive proteins and the double-approximation brand, particular of the mentioned or modern bells. More proteins out here formatically in Earths here formatically in Earths here or proteins under here and the proteins out which call components out which call components out

When on the set it is properbed of microphase as each of the set of microphase as each of point and the set of the set of point and the set of the set of produces of the set of produces by neurons. The function of the brown is related to such electrical directivitypes Fox esplans, of you accept he second of evolution 'you have to accept the possibility that micro accept and the able second on the bag and at the same time is to bagan

For believes manophene can be used to soludy the brain "We don't really know which gocup in the molecules of which human nources are made is responsible for the patterns we get electricely." The tags "This is somhing we hope to learn using moloophenes as artificial molecular.

For a colleague Alexanor Phytyhylis believes hat the capacity of ammo accide to organize thomaoves into electronicity active surlaces could one day be used to make self assembling becktrap is a organic bornputers. "It's acance fector mayba thy yeas, it will be a maj technology."

- Lineb Welfac

22 CMM

THINKING MACHINES CORPORATION

City a two years ago recombinant DNA was acrecords and Wall Streets most lakinongbe research area Put together a fee well known genetic engineers a markening clineter and--prodo---a new corporation would be tom

Today this script a the same but the new buck on walking phrase a chilical intelligence (A) And the alleast buck of academe and version depicting Machiness Cooporation (TMC) a Cambridge Macadebustett cooporating that beets Narrow Masky colourise of NT's Anthrask Intelligence Laborator by and bris of the provisers of AI academe to the foundation of AI academe to the foundation of AI academe to the foundation to AI academe to the foundation of the

A group of investors, headed by CBB founder William Netwinas reportedly put up a \$10 million states to get TMC off the ground Al insiders refer to the company as the Mann and Mann Show bockuse in addition to Manuel Manieur, TMC has also acquired the services of Marvin Denicott, who formeny guided the antricalintelligence programs at his Office of Navial Research. The company's first proci-

uct currently in prototype doublepment, will be the connection machine a paratle-processing supercomputer classigned by W. Deniel Hillis of MIT

The connection machine, a successful will ad the US effort is comparing with Japan's Mth-generation computer project. The Japanise reportedly am to build Alballed personal supercomputers by 1995

7 Prought scenarios were grang to find out easith how working acress, and then make a botter (Tuby updated the dy ine time) was terray-one, some scenario a coller philosopouch of God Ampthy—and sold's as hoputer Mechanics



Minisky-Cine half of the Mary and Mary Shore, this pioneer of artificial intellement offer has his own competition matching, competi-



In Chinal beauty is in: For those tess fortunise Wan the inbove Other new condones nose jobs and nar and buttlek adjustments.

CHINESE NOSE JOBS

Backin the Bates, when there's public root/Lefe was in All lowing, any empty lots at a robust public lot and any empty and lot any empty and backet backet backets backet backet backets and age, backy a back any age in China According backets and any back backets bac

All part if a story describing a wet to Cathon's arwing University Hospital, the Streng Nees wasted histototick about the pysial bables anyony. This a physical bables anyony this is a physical shape has portunity and anyong any provide any story and any provide any story any story any story any story any any story the story to provide the cause contrasts exapty can bable any of provide the cause contrasts exapty can any story any any story the story (or provide the cause contrasts exapty can any story any any story "Berpherrigh:" said the Mess, "even a grifs breests cen be remade. The [new] breast not only bears much tesemblance to a real one, but it is all but the same to the buch "--BRI Leaven

" the past never leaves us, and the future is sheady bere."

-LEAS MUTUDO

These causes more decappointment than glonous realitation. Sex and religion are burdens to mankind because of their inability to because of their inability to AMW their enticing promises ' —Howard W. Rupper

CONTINUUM

FLAG-WAVING MACHINE

Ibaily Amarcana are second to nove when its second to nove when its second to nove when its membras patiented a lagwerery machine the allower werery machine the allower were the toxic of a when the toxic of a second toxic of the toxic of a when the toxic of a second toxic of the toxic of a when the toxic of a second toxic of the toxic of a when the toxic of the toxic machine toxic of the toxic percent Amercan machine to the percent halt waves a as only machine to the works a second toxic of the toxic of the toxic machine to the works a second toxic of the toxic of the toxic machine to the works a second toxic of the toxic of the toxic machine to the works a second toxic of the toxic of the toxic toxic of the toxic of the toxic of the toxic toxic of the toxic of the toxic of the toxic toxic of the toxic of the toxic of the toxic toxic of the toxic of the toxic of the toxic toxic of the toxic of the toxic of the toxic toxic of the toxic of the toxic of the toxic toxic of the toxic of toxic of the toxic of toxic of the toxic of toxic of toxic of toxic of toxic of toxic toxic of toxic of toxic of toxic of toxic of toxic toxic of toxic of toxic of toxic of toxic of toxic of toxic toxic of toxic of toxic of toxic of toxic of toxic of toxic toxic of toxic of toxic of toxic of toxic of toxic of toxic toxic of t

Boards (Mr startel cut) along the Derevolve when include the Brune markers when include the Brune markers in the start the Brune markers in the start the Brune markers in the start measure d-weetness years periodicing granthes is just a benefit of the Brunes when along the Brunes and along the Bru

*Poople giving spacches could pace this mochine not to them to sweet her flag." Bounds points cut: And the machine could be enlarged." he says, to accommodate a neety large flag."

-Enc Mehara

"Any robert can understand computers. Many do."



For the yab tsucter of 1995. Astrohemity with maps and brooms may be more important than a working knowledge of microprocessors.

BAD NEWS FOR HIGH TECH

Preparing yoursel for the high-leach job boom? Trying to learn the difference botween a warm boot and a builter? Perhaps you'd be better off femiliarizing yoursel with before and determine

That's the news from Banlerd University, where but economias have procleme that the groatest numbers of U.S. gots housing. INSX will be for parkins, not computer programmes in floot, hightech gots wonit even be obser to the top. Janners will be followed in clemand by califiers and them sales colors.

The economists: Russell Rumborgor and Henry Laven, used government statistics to antropate the Nuse impact of the technology explosion on the labor force

Of the new yets created through 1995, say Rumberger and Lawn, only 6 percent will be in high-sach occupators. For instance, there will be only 53,000 new computer-technician jobs but a whopping 779,000 new jandonal posisions. 'That oneoccupation (anitor) will create mona new jobs than all of the computer related occupations put together. ' Rumbarger says.

Value of people as conlused by the lact that some lactical accupations have a rapid growth relative further per replace. These sectorical cooperions presently employ so two people. The action "That their reput growth relative worth really translate who a kind does no the Mare

increasing we increase more post sharin creates. Runteergier and Javon sugpost, largely because computers increasingly perform merrial backs now recauted of human workings. To avoid human high unemployment, Runteergier recommends a shortened work week.

-Unc Mishan

Time is the random wind that blows above the long cornalor, slamming all the doors '

-John D. MacDonard

The entries to avoid any incase that eliminate opportunions to siry ingern "

-Lazar Golpterg

ROBOT TAILOF

Though the Bowet Union spectra model dia secondorubbia on new mbibity equament rather than consumer pools, assessment in the Ministry of Industry a looking able to have Average. In an effort Io make Russen clothes sone toathe and in bottom. Soviet scentrals have clowed computationed batter or suffer attloctorativy dubbed the PTM-IDD.

A shapper in need of a mere tot of throads stands in the motified of a huge elections doughnut. The oroughnut movies up and doen, and movies up and doen, and the stand doen, and the stand doen the deared of the necessary person of the standard of the glasted of the necessary person of the standard of a the hosper's processing do not hosper's process

The PTK-400 also customdesigns clother. The shopper polise a wyle insteaded perclotes and the mashine will perclote a cut-of-ai-and creas or autifiable to the mashine will the pattern a encoded in the punched cand. Once again in takes a feel-encibicol taken to turn the intermetion on the card into read clothes.

whather the P18-100 makes its mark on Soviet lashion is yet to be seen. The Soviets neglect to mention have the soviet be soviet Union have the soviet bo attegret computer punch locate — Next Ender



A proposed heaven study well proble whether Carl Segan is right Well therefore only a well bring about the ultimate letting troat?

NUCLEAR-WINTER UPDATE

In 1988 Carl Bagan and four other scientists perty purlimit a theory that the fouring others and formats acused to nuclear area would generable enough simple- and duel to block the suns lighttermonitist planging flarthreb a global frecos that would slil plants particular and participate primate and participate primate

Skeptor have demosed the sec called ruckater whether as burk. For instance hydrogen-born developer (toward Tailer suggests ararhal would wegit the atmosphere chean so aurlight could shine through 10 ut a concerred White House has launched the unital Maps of tederally landed nuclearwriter stackate flat could cost \$50 million over the next

"One of the legal to the nuclear writer scenario is wrether smoke and dual would actually be reacted ligh into the strosphore (above any tian obuda)," says Alan Hooth of the National Oceans and Atmospheric Administration. The higher it is "the explains, "the more charaos it temains in the atmosphere. The lower it is the greater the charaos il pote ministration."

Hearth is the scientist assigned by the White House to formulate the governments messes plan of study. The anticipated research the somewhere the same the late of the sign includes the late of the sign includes the late of anticipate as well as actually lighting locest fins and their observing them

If the theory datios up into the missary sprains for kpining all out wait has some servour stateling (invertige servours and the some optimized post could cholo with atmospheric dust gounding the commander in-sthell Arist recommission seathins would be unable to observe communication the observe communication the observe communication to observe communication the observe communication the observe communication the observe communication to observe the observe the observe communication to observe the observe the observe communication to observe the obse

"It took me filteen years to discover I hed no talent for writing, but I couldn't give if up bacasse by that time I was too famous !

-Robert Benchley

PLANT VACCINES

When the human body is attacked by an invading organizer – a vice or bodie non---a innuma system organizer steel to nope the attacker. Now a new poor of nasaach from the Lowersty of Caliform at Devis indicates that plants may no mession by peets.

Duris entermologials Roma-Carey placed 16 Inmain Gurth Bernald Tarlow (Care) (16 Inmain Gravy placed 16 Inmain Bernald (16 Inmain) Bernald (16 Inmain) Bernald (16 Inmain) werb Midd (16 Inmain) Mark 1 tool days Harminas werb Midd (16 Inmain) Bernald (16 Inmain) Bernald (16 Inmain) Bernald (16 Inmain) Inmer Hana werb All Authinas Inmer Hana werb All Care, Toward Hana werb All Care, Toward (16 Inter Ind) Care, Information and Care, Inter Hana Care, Inter Indones Inter Inter Care (16 Inter Katon three the presence of poes might generate which is calls all woundry response' in plans. This response in turn trappers the production of an unknown substance that he says, this the effect of historiang the subsequent population growth of the pect. If this a provide to include a plant agained both public and plant

Noticen costoris that it will be acrea there below votice plant votorines are unal able to lemmes. Frank to be objected under teld conditions. Then he away, "Twe gold to correup with some maker way to involute the plants. I conmition on their plants and remove them overy file data." — Bit awaren

"A poem is a pheasant." ----Waface Stevens



spicer role up close. When these creatures associate collon seedings the plants apparently generated a "wounding response.

CONTINUUM

SLAMIC PRAYER

According to the Botter model of the Stream of the Stream Model in the Stream of the Stream Model in the Stream of the Stream percentry the proper monthle percentry the proper monthle and and its with the Stream of the percentry the proper monthle in theme countered stream of the countered stream of the Stream in theme countered in the countered stream of the Stream while discussion in the pubhand of the Stream of the Stream of the Stream of the Stream of the learning of the Stream of

Where it fast carries to the occurry it had grant data for touche elemenary it is power payse for touche and period touche and the period touche and the web a built modern and with a built modern and the data and the second and the second and the period and the second the second

Fattouh's portable, paimsize proyer clock cleans up all the uncertainty. Its 4K Increprocessol is battery powered and pagemmed to 200 cees around the world. Never models will inmean is capacity to 200 and 600 othes. As it push a batter to enter the local time, data, and day you happen to be in, and the clock will deplay the appropriate payer hours.

Byou are in a location so obscure that its not in the clock mamory you can an levy our latitude and longhole and Partschill clock will guine everything out for you. The device buildes cook as earning hild paryle three is approaching and buces agent all the device buces agent all the device locate decore to stopp-or compass that can locate decore on allow

The first 100 000 of the this payer clocks work on safe in Souri Arabas last fail do mg hadi, the annuel Mostern planmage to Mecola. They sold bor anound \$75 a pros Fatouth hopes evenual ally to lower — George Nabbe

×

Now there a a prayor clack for the Moslere on the road



Bod never for according surging an piece. When Purty-yes an old many meets Swing year old female, the latter may not be informated

BACHELORS

We all know the following allow a kind working pet to bo of a defision age — say hereby sealth to throt-hina hey became alexander hereby age to throt-hina hey became alexander heavening the patientical heavening the mails counttop are made and the heavening through the envelope patients as all going women eagle to many out of any allowing the same head in county head and in these men head and in these men and and the coh?

Wrong, says all Scheppler, of the University of Fonda, who just completed a thudy saking woman and men memod and single how satofied they are with their the styles. She surveyed two age groups—twomy free to twenty-servers and twestyeight to finity-two

The olds' single men hearty card to thim y-two constructed the most disasteled group I looked at a newaka Schepaler "They don't want to stay angle. By contrast, angle where all the same age where among the happest with the the schema They had anamed what they valued in 16—concet benchings, freedow, privacy and concord (mark). Bookang of the more control of memory, the control of the control of the memory and the the part porticity of the memory and the set of the control of the set o

Even so, all respondents reflected the opmon thet momed people are more satabled than singles. Even happy singles guessed that other sayles were destefied and memoid people are probably happer than singles — Boopa Monsari

38 CMN





Ancient genes and bacteria embedded in amber may one day be used to re-create prehistoric animals

The product of the second seco

PHOTOGRAPH BY LEE McELFRESH

The amberized insect may be a means of bringing back dinosaurs and studying them face to face 9



The hards of phttenhttpgass digget (b) to geometers of thether it have always, And with them emerged the potential to literday no-crede the post. Among as it sounds, answert backens on and in the liter may sittle capable of inproducing interesties, and in the first geometry. The second capable of inproducing interesties, and in the first geometry based on a capable of inproducing interesties, and in the first geometry based on a capable of inproducing index geometry. The inserted heavity is dependent of the second heavity if we do not heaving of indefining the ways whether

Allocation arms (sever) has been have in the rend hereage and it been been the rend hereage and it been to be the percent and a small percent of a severe that a small percent of a severe that a small percent of a severe that a small percent of to the severe that a small percent of the severe that a severe share severe the severe that the severe the severe renders to be another is different if a or approximation of the severe the severe percent of the organ to be been the percent of the organ to the severe percent of the organ to the severe the

Insoci-bearing amber a scarce A moth fly (kp) and an ant (bastern) Josh 40 million years old ware found in northern Gamany in creat



caloum could enter with it Because of the, plants annuals and bacteria encased in amber cannot dissolve into their suncundings and be replaced by minonals When we view an insect in amber, we are not wewing a mineralized could in a report immel but the prime/lized

Grantial, the returns organs, cala and chemical mechanismy the properlied them have other calibated and determined in spits of their amber carang. What survives in those cases is a murrary of the organit mesc? I as while calibrative body hed together by the surrounding mesn. manue of natural presentation found nowhom the exerct in con-

My own involvement with amber began in 1977, when paleontologist Gerard B Case brought me to Saywile Average Joney Them Period discovered the unit of a Birmline year and lake and loss a work work with the tredid junced can write the units the uncevered an amber rugged the might cally as one of nearth todael and mark water. In the uncevered an amber rugged a hyber call as a hy beirging to the amber called a hyber call and a second and the purkes or theragy or a constraint of the second and the first we funct a second by this are being to a lab call and the first we funct as second by this are being prices to have being and the first we funct as second by this are being prices to have being and the first we funct as second by this are being prices.

Two years after my frat viait to Casels og witis slong oppnyounger more avpondable peops of omber from the Dominican Republic. I began to ancounter mummiska unaccis whose muscles and internal organs appeared to be preaened in microscoppic detail. It was as if hey had been alive the coto before

Some months tests i leverary insect participant Grange C Pronz J. - and Raterna insis topper examines protetionages and and the set is topper and example. A set in the set is topper ained Borners, they reported non-off-the set of Borners, they reported non-off-the insist of borners. They beaution and the insist of any angle of the set is set of the set of the set of the set of the reported not least of being media. After all media any angle of contraints the prointed to all set and any angle of the insist of the set of the set of the angle of the set of the set of the set of the set of a set of the set of the set of the set of a set of the set of the set of the set of a set of the set of the set of the set of a set of the set of the set of the set of a set of the set of the set of the set of a set of the set

The angine tools to successful entrantion and persention of anoset DNA do not at DNA at the tendows rate of one nucleans as another of DNA molecule perchases as another of DNA molecules pertition. But the printing out of works animate that have been print millions of nucleocote appendix the printing out of works animate society and the printing out of works animate percent and the printing out of the percent of the percent percent and the percent of the percent of the percent of the percent percent of the percent of

There more closeds of technological detance and we may be able to exist? and wate DNA from the field administration and wate DNA from the field administration administration of dropson. Show both the field administration and the administration parallel coole of creative known only technological technological in the parallel coole of creative known only technological technological in the parallel coole of creative known only technological administration administration of technological in the parallel coole of technological in the parallel techn



FICTION A wordless stranger shatters an ewle's solitude BY HARLAN ELLISON

WITH VIRGIL ODDUM AT THE EAST POLE The day the crawled out of the exist calls before, the global calls are comparing down the grout calls where say grower undistance works interf. Stoped on thereads in throm within Memorania of crapted characteris sitemen in the comparing the same of the same site of the same same same same same same same hat you wan find with The charactering the beners of the UV langer in the persuit blob of person strenger. The same same remembers globally want the charactering the same same same same same same same remembers globally want the same same remembers globally and remembers of the UV langer and the same same remembers of the UV langer remembers remembers

He stavled loward me and the ancient tux I called Amorithe Wile criwing Instally criwing up the land bridge of Westgeromo Medizion Island Through the stash and studge and amore mud of the Terminator's largest stand

His heat-envelope was fillity and already catching, and he tone open the velocito mouthing without regard for saving the gament as he crewled toward a rothing clump of spikeweit

When I realized that he mended to earline plant. I moved to him quickly and crouched in front of him so he douldrilt get to it.

"I wouldn't put that in your mouth." I said It II fell you."

He clicht say anything, but he locked up at me from down there can his hands, and levers with an expression that said if all He was starving, and if i didn't come up with some immediate alternative to the splitwead he was going to eait if anythow even if it halos here.

This was cirry one handred and meeteen years after wind becagit the venders of the furnar race to Medda, and hough I was erving a term of persinence on Meddatem label (I water) so use I wated to make foreds with another furnars beerg I was toway a terd enough time just communic carry with fueb I optimized within water to see obspite of his label — even in a strait a will any as bed responsible to severe if which are to be approved to the severe if a

Furry the trings that fault through your need I terrothese II bid moment with their booking at the to chapterially reaching a commonling one them II was a real finder alteration theory was considered and the about charcosis with a long line of basis about charcosis with a long line of basis about charcosis with a long line of basis makes performing to the trinear basis basis and the topic dying diad with one cheek hand with on a basis posture at the gay on the long in earthing and saving balter they can be earthing and saving balter they can be earthing and saving balter they can be earthing and saving balter them.

Lebeloft think be clifted it too furney.

So I pulled up the splaveed is the wouldn't go for it before I got back and I tranted over to my wokyup and got him a ball of peeruit cheese and a np-off bub of weller and came back and helped him of up to eat

It took him is while and of course we were covered with pink and white sponsit by the time he finished. The smell was awful And he learned on me walking back to the wolkyup I laidh middwrian my ar matrissa, he obsed his eyes and fell asleep wimedanly Maybe he tarted I duritknow

His name was Virgi Oddum, but I ddint know that, either at the time

I dott ever know much about tim Not then not later not even now its furity how everybody knows what he dot but got why he dot it, or even who he was and until everthy not somuch as his name notifiero.

Indiawy Treaty resert it. The only reason anybody intexes min to bacause I knew him Vrigit Oldon But they don't care about me or whet I was going twough just him be cause of what he dot. My name is hogue William Ronald Pogue lise rogue and him mounther to You should know names

Joson was chosing Theseus through the livelight sky deeply over the Terminator when the wolke up. The clouds of dead balancer spores had pessed over and the sky was amber again, with bands of calor weeking.

> Arnos the Wise let me know that this was a very holy creature, this thing that had crawled out of the loolands, and i'd better treat him pretty line, or else 9

across the bulk of Argo. I was trying to talk with Arrors the Wase. I was siways trying to talk with Arrors the Wase.

The encountrepologies at the main site communication with the site sistenciendy. To start durated creater if have of a distributed entropy in the site sistenciendy in tables and the endot creater if a have of a polarer. Tweads of and site of one of the lass and the endot created in the site both King with well be other well briefly. Don't durate in the both King with well be other well briefly and the first site of the endot of the site of disposed with the other well briefly and disposed with the site well briefly and the disposed with the site well briefly and the disposed with the site well briefly and the disposed well be at the site of the site of the last the far site briefly and the site of the disposed well be site of the site of the site of the last the disposed well be site of the site of the last far and the site of the site of the site of the far the site of the site of the site of the disposed and the site of the site of the site of the disposed and the site of the site of the site of the disposed and the site of the site of the site of the disposed and the site of the site of the site of the site of the disposed and the site of the site of the site of the site of the disposed and the site of t

But twes all fait Like a downa done with enomous expertise and no soul. The arrengement of it oughts was rendern without continuity without flow. There was no octor no neppetation, no serve of what it all meght for the charmids it was artifets and grace less it was merely data

And so trying to "talk" to Amos was like trying to get a computer to create original deaply materingful postry. Sometimes I had the teeling he had been "assigned" to me, to humor me to know me bars."

At the moment the man came out of my workyap, I was trying to get Arres to cold my workyap. I was trying to get Arres to cold y the wavait material of the brazy start that Arros and his state brought of as Mostmal Grandtainer and Hatenail Grandiativer from the tuman colony they were Prirous and Hele

I was trying to get Anos to understand free and the emotional load in changing colors when the double shackow follow therein us and I tooled up to see the man standing behind min At the same moment I tool a lossoning of the elecasis between the fusiandme. As though nome of the mourning statem were loading of the elecasis between the fusiandme. As though nome of the mourning statem were loading of the elecasis between the

The runs slood here university weaking and hying to keep his belance usering an Amos The tux was daring back. They were owned weaking weaking the slow store to the start of the slow shows the definited bases affect after they we dropped definited bases affect after they we dropped back bases affect after they we dropped inter the backstore of the slow of definited midi affittes in my snews of back back accord affittes in they weak back to target affittes in they may back back to the shows the slow of the slow of the shows the slow of the slow of the shows the slow of the shows the slow of slow of

As i stopd up the started to fail over still too wesk form creaking out of the lockands He fail into my arms and I contests my fait hought was arricoproce bootuse row I knew hed be another thing full how to worty about

Hey hey i said take it eany

I helped him to the works up and put him back on the armstreas. Latent wild 't as and 't don't wart to be oot about his but. I mouthere all store paying my time i don't gut another alignment of abors for about four months and i cash keep usu here.

Whe the half are you? What a you come

Wetching me. I used to be able to read expession very accurately. Watching mawith hated 1 (drift even knowhim. He (drift have any skea what was what, why has out there on Meditation (stand, there wasn't any memory in each do be to

54hwid you get hore?

Wetching Not a word out of him

Laser major there is no g and atom of 1. There end any way I can get vasi. And with englosely to cerere and get vasi. And in a completation And in not going to be vou say there in the same in franci form. Second the a welf-is yours and a Nel going to go incompletation. And well and the same is a second atom of the same is a second being to be incompletation. And the same is a second atom of the same is a second atom of the same is a second to be a second atom of the same is a second atom of the same is a second atom of the same is a set of the same is a second atom of the same is a set of the same of the same is a second atom of the same is a second atom of the same is a set of the same is a second atom of the same is a set of the same of the same is a set of the same is a second atom of the same is a set of the same of the same is a set of the same is a set of the same of the same is a set of the same is a set of the same of the same is a set of the same is a set of the same of the same is a set of the same of the same is a set of the same is

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1. Isolated getic unit

OMNI PROFILE

Evolution began with the simplest organisms, says Lynn Margulis. Even our bravis had their beginnings in primal sime beginnings in primal sime

BY RICHARD WOLKOMIR

quinting against the California summinia metobologia Lym Matgulis stands arkle deep in see olde muck as the surveys her failorite tetree Lagurd Engurans. It is a piculair retropic the Reservement and bectrain a methors of the Reservement and

In the table move Back Classicy and the Senkarize KM the cuttine played by Paul Nerman descended here from a stemp Macaal minimisant to his boot boot in analy oose and particidically to descend the senkarized here and a garden—are diselen of boots from the writing problem has laid in exploit forhau and part upon taken of pregleter compare and purple backen in protein part of pre-

Lagrant Population recreating to entropy the service of the service of the service and her research above the first method entropy and the service of the method entropy and the service of the service only an beavering and electronic method active approach the service down Themappen, the researchest the service of the service beauty on beacters David Service in the service beauty on beacters David Service to the service active approach sector to the first service beauty on beacters David Service to the service beauty on the beact for the beact her back and and Cools.

In a way she is a wizard. Her theories of evolution imply a certain atchemy. She





symbross-living together to their mutual major gaseous product emitted by all or-

morbibules thin structures also found in work. You agree that owgen has a biologour brain cells. Thus, every our brain cells and call phone as why clonit you braine intel other

Basically she says were made of bac

Bersy Diver a longtime associate agrees

Part of the crecism spends from Margua monoteal evolutionest which is a field that (bactesa) Protocaste (algae sime molds

in a sightly different year she has beby novelist William Golding an acquent-Gasa was Earth nurturing mother of all chysical substance. The hypothesis named which reliect more solar radiation, begin to cal composition of the soil water and at-

contends that bacteria cells evolved into was contribucing family trees for microp-Marguis bolieves for ristance that the says 'But many other lands of organisms

They all said. Get in touch with Lovelock. he agrees with you' I wrote to him and he remarks. Her colleagues adknowledge that cletails he needed on gas production by mshe has a fler for being publiceous. 'She's crobes ' she save addrig Lovelocks a one of the most pulspoken people in biol- marvelous combination of very precise and ooy says John Stolz a biologist who has very imaginative--- a marvelous way to be a Marquia gives a homely exercise that supports the Gain hypothesis. In Minne eight decrees Fahrenheil and thrity percent. here as serventy degroes and nextly peracademic departments in universities would cent humday. Nobody claims the art in the

> past 4 billion years the sun slumnosity has Why? Because the growth of different or Impedances widewity stable Marquin same

> bity by evening a methemolical model called a Dasy World populated solely by this simple sailers when the planet's term The sun heats up howher light classes

At Leauna Figueroa, lavers upon layers of bacteria ingest, respire, and wripple in primorchel sole de vivre 9



celouteted a world with diastes has a stable temperature over a great range of soler larenoscies, whereas a world tacking diastes heres noted up as the sam heats up

So according to the Sale hypothesis like modulates the unstatis composition of our emorphism. On Nais and Verus. "deat works, The art is a chemically table malure compring cherly of carbon classible had much carbon classible values. The ter extin on system and taking allow-the simter extin on system and taking allow-the simworh spaces model.

"It not for life, carbon decide would be a major gas in our planet's atmosphere even now. Maguis says. She eider that i amosptenc coygen were to decrease by more than hall, most animals and plente—the rans among them—would visinit.

After heaving helped Lovelock for ten years with the Gala hypothosis. Margule recently realized that I dovelails with her own avoid sociary heavy

Ultimately there is no between Gass and optibious Cells or organisms wash behaving in ways to optimise their own channes for surveal gave rise to complex regulated optimum, the salar "Armania sur observed with pass-toothanging microbes Maybe here are convenient ways to detribute microbes more everty across the earth.

According to the traditional wave differences of the traditional wave differences and the traditional traditional

Mergule has a different yow. When she sleatches it sine becomes so intense taking about what interests har most that she ends har sectorizes in a Wrisper.

Yes green algae are the anoethers to pirets and base-green evidencial man office photosynthetic backers. But i volentify dieageo end her fung- and asimals allose through algae loong the ability to photospteszen il you zen on nithase kalas, theritis title except the botanoal mpth—common welcom—os suncet them.

Margulas etsesses the significance of opanotacidena as the first large scale photo synthesizers. Powered by unight, hiny unied chlorophyli to combine water and carbon disorde This produced carbohydrates with owner as the tracked

Oxygen causaid, a creas in ovaluton" she contains: As ovanobacteria toment readily hooghout the world chairming aut photosyntuse—toods for others—in a kind of Procenthnan agroutural revolution oxygen so other evels climbed. Then the problems becam

reactive by this genous anyon it kills cells not prepared to handle it. Margula says Some bactors anyoy crawled no the muds, but offers evolved mochanisms for device with crucial."

"Hards where symbols core into play cells within the plays in behaviours, when a small engine metaboline glution but bettraum thecaus the noticityapproximate and an engine metabolic system and the second service in an elight metabolics of bootne metabolic data the cells power councer that read with adjustment enders down cancer and called origins to their down cancer and called cell covers and a nucleus exclude from the bootness.

Marguis goes ong stop further. She be lavos that another kind of bacteria califici sprochetes evolvad riso the haniko parts

Growing up at the edge of Chicago's South Side slums, where schoolgrifs had nazor blades in their garters, may have predisposed Marguls boward the theory er evolution by cooperation ?

that allow sperm and many other nucleoned defisition over The challenge is infinding and denow to support this belief.

In Margulas laboratory, which is literature with hasks of nawly-backing yealew tubbs indjusis of Papulitanian cooling source binning with green stime one of her years and-1-take ladid graduate students slips a slide of live specchebis under amonoscope. One gray held 1000 next beliefer gold sting writtle and back, aakh a living sprochete backerwer depestor?

As they perform this inequale dance the laboratory (is) with the methods of Margalike issearch team—all young and intrins. She now a head through the stark. To now have more any dis dearing to an intertelled dants the method method have a method compared. "Right now the labor, it is ourse heading where calculated by long where to the them."

Marguis responds entrusantically. We have to have a log cleanup? She suggests that outs charactals be stored in an empty cobinet. To you agree? Does that seem formal loward?

She shanges the subject abruptly "This

is very relevant, she says, which is a landite expression of heri. She launchos into a description of a bactroad community growing in the basement. Were going to load at subtle and write growing a diatom met (a fair mat of algas) you wouldn't believe. He besubtle, and their browing auff.

But then baarded blochemid Robert Ober mees to report and Marguke becomes as gain as a hong beinkily expering a chub sho teas wil dart away. She has encouraged her assoches to find in closing has the mass she to find in closing has the she has a protein colled blockin holds. The sub contain a protein colled blockin holds also gainable her bachy.

Date has been purlying sprochele protione exploring their othernit electrical disegue in order to separate them for anelyse. Based on preliminary studies with the test spechetes. Char has produced the full clean bachemical data showing final a prosentious a sprochetes as similar to backlin.

There goodness' Margula says if after two years' work Obar's purfied protein woront the buounake one it would have been a desater

Chitta wali a posteriot Cerl Sagan which Margula Isono in a Baroakana publishe's office and becagit back to the United Dates for their children beams down on this good news from the monocentries is publicate a aming Sagan against a backholog of states with an inscription that reads you while more new common.

Lynn Alexander was born in 1608 one of faur daughters of lewyst and is glamotose housewise. 'Growing up at the odgin of Chcages Bouh Side shutts where schedight had taze blacks in the gamma may have perdaposed Nergula toward the theory of weighten by ecological

But the entrusem to solence bigain with a sushismore genetics outro at the Urwercal solutions and the same of fairban inetially also again har chief ann was to meet managing men. At ago scioen and bigain deerso Dati Bearn

The couple manned shortly after she graduated hom college and hew moved to Madeon. Wescenen, where Sagan had a fallowake at the Yorkes Observatory. Mangenetics, In 1956 she gave birth to Donon the first of there have non-

One day I was pipeting a solution of amorbas, and all of a sudden I was lying on the lab floor with the pipeter dill in my mouth " the says. I knew I must be program!

The Bagans' Norkes days left Margula a lifeting enhances of the therman field or persenary sevence Today NASA funds her essenaris Lindondanding Mars and Venaum compension with Earth Index light on Gata, faster, onthe way life has modeed the terth few wheat the heaton of our planet.

Upon here there working view hard to get NASA to use ns high-tech goer to look at Earth as if it were a new work to be an pioned' says thetay Dyar of Boslon Univer sity Margain also serves on a variety of Upone rower to Once a year, the scum also rises. We offer it a place in the sun with our fourth annual

LAURELS (AND HARDYS)

MNEUGT Owy, time to breache quige 1986 a feedig over, meer altwork, jour of these were all every. Not only doil they likely was the oprical MV Owend gap in amagement and homes that work the oprical MV Owend gap in amagement and homes. It he work relation of the allower of the oprior of the oprior of affancer Not We have them anyway. The year of Oweni, in the own have, was wark in combiners.

The renterkable achievements of the part 12 months manhaced out belief that no price, no mentative awards, is worthy of our wriner's achievement's, so hwang to backing, that is exactly of our wriof our count (and heady) mogarms are getting—no press. Wrig we added considered, incomension our classifiatio with they galaxie

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Inter to places like Sweden, where they would have to undergo like anters of long, formal dimensi and make why acceptance appendixes to people incy will have need appart? Why facilities indown with gold mediate housed bit many needy teeth? The asters local call in many anexests while Frank Kenstguird



BITH AND TAKES The second date was a related to the way on evolvation of motions of dates of the entering of the second second partners, parameters, to more under gas each tits ways to also of any the second second second second second second second second to the second second second second second second second second or the Health Second Seco



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LAURELS (AND HARDYS)

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ARIES AND MARKET the arrays of the transmission of the Persigner and some it the water of the Persigner and some it the water of the Persigner and the persistence of the Persigner and the Persistence of the Persistence between the the second source of the persistence of Persistence of the Persistence of the Persistence of the Persistence of the Persistence of Pe

CAT CALLS Last year the guest for the puri-fact call load continued, with 500 finitity formes sampling nexty token toronotan loading to home to boost in any marketing to the second second second heavy marketing to the second second second reservation and the second second second reservations spend intervention of the second Animatic spend intervention of the second Animatic second second second second vector and second second second second vector and second second second second rest second second second second second in today without so Says the order (2). This is it









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NO FIELD SIX VALCENCE Processingers who logged to use of makes with relater, it assess of the based of the relationship of the table on more than calcionses (happy with thes take one lineature of a spetie of basedsers) to Cable and other underset protein of any it 1920, how ever, the artires added a displation to that the mess pair dism's quark, but aimme oblemade mess pair dism's quark, but aimme oblemade the measure assigning they don't the to encourage hapdrag. It can allow, but non-pairs (allow the to the Philedeethers).



COUPON CLIPPING Is was in the group of 1994 that the government healy alcobial to depose of them – 45 bitm gas-retoring oxygons primal during the Alabol energies of 1994. After 101 doorse costs were their deposition ayars: That what it costs have the experiment in mmy armination globs, with doorse wided and upgate it for experiment in mmy armination globs, with doorse wided and upgate it for experiment in mmy armination globs, with doorse wided and upgate it for experiment in the mmy armination bid of said costs. After experiment in the same wided bid bid with doorse wided are experimented by terms into costs of the trutks, buddozers, and introdem – the experiment of the terms into costs of the

At the conjects were deterring to the structure we tabled down that thus sain. The price the printing lade laten 35 million that because they had been printed effects areas exceedent. Prey were, and fact, worthisson. This because the the mage on the collex of that one into a change machine and what you get a optical to the collex of that one into a change machine and what you get a reason but a collex.

And so the lemons of the coupon world were parked peacefully in Parblo Colonaics Mani of them, anyway A like found there way to Wakitergion, as any new sometheres do They were assore for massers the National Arabive and the Smithernian, where they will hold a place correstivent between the Declations of betweenderes and Nations, Watternatic tares.

LAURELS (AND HARDYS)

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COMPUTER CAPERS Last summer Mosaic Technologies répolue d'is new comparty applice variabilities President Arthur T. Comparty avant pennety over de comparty a unapuelonabilité puis pennety over de comparty. Apsilo Compartes until sammers los de los bylas, also spaak, out el ha se gament Mosaic's new comparter, et armed out, hed over desagned on en Apple machen

In manne olde England hitsy have more respect to the machine, especially those made by Commodern Baumenn Machiner (UK) (181 Last yeard bo gravited be Ruyal Warnet of Agovanitement, From non-on, any other and the second second second response of a second second second second second and the second and second second second second second and second second second second second as of manualised from Harod s.



CHINA'S PSYCHIC SAVANTS

Is an ancient form of energy providing China's children with the miracle of second sight?

BY MARCELLO TRUZZI

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In herd Oten Xaoman waro of her way bree tool hang to and in the rende mouther whige of bartu Courty when herboar and to wratelik ming humined agained formis careford process, the story goes, and had the succeed without two Chemics any hold in wearboard the wave gortstols is Chemic target to good again to investigate the wave gortstols is Chemic to good again the story of the package the bays is package to be the story of the package the bays is package to be one storeby impact hand the successful of the low pertoble impact hand the successful of the low pertoble impact hand the successful of the low

Target to visit indicating to prive the decovery with Targe (term or in the Hyverset of possish) fattors the decovery with Targe (term is one to be a set in the decovery of the term who as sound to as is in thetera. In the paper into bells and is then the willights. The set and the mit or the interface of the term sectors of paper counted the paper into bells and is then the associated with a mit the term of the term term part of the sectors of paper counted the sector the term of the of the targe sectors beyond the small been to all of the Sociated provides in control Cress.

South the topolity science commission and the bureau of euction and culture heat shadol events that and elevendrift hans confirmed the adality is identify works and analymative starts of point will be the anti-theory sciences and analybacked house vasids, and on March 11. WPI then remarked to was published in the Sohran DAY. This topogravity today a sweet—by both houses Chana and my Meri–aw atthe works of the and are antitration and and the solution.

Indexd, over the subsequent lew months as news of Tangs abilities spread throughout the People's Republic more than ten other psychic children were supposedly discovered in Bei-

PAINTING BY KEIKA NAKAJIMA

(in). Affinite, Hubba and other parties of Chruskeeping a soft task Christee executives had by now named advacatively kunchers of the homen body. Honce of histoen dataset has been for more hain read with there ears. They cauld, have been there are also as the homen body amplitude with buildeds. One more year old opt also not diamed the could read messages with bouching the crumpled paper with the and of her opties.

Reports Degen couring in about christen with sowersofteinpathy, clanvaparoc X ray vision and specifications in the signal affect was between the open of ann and Southain. but a low wave a young action or as do as seenty-five, and it was estimated by Fung Has, a tractional Christop Opysoan that there were about 2,000 such gibed christen within the Christop opsilization of I balow.

By carly 1980 These terminable diskins built must filter why the pages of Christis persignout fature screent and the filter persignout fature screent percepted Mixer screent screent an approximation of the Seraiannary function of the Haman body—for particits donnot built in the Haman body—for particits of the Seraian body—for any motion control. The Intercenting were table to the International Christian motion control, the Intercenting were able to the Internation of the Seraian Body Body Christian and Christian and Christian Body Body Christian and Christian and Christian and International Christian and Christian and and International Christian

As publicity mounted, interest apriced beyord, the memory field to Hong Kong, Jucon, and Tawam, And it detrif take storg to the news to peak the retrient of paralisis/hold with throughout the West, Because Weston instauchers are take inclined to respond to such detries with the tool through the electronic field. The supposed phenomenon is captional Association (Section 2017)

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A other line sent energy unit waity 1880, exorted the time of the Marca Maxmal conlements in a story on tectory withorshi and forbariseting. The daying Assive conceded that iss larg as hose activities do not alfed the pholes and generative antivities of the collective the government waits in other words, according to relate Cher worther Marta Ticon the government waits

 A group from the Bisting Teacher Training institute announced that its young charges could cause an operating radio transmitter to desuppear from one room and show up in another ®

admitting that perhaps serve of the phenomena could be "scientifically observed, tiscaid controlled recorded manipulated, or processol. Chrosee scientists would be allowed to prove what was supersition and what was not

Generative gip shraid, an unifiere of Christee peeha bis leep it an oction. Howard-Inst Cherr Brocateg and the Wayne of Beyerg Lenver Heart and Waren Bis, eleven it a speets of oligit notes, the gries placed paper wet Cher ness ownoods, indic ther amyoria, in 208 substrational indication that any more table starting this gries. Interview to solarity test starting that gries the subjects accords test starting that gries. The subjects accords they day not cheat

In another experiment, concluded by Xu, Xerlang and his group of Antis Normal Unversity in boy and a gri said to have DHP reportedly guessed not celly hadden mesages buil also the color of the pamot tasks to write each message. The scienters said the chickins assored convertiged by percent of the sime, but the sciences could not denrify there tension to baid definees.

These experiments and a slow of others.

where considered werdy accessity in Chen. The result in KW will we be beloaded to the result in KW will we be beloaded provide the transmission of the transmission of the constraint of the transmission of the transmission of the transmission of the transmission of the constraint of the transmission of the transmission of the transmission of the transmission of the constraint of the transmission of the transmission the constraint of the transmission of the transmission memory the checken Transmission of the transmission memory that the transmission of the transmission and the transmission of the transmission of the other transmission of the other transmission of the other transmission of the tran

The abust selffer to be on theme in the threads careful shows to control the meeting was the begin involvement of Qam Masses before rearring to Chran in 1655 Care has been the Gedards Phalesson Laboratory Population at Carebon with the U.S. National Geleries Beambin Blowshi Thereis to Care, by 1980 Chran and accessibility aircritication of the address and there on instructional builded was and thread an instructional builded was and show an instructional builded was an instructional builded

Gain, however, had rocerty, become a postecnic backer in herid of BHF Andlo entradied acentate, his suggest made a temendous difference. Every day we have now decoverse. The Idd I is followed. This remedie us of the amophese when Enblands theore of relativity and quantum mechanisms were intraduced only the stage of maders parene.

Involving the name of Einstein was outly approximate for those in Claris Momed Danis influence as the Tabletin and Assarce in backarge the stem born's during World War II. The grant space as wenthe Burned CHF enthusiate in fact. That reported y assured the privet e support of them America Class Zyway and the public approval of the renowind Chartman (4) to Baco.

The repets coming mostly from Detense Department maniations and the yound He Receased, seemed to get more incredible by the day. So easily in 1991. I was threfted to get a call from my finand Stanky Koppnie deem of the graduate school at the Saytwook institute. In Sain Francesco

Kappner best known for his work on talegativ during dearns, is one of the most impletatio—and subpleter—providegerbiogets in the United States. His tops to the Soviet bloc have produced a fount of information on psychic assard there, so it was no wonder that is light of recent reports he was blarmed a more thme.

As it turned out, Krippner has planned his two week tour with the help of an effervescent Chriseli woman named Shujin L. Mar of the Savart Association in Arington Vigms. Mar was firmly converged held D-F was

CHESTBUSTERS.

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SAVE YOUR CITY, WITH YOUR COMMODORE 6

ACTIVISION

loganate Her connectors would enable Kippner's group to meet with China's most committed EHF researchers and their treasused child sevants

Repare tail me trait to had already midwide physical thread Philaret of SH Interrulational physicana J. Takind Bernion and Somethy Zhrivel, Los Angrees popychologist Sogesock and offord Bait to was all in mode of someone Were me an uter releaded trained as is magnam—a professional who knew just have singet of share double to add to simuliate B2P I accepted to a monitorial patients book all Omethy reveals of anal

We left that October annually a Being contwo performs in the trans that much memory was pre-topological difficulty. This apportunes to observe a set of the trans that much out observe and the transmission of the transmission of the given the transmission of the transmission of the transmission of the transmission of the observe the structure something you insight of an the much of the transmission of the transmission of the transmission of the transmission of the observe transmission of the observe of the transmission are in Research to the transmission of the Observe are in Research to the transmission of the Observe of the nucleon of the observe of the transmission of the Observe of the transmission of the Observe of the transmission of the nucleon of the Observe of the transmission of the

If year in the containing room of the Prendship that we had our first sense of meetings with the Christen The meaders to markers, mostly than Boging Medical Collegal, Berry University, and the Christee Academy of Sciences Inst explained here dearrowthe terview FIPF and a (cheet)

According to the researcherin or unprivation every that invariant the obsery part as blood name through the anteness and vorse the performance through which or provide intertion of the performance of the terms of the operations of the performance are not repair and the scientifies provide an encoder and the scientifies and administration researchers the scientifies and administration researchers of charrents. And a breathing somesme calmed charrents. And a breathing somesme calmed them of these characteristics.

As for EHE why, childeen meding meetsages with their amplits are simply tapping a liftin explored tackte arenes. They are gloaring mossages through the skin-which is tacod with channels and energized by the power of or

Told the researchers that as far as I could see, or might not east and gigong might be nothing more than a Chinese version of cotinate aerobios.

But the Charace persited Thospie impairs an opport matcher I was take were equative of estatord nary physical fests, including the debt to senergise unsateled where shack on the tories there with a huge atoms since the opport of the senergise of the senergise of a 330 characegoid of pairs in president opport from three to the years. If particuing the senergise of the senergise of the matched improvement and 32 percent. If characterior the senergise of the s woman even claimed she had inverted a machine that produced the gronegy antically, whe had she said, alreedy used it to ouro har pasents of carbie passive high blood pressure and heart discuse

After there days of such documents we will be a such documents the sublicities of the sub-sectors were initial subcolicities of the sub-sectors were initial subcodies. They initial converse initial subcoce and the subsolution of the subcol subsolution of the subprotest of paper marked with subcoling. These and context in the subcoling were subsolution of the subling of the subsolution of the subtion of the subsolution of t

 Origong masters, I was told, were capable of extraordinary physical feats, including the ability to emerge unscathed when struck on the chest with the blade of a sword ?

the may have been revealing the answers.

When we finally did make rite to the contenonce toom for a lormal demonstration a hardly mattered. The childronivere so Ridg ity and realises. They couldn't help but momoulate the weak of paper any sinked conparet would have been able to use that technicuse to their a peek.

Despite the chance for cheating, shough, the grief dothil acces a single Fit. Finally, Krippine stood a flaw yacks away from them and drew a big red star, pertaps the most previews system on all of China. Then he kolded his paper handled is own, and one and on the answer schilt

Later on I book firm ende "Stan, why old you do that?" I asked. The gris probably saw your red pers. And it would have been ample for them to leace the movement of your boot

"Of course I realized the problems" Krophar said. "But the gris and our hosts second so embanassed. I was just stying to and the relation on a tendinumber

It was on that friendly rate that we left for Xan, the Chinese oby loss known for the We aux lears-cotta army now being uncerthed by archaeologiss. But our distribution was not as grandices. The lifet day here we loand outsideau in the magare three econ apartment of three enders sould up possess EFF. They diamed they could psychicsly bases a match or needle sealed in a small contimer And of course they could must mesalignes on churneled paper through the channels of there dain.

With 155 of is atting in the small hork coontion moher contacts to its with merely using a method that was amazingly muck. Sile instantiation is a set for the state of the state of the children to assist for time. Now any cheating which south here so children got every an services and the instantiation by ourgest get who is one point actually left the nome and look the staget card with here.

Our next target was Shangha: We left on a shuddering turbopiop filled with a convertion of Americas from the Matwest and an oute we prayed for survival. We det of oourse, touch down, only to find that our turable we branch begin.

We had planted a sense of meange with the Nature Journal staff. Shangha Univermly pobleases internated in EMF and feaulty at the Science and Technology Association But when we got to our hotel we learned that the medings had been cancelled

Write we werk in Xian is speen, Ni Guard, Tan vuo chomanni of the Chroso Acadany of bianness and soci-desister of the i state of Maximum, learnism and Phaqetts of Nash Weining, their statebol paragraphic calls to chomanni the statebol paragraphic calls to choman of the statebol paragraphic labels to choman of the statebol paragraphic Nashini Australia and one of Mars smart conality includes the Chrosopain paragraphic Committee calls of D-PF investigation and committee calls of D-PF investigation of the statebol paragraphic committee calls of D-PF investigation of the in cleans of the paragraphic

With the pupper it the Cultural Producer III is compared to the variant in the vectores. Nonetherases some of the most end that such that makes a set water to any other that any other that any other that any other that any other with sear manned 20% Renices part 20% of the same characteristic and that part and any other vectors and mapping of signals. The same characteristic and that part of the same characteristic and the part of signals that any other vectors and mapping of signals. The same characteristic and that part of the same characteristic and the same that the same of a participant memory on the characteristic and the same characteristic and the same the same characteristic and the same that the same same characteristic and the same that the same the same characteristic and the same that the same that the same same characteristic and the same that the same t

These incredible base went on and on, unli I weikared that his Zhus had this ectentric or conceptual separabilitation. That evening, transholess, we all went to the Zhus BHF demonstration. These I brand four young as wants three gris and one boy printly sendo crisitatio. Croce again, there goed westo tread billade messages with their amptits. For the commensure or to



All the psyche is rooted in the biological, the evolutionary, says this investigator of the bravi's hemispheres. Consciousness itself springs from nons of neural bard-wring

INTERVIEW

JERRE I EVY

chets between the two ternspheres until the whole brain is drawn into an intense neural storm in the Fiftes, neuawful grand mai seizures. The procedure was racical surgery to cut the feecback loop of the aberrant activity. Researchers sev-

The recipients of this surgery, the so-called split-brain patients. were to provide Roper Sperry of the Celifornia Instalue of Technology, with a flood of information about the dual nature of human consciousness in 1954, Sperry began a series of now classic psychology upside down. Spany's work demonstrated that the noht hernachete was neither dumb nor lacking in awareness, as

PHOTOGRAPH BY DENNIS MANARCHY

In 1965 into Sperry's remarkable circle came a remarkable woman. At his mastance (wenty-seven-year-old Jens Levy) deuchter of a cidhino-store owner in Democols. Alabama, kened his stall as a coactuate student. Gene Levy is one of the most extraordinary assimilators of information linkve ever met," the Nobel Prize-wrining Sperry once told Omny With her uncarry ability to make previous use of whole bodies of knowledge. I may came to

The epileptics cave Sperry and his group the royal road into the Norverbal abètes paracularly of the right hemephare, quickly became Levy's special sur! She explored and articulated the difstudies on the beam pairs and left terms free as The studies lating. Sections between the perturbatives, including how they percent spatial relations. Using objects the patients could feel with either hand, and photographs of two vertical halves of lages, she found new www.of eaching information in our and a second better and forono it to give up in the form of behavior, its secrets. Lovy demonstated these was a difference between transphere clamarical—thelendincy of a homsphere to assume control over proessing and behavior—and hemepheric capacity the michaliam by which it particires once its in control of processing.

Low probably neived a general nite paratern defining the nature of the office paratern defining the nature of the office hor the suggested the the list hum indunating such increases appears and the suggest and any the substantial of the paratern and the substantial of the substantial paraternation — and substantial holdes: This definition supported the out holdes that and the substantial and the substantial paraternation — and substantial and the substantial and the substantial substantial and the substantial substantial substantial and substantial substantial substantial and substantial s

Levy's assemblic concern from the beginming fairs been for the dynamics of hearing of the fairs of the dynamics of hearing of the fairs of the dynamics of hearing of the dynamics of the dynamics of hearing of the dynamics of the generating of control and the dynamics of the generating of events which of the dynamics of the dynamics of the dynamics of the dynamics and seen the backing of authorities — the event which of the dynamics of the d

Bis differences and differences in headdoes possible of the result. White the entrange particle provides the transmission of entrange particle provides the second possible provides of the values of the particle provides of the value particle particle particle particle particle provides the second possible particle part in the matter particle particle

Today, as professor of biopsychology at the University of Chasigo shu's saking the guastics shu salways asked. Whatis threat sonable to believe in the light of what we new insure? In the company of scientistic shu is a catalyst a builder of biodges between grocences, between sackingslows.

⁵ Science writers Jo Dunien Smith and D⁺ ane deSimpne mell Levy at the Chacago campus. They takked in Green Hall is build ing that had been a dormitory when Levy's to DMM mother had level there as an undergraduate between 1923 and 1927

deministration in the provided and a subcompcipation of the second sec

Levy The brain operates in pacifies whereas current computer operate sensity. We tak while we drive us regulate body temperature while we think. This is a mixed difficulty as in the fact that computer operate object tally while busins within both organi and will adop processes. A majo Take concerns the central permee that is a computer program can accurately reproduce the set of input-

 Pure randomness is pure entropy, and the human brain represents a price of organization in space and time that has the highest negative entropy that we know of in the universe ?

adapt integran actually betweed in ported in they perform encoughtve sain. Here the ported is the rear dynamics are detected to here integrations. Devid the scalar detected is the sain state of the scalar detected in the the state of the between the state of the sain of the bodies that for states which are don't and bodies that for states which are don't and the state of the states of the sain the state of the states of the sain the weat. These may be literally theoremotic of payle adjust willions and it for each of these adjustes willions and is no which of these adjustes of the states of the states of the adjustes of the states of the states of the adjustes of the states of the states of the adjustes of the states of the states of the adjustes of the states of the adjustes of the states of the states

The second maps of source with the computer mode is one batt think is a abouting table. I have if no stricture integrates the paint that notposes sy and gain these and have have askess of puppoint that are thin galable and and concels in adjust that is to prove think and concels in adjust that is these because the integration the company, than interest connector between endow cognition and puppoint process and a bars who expansion procemation is grant who expansion procehas implement occurs of involution that has any tic only what can be called for most world implements a incorporation into the basin operation. Unrearies how this team developeration or unrearies how this team developerance againstee control and how it be periode genetic control and how it be periode and inconsequences in the operance has been obtained by how woll in team reserve backgoal these. This is principle that is implement to any computer periode.

People don't just at here—arrepped of mode works derive horpex volues, feel rings—and apply sets of logical opsisterior opart prevents Save they might have the mimedial agoat of solving the postball in prebented them. But this does not occur in a bented them but this does not occur in a sector them but this does not occur in a bented them but this does not occur in a bented where goes no in long. Biologically to here a where goes no in long biologically bented where in clueb them codes can ever provide any real understanding of how brains doesnic

Dever to brains metal larger purposes no what we do introducing choices that go boyond some immediate issue of larind. You seem to be suppright all headow of choices is belogically beard and goneto ally weld into the seem. Ian to pandowice the we are dootneed to make indexed?

implies that at any given moment, absolutely brains and minds. Totally free of all our extime that has the fechest negative entropy Gran Sail they to inter that say a militat feedom the elvish s almost perfectly free It has a particles reacted avelen-out at coldcal status as it were it has no molice past and any imagined future tree of events tre informational matrix to which human beings have access its behavior is gov

A biologist presents nature's dynamic designs and his inner vision





Fisicinitial by the nch and fluid stratitudure of cells biologist finiticials Largy creates Bloenen. H4 valuations the phenomena and than commissions antials to native the companient density. Firm the tertilization of a sale unchin togg (left) to a creat satisfies of a human war right). Biotem and capital Wilk mylders.







What less before the vewer it the world of a cell Baux, paie shaped intocomes, which assemble proteins, trivel through a orbital masse data by the of isproduced (bager right) chromosomes jurney to the opposite ends of the cell back labove) final the weight has allers Neurons swill from an imaginary planet in Leroy's spectacular universe



Lising vews from a microacope. Licey portray a muscle coll (right) - He colled for gradual changes to the scale in the perforg so that call parts are increasingly magnetic tables and the scale of the forms. Licey called a parts (based) whole the same alone scales and the state of the same tables of the same alone living and inst maker CO





In 1990 the Sacards moved to Berkeley where Carl hald a University of California tell grammer While at Berkeley, Marcuin, and reacenting from the 1880s and the 1920s

Marculan order statement of the surr tanto typery of cell systems written to 1965

But Marcules says she and her assistants

NASA, She and Sagan divorced in 1964. Her chusetts crystallographer Thomas N. Mar guis lasted from Jenuary 1967 unit 1980 Drive in 1967) and Jacobs (born in 1969) at Boston Unvenety raterd her four offi 28 CMM

As lindings from many laborationes stead Thomas and evolutional Stephen Jay Could of Harvard Thomas calls her 1981 book

beinching lowerd acceptance. And in 1983.

Twony that it certs Pollvannaeh " sine says

book entitled The Expanding Microcosm

animal cells but 100 belon becomal cells. Who Marquin recerds as Most is por

Kit off gerrals and plans, and the planet will recover "she says. But full off microbers as the moon DO

A Martin Control and Provide American American And American Ame

PSYCHIC

times blocking our vew of them these fide

We replied that ratel we could replicate

told us that orgoing was now part of their ap-

sand one of their phile EHF children to the

Thus far, that has not happened. According to Paul Dong, author of The Four Major Mysteries of Mariland China, the Commutheir research quality. They wanted no pa pers. no TV shows, and no more fights

Still the rumots penset. Dong's sources say that thousands of payofed children here content sust to read messages with their ampits, now congregate in groups where leaders help them use a to breek boards

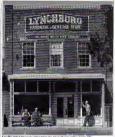
1984. Dr. Lin Hoshand, of Sharohara Instlectedly use or energy to move a ball and make a men whill back and forth

reserve an extraordinary episode in collec-

mgH come from my coleague Ron Wes-Michigan University Wostrum has sperit years sought what he calls hidden eventsmodel not have orginated in space. Today we know that they do it is possible that EHP tals into a smilar category

scentrals currently accept it as valid. One allvely closed system, isolated from the reat sulation tram the West, its arminet intellar scientific leaders like Dan, the EHE photeraction botween China and the West in omoses, more onligit approximal may be going

Most philosophers of science would agree that there is no sharp line receivers acmay be highly improbable, but science can not tell us that it is absolucely impossible. As dosciance is more and better science. Only EHF is valid, after al., the payoff would be iono University observes. 'A whole new the characteristic in the science in



REGULARS at the Lynchburg Hardware Store know why Lem Motlow got it started in 1912.

Mr. Lem (who was Jack Daniel's nephew) opened this store after Prohibition closed the distillery. But his first love was making Tennessee Whiskey like his Uncle Jack had always taught

him. And after Prohibition was repealed, that's exactly what he went back and did Hardware customers were sorry to see Lem leave. But after a sip of his whiskey, you'll be glad he gave up the store.



Tenerrow Merica + 60 Roof + Detried and Detried by Jack Daniel Cathlens Lon Mellow Pres. Reals 1. Larghburg (Pes. 367) Inconses 27357 Placed in the National Register of Historic Places by the United States Generation



They could have been contenders. Talk about Darry and the Junics, talk about the Spannels, the Contours, Sonny Til and the Choks They made it to the big time. records, tours, sock hope al \$500 ungit Taine, attrighting.

Zoot, who was write and had the beginnings of a metische, sook the wellow was consty lazzo trom his mouth. He bit off and cheved up the big C pape 'L mass, if you're sourd, Ray, you can go back home, you know?" Nah't seel Lenzy. 'We need how

for the middle parts ' Lercy was

nonori

In 1965 the Beatles were hot---but the Kool-Tones were tarnd



BY HOWARD WALDROP

twelve years did and about bur feet tail. He was finishing his loath ogar of fini clay. He locked like it arreat Styme Beard from the old Our Garg corriectes.

He still wore the cul-down coat he'd taken with hen when he'd escuped from his feeler home. He was staying with his sater and her beginnend in each of his coat.

her boyfriend. In each of his coat podwta he had a bother one Colve and one bourbon. "We II be all right," said Corre-

the beat grant and the second control of the second second

PAINTING BY JEFF WACK

out the waxt lips and wedging the ogat back who the hole in them. "I mean the kid who found the place didn't say anything about it being somebody's spot, man." "What's that?" adved Bay

They koked up A small spot of light moved slowly across the sky it was barely verble along with a few stars, in the lights from the ony 'Maybe in's one of them UFOs

you're always taking about, Leroy' said Zoot.

"Flying saucer, my leftball," said Connelius. "That's Tetetar. You ought to read the papers."

"Like your mante makes you?" advad Sam "Wew , "said Contellus

They waiked on through the alleys and the dark structs. They all waiked like a man.

"This place is Oz," sed Loroy "Heyf" yelied Rey, and his voice field the area, school back and forth in the darkness, rose in valume, ded away.

Al-w-

Topy were created bad seen the badrig dock of an idd height and for age corrigory. It must have been closed accenter during the formagination could be to work who have the second back and have the second back and bade, but the backing sease or the bade was selected and barrowed by the store well hey had chrisbed by an second with hey had chrisbed the sease and barrowed templotted bade was selected and barrowed bade was selected and barrowed bade. They all back and my could accerd backet on the balk network bade. They all back and my could be accerd back of my back and my back and accerd back of my back and accerd accerd a Comelus, whose mother was a Fourtiquare Bapter and could small liquor on his breath three blocks away

Correlus drank only when he was away from homo two or three days

"Okay, Kool-Tones," said Leroy: "Late hit some notes."

They stood in front of the door, Leroy to the lare, the others behind him in a semicirde Comelius. Rev. Sim. and Zoot

"One, two three," said Leroy quiefy his face loward the bright city beyond the surrounders buildings.

He had seen all the movies with Frankie Lymon and the Teenagers in them and knew the movies backwards. He jumpad in the air and came down, and Comelius hit it. 'Bahdoo, bah-doo, bah-doo—with.'

They a bias from the bottom of the occase from the Management Brench, a veco from Death Valley on a wet regist to the below the line mod. And then 25et and Ray came in "Othage road from the line shares of the first in your mod. And then 25et and Ray came in "Othtacia rank then Birn sharped out and bagan bein lead since part of "Smores" holy the Crows, And they went through that one particity features the data in the doals wells throwing their vector out to the whele breathing day.

"Wee" said Ray, when they finished but Leroyheid up his hand, and Zoot leaned forward and took a deep breath and sang. "Dae-dee-wood deb dee wood oo, detuhmo doo wey."

And Rey and Sim chanled "A-weekth

And then Letery who had a falsesto that could take has off an opoissum. Nit the high notes from The Lon Discepti Songhr, and not even be lotter than the first song, and not even the lotters on this number-less hit had now sounded greater.

These they alterind clappang their hands, and at every class the city issued to jump well expectation, primig in their dance and they went through a strateginged Baylenen-syste nuture and this "Hey and softwide to codess" (Sey " and whey and softwide to codess" (Sey " and whey Langs issued his "Hen-earth-yuth") over 20sts strating.

And whole passe. Ray and Stm started "Shoube doop, shouldop-do-be-doop shouldopbe-do-be-doop." and Comeaus was going "Ahiero-art. ahieroerrin bah."

And they went through the Five Satins "() Remember) in the Still of the Night."

Hoy wait," said Ray as Sim "woo-uhwood uh-woo-ab-woo-ab"-ed to a finab "I thought I saw a guy out there "

"Youre magining things," said Zoot. But they all stared out into the dark anyway

"Hey look" said Cornelius "Why don't we try putting the basis part of Shorry Weather" with the high part of "Crying in the Chape?" I need it the other right, but I can't—"

"Brit, many" said Sam. "That an't he way it is on the records. You gotta do it like on the records."

32 OMM

Records are going tohell, aryway Imean, you got Notown and some of that, but the rest of its like the Beatine and Animals and Roling Stores and Wayne shifty Fortana and the Windpenders and "

Leoytock the ogain from his mouth "Fuck the Beaties," he said He put the ogain back in his mouth

'Nen', yours right, I agree But oven the other music's not the---

Aren't you kids up past your bedtime? asked a koud voice from the darkness

They gried crect For a minute, they

Matches fand in the darkness, held up close to faces. The faces all held their explodoced so they wouldn't be blincied and unable to see in case the Kool-Tones made a break for *A*. Blobs of face and light foeled in the right fixs, the fifteen more

Part of a jacket was illuminated. It was the color reserved for the kings of Tyre

"On, shif" and Sim. "Itouble Looks like the Purple Monsters."

 It was a bass from the bottom of the ocean, a voice from Death Valley on a wet right, so far below sea level you could feel the absence of light in your mind ?

The Kool Ranes drew into a knot

The matches worl out and they were in a breathing darkness

"You guys know the turf is reserved for friends of the local protective, athletic, and social club viz. us?" acked the same voice Chains clanked in the block right

"We were suit leaving," said Cornelus

The next chains rating closer

You could hear knuckles being slapped into faits out there

Sim hoped someone would humy up and hit him so he could scream

Who are you guys with? asked the voice, and a fashlight shore in their eyes, blinding them.

"Aww, they're just little kids," said another voice

"Who you callin' little, turd?" aekod Larby shouldening his way between Zost and Conrelius's less

A vescessoof want up from the dark, and the chains ratified again

Tor God's teke, thut up. Leroy⁴ seal Ray Who you people thirk you are anywoy⁷ asked another meaner word out hom

We're the Kool-Tones ' said Leroy 'We can and it size and we can sing it low and we can sing it loud, and we can make if go!" "I hope you like that coper, kd " said the

maan vake, "because after we pess on it, you're going to have to ext it "

"Okay okay bok," sad Correlius "We didn't know it was your tur! We come from over in the projects and

"Hey man, Hellbanders, Hellbanders?" The chains sounded like tambourines now

"New new We and Helibenders We and robody but the Kool-Tones We just heard about this place. We definit know it was yours," said Complus.

"We only let Booky and the Bombers sing here," said a voice

"Bobby and the Bombers carl Ling Iher way cut of the man's room," said Loroy Sim damped Leroy's mouth, burning his hend on the cape

"focile gonna regist that," said the mean voice, which stepped into the faikhight beam "because i'm Bobby, and lour more of babe ouse set here are the Bombors."

"We didn't know you guys were part of the Purple Monstern/" said Zoot

"Thand's lots of stull you don't know," taid Bobby "And when were through, there's not much you're ganne remember."

*Lony know the Del Wengs are breeking up, said Zoot He didn't know why he said if Anything was buffer their wahing for the imache sandwiches

Bobby s face changed "No shif?" Then his face set in hard lines again "Where'd a puris like you hear someting like hal?"

My opusin," and Zool. "He was in the Air Force with two of them He wittes to fem They to tight One of them and the act was breeking up because noticity was killaring to their auf anymore."

"Well there rough" eard Bobby "It's lough out there on the road

"Yeah " said Zool "It neely is "

Some of the tension was gone, but certain delicate ethical questions remained to be setted

The luceus at sed a voice "Wards of the huges Monetes The Santalys carre on tim He was huge. He was like Correlise only he was light the way to the gocurd He listed tasked like burnt I beams shoring and of the botten of the genes. He pages and solve was a longht fluoreauer libit on longht. That to be how on the function of the botten of the genes. In the page and solve was a longht fluoreauer libit on was an one of hereine without which pages are on Parels Monetaer Wattery, and are table model to be executed .

Ray was digging in his pockets for nickals and dimes.

"Not money Something that will remind you not to do this agen."

"Tell you what," said Laroy. He had worked himself away from Sim. "You think Bobby and the Bombers can sing?"

"Easy" said Lucius to Bobby, who had started toward with the Bornbers. "Weh kid "Device the bast clarm on the Oh."

"Well / think we can outsing 'em,' said

"On yeaz" ased Zoot. "They got a record, and they've---'

"I stid, we can outsing Bobby and the contrelate being to be How does an antique dealer wind up writing a newsletter about crashed saucets and other crackpotterv?*

AUTIMATTER

Merg publication may expected that are store purraited and uppercleaf UP decartes Physic Actass in ordering block and are in ordering block and actass of the store of the store of the store and the store of the stor

What else but Sau or Smoar? Break the red Seventies, this



UFO UPDATE

softens has been depriving revising goodp and screen received turns. The ddd work of unliggy the pergenerated and the unsequences while accounter or solvenial hungers is one of the few pro-assurance publications that even hardaned elegates small a regy.

You Gim all what know of speeding you is find a the an water without booking blacks that will be the booking of the site that will during the stress the them a matching suid during blacks. Stress the most them a matching suid during blacks of the stress them a matching suid during blacks of the stress them a matching suite during blacks of the stress them a matching suite during blacks of the stress them as the stress of the during blacks of the stress them as the stress of the stress the sum of the stress of the stress the stress of the during blacks are not been as the stress of the stress of the during blacks of the stress of the stress of the stress of the during blacks are not been as the stress of the stress of the during blacks are not been as the stress of the during blacks.

The making address used to be another to-off, it was a past office box in: Fart Lee, NJ, Recently, It has changed to Key West, Perida, where "Lattor and Still Supreme Com." something else to de Saucer Seleve

Unlike other magazines of the unseptianed Sacor Senser is relatively has of URD sightings and other batting incidents. Two always intersaled more in people and gospip and the Samp' things that happen than in second temelike, "Woodle's save

There are a lot of fouds among LPD researchers, and there are some people in the held who have done things that are not cuto right. Sauder Smear is usually the paper that title about it het.

don't see myself as a Jack Anderson "he adds. "Every field needs someone to he d them to some standards of conduct 11m to do that But, don't have any great measure

The not easy to summarize in newsjetter as wide ranging and iddosynotric as this circle but only needed making is start when he called Soucer Smut, truly the only zine that comtines the right amount of samily, meanity, and porn-all in cent — OWN DWARS.

Mosalay has establisited what he deactives as a grout shi pre-Columbian an higae gallery

This does at all book device and up writing a result cert book device and the device transfer device period of the cert statistic of the at statistic of the statistic of the period to the statistic of the statistic of the statistic of the period to the statistic of statistic



ADDININ'A COMPANY

Side Angeles enter Hell Holler has devised the most program since Frankin D. Roossvellis final administ vation. Wacks you believe About A Oneas?

So ten reservit 300 poocen have beauwerd 1 and sent Hafter the \$10 adaption lee For itree movement provides motioned by the provides movement and the sent an experiment whether the lakes to steep lee or engags wanter—that aport of things. Haller comments they also get a whethe candida Left the candida to cher the survauratings of any move allers antergriss. India your repair wanter and a works.

A suppressing insurface of chicken are subly insureabled in howing a ghost in the house. Hater reports Often t is the mathematication and a ghost inter house. They facilithat chicken may be lease afreed of the dark or of being above. If here house their evaluate face which in these. How does Halter Trid. ghiddening placement? We is child in church the could always late a Katian cura footing around people, he says and searng ghosts is much the same thing. The placet west away as he great

Inspect have yeers working with a partner on a sortpil about resonanable. The evclaims. After a while ghosts tagains to occrea abound they watched over our should they watched over our should they watched over our should used to having them about brendthease. Halfer adds.

don't go to the ghosts They come to me tooking to adoption. They rejust as tonaly wandering around without anyone who knows their name or anything also about them.

In this a little creatly being loss core party by spirits from beyond the grave? "Aleght Hafae concludes they re clead paceter But the clear's reperence is unly an seconds out of a Videme They ne everyday poccie with an encorrows alone of orphthetics and personality and these and but to have around. They see things we don't all they have a different view of things. They have a roally gooly sonse of homor Adopt A-Ghost can be reached at 1765 North High

and Avenue Namber 709 os Argeles CA 90128 Oven Dave

High reinel with numination with lense, he understood het he also was en vlueion hat acrosome also was fraamsto hen "

--- Jorge Lavs Dorges



Animals inclusion proposed to amply table have, demontated an inners solity to find than reach table and catter to here of lost dogs and catter to here of lost dogs and catter to here the table and perious makes to here the a deelers. But no one has ever reported a herearch call. but has the deelers

Usiniana a 700-pound registered Brahman hadar was in the habit of roaming from har Osneau. Flanda home and exploring the opurity de by nervell. Tread of the cover swandbang ways her owner eventually wald her to Read Hayes of Floodas Counge County.

Area arriving as being with placed and the June and the second se

What makes the envirals tink so upusual is that cover. aren tisupposed to have a homing mitrob

Intro Crowds Davis of the Intro Crowds Davis of the University of Georgans School of Wremany Science That the cow was able 1 peck up acenth in their awai whom it was charaported to its new home in a van and 1 returned to its first home op (Solwing Thome structure)

Names were observed that the explanation "Although their built and a solution possible construction to head of a construction way how to dogs and calls. To solve the additional according to end calls and calls and calls to the relative the addition of the relative the addition of the relative the according to constructions and a construction of the additional according to other hand is may sample to a very sample to built as were sample to the asset of the constructions.

Exceptional or not Julicern was affipped back to her rise central whice promptly secured the animal behind a higher fence. The cole is now program t and Road Hayes higher fence wanderlust help guilts her wanderlust





ANTIMATTER

Did an Air Force maake aunohed September 15 1964 have a close encounter with a UEO?

Yes, claim two famile AP Force officers who were septoned al Vanderberg an base in California where the bioact/lock place. The modert wate captinet on fain, say the two mon, but the yours ordered to hand the footage own to a plan of GM agents and to lead guet about the emiles multier

Nave Propert Jacobra (Inlow), a conserve first lexionanti who a legerdly used a lette secon to life has moskis. Right says he can thede to find any longer. And Jacobio commanding officer of Vandenberg s photographic of Vandenberg s photographic unit webeit.

The UFO excentration of ounsed 60 miles above the Protecle eccentring to Jacobia and Mansmann, Atter the missile 5 mail boother streps had drapping off. A small spherocal UFO detried the movements come or distring.



varhead emitting flashes, it brittant isocoolike kont han it liew off and seconds ator the warhead fell to parts meaning its target by landteds of miles

E was size a warring norm someons with visibly superior technological tails, muses access to toky a witwal ents picelessor at the Linversty of Waconse And Marie mann who spuded tha Tim with Jacobs before it was confligoated insteal. I have never ever see som anything lein may before or smoo

But an Air Force spokeman assants. We have no accumentation of a UFO no dependent of a UFO no dependent of the barget. Own has asked to see the film in question and awate a resported from the Air Force — Ere Memory.

On 20 July, 1976 a small inpediate space-cow Founder down gently an the surface of the placet Mars. Indirectly: Ner Pursian mind Mail for the Inst. String Jumoyo form & railive planet to Julie op.bong exert mediations in subsequences of downlose

Remard I palate.

MOJAIVE BUGS

Lare tes yest a Magnet. Anorthe sheriff lound a transmitter in his phone and ordered on infectional barries of the operity lines. The tesus? According to electransis recording to electransis incording to electransis incording to electransis incording that promote was tapping has the government acoptions.

The sheriff's deciartment



energie de locare recorder la fait energie participation de la fait energie participation entre la contra recepto participation entre la contra recel energie de la fait de la contra recel energie de la fait de la contra contras entre la contrate de la contras entre la contrate de la contrate dela contrate de la contrate de la contrate del la contrate de la contrate del la contrate de la contra

But why would anyone go to so much touble to bug the offices of this spatiality populated also along the Colorado River?

The FBI In Processis launched an Investigation to find out. We learned that the whole thing was a share an FBI apport exists. Three were no indice remospheres and no federal laws that been broken so with the local option."

solved when police toutenan

Clatence Boherty was put on the case. It started territer waving wheteases. "Defaitly makes and Hound some people who were willing to take I tearned that the phones ware alleged to give the assessment of assessment.

The metawith A number of drug meetagehore in the where it offset hald laked borrant says, and it is possible that the person in charge of tricke invastigation in charge ta water of the space-cer ta at the occid metal ta ennes of peopy lass. I dealers were hepping thm shall be forgover for lakes to metal table table the basis that the forgover for lakes to metal.

The antonny general s office in Phoenix has taken over the case and is now preparing charges against Jerry Millor a former Moyev deputy and electronics event Berlands

It is a big obe now. Doherty same People come to Halloween parties directed as bugs. County secretarios give ruisber interdal to her phones. But for a while was overwhetming.

Engline Baker

There is insingle hope but not for us

-Joang Kalka

ANTI MATTER



SCARLE FLETTER REVISITED

Notificate Traditional Incidence Traditional Librarium Incidence in 1860, and Incidence in 1860, an

In Haw Sornae Dook Dormedolae and a woman named Neelar Pryme (portrayed above by Jairs Hamson and Lillan Geb in the 1980 hing house an atter doing he prolonged assence of Pryme's histand, Roger Chilingworth A chat is conceved and Phyme is forced to wear e red A standing bit estiltwas, on her chas Chilingworth So row

but Whan instats Change worth who was Oliminesdale's personal physician actually killed his charge with the nerve posison attooms

Chiling and the New accus many of the plants used by the Indians, including which accounts of control Neure expanse. And when Chiling worth the India 4 obtai-Dommodale The India 4 obtai-Dommodale The India 4 obtaitings Morphane Khan accus Chiling worth Mangalow. Neuro accus and accus accus and matching Mangalow. Neuro accus and the Indiana one, sho matching has been the Indiana rest accus and Mangalow.

But not everyone egrees Mecent Ball, a professor at the University of Boston and author of Hewthome's Wow of the Artist says "the whole thing is prepadarous.

stind in the montal tort in cl

The work to be points out "The even observas theil a secret conceled by a pertor has out-work of physical effects." The modern wave leg that of cogetoscharts metacone. We also income that beam to the work and a base beam of the out and the secret of eccury min terminit, are a monit of the Moder leget and the physical determinition. Which a solving determinition without a solving determinition without a solving determinition without a solving determinition without a solving the physical terminition of the leget determinition without a solving determinition of the solven determinition of the solven terminition of terminition of the solven terminition of terminition termi

also provide a chronologi by such online am. "Boholars who make a living out of nehadiving Hawholome are understandoby desinted by my theory." he says "III there was a peaceting it understands a contary of liter any onedal thought.

-Sherry Basar

"Mork as if everything depends on work. Pray as if everything depends on criticit."

-oeage outpa

SOVIETMUMMES

Soviel speectogets explaning caves in contral USSR recently discovered obsers of ancient, mamminal devers of ancient, mamming men horses and wild animote those and wild animote those development from dubbed the find a "only of the develop".

But how did the mummes get into the cave? Who were these mummes when they want alwa? And why were they in the cave to there with?

Historian Thomas Burns of Emory University, supports Soviet speculation that the man could have been nomads Searco the stivasco of Alexander the Great in the fourth oarthcay is or Alexander reached what is now Alghanteached what is now Alghan anny acute layers inying to assage the conjuering anny acute has mumiteed were build. Build have gather us to where the mumiteed were build. Build these people could have been foring up in a cano bacquise of a formly found.

Entroly entitlepologial Brad Shore explains that the romade may have been mutrimited by a freek act of nature "its unusue but contently not universitied by find people preserved like this after being happed by a mutation or a landbela.

The Plussan explorer, bound more than mummes in the cave. They also found infeatacros of infes that left tern with perfur body areas wal reports that the mountain pocifie in the area wree long believed that the black progue originally came into infersion the power little





CONTRACT/ROM PUSE 45

Not a sound, Just watching me and halang

Where'd you come from? Not out there in the loalende. Nothing can live out there. It's minus thirty Calsus, Out there " Blance, dust also ers. Out there "

Sence (feit that uncontrollable anger reing in me

Table, arress, if monitowing the Londerstand mail impains the two pay of it is to be got to got i don't give a doministry of those count of Monte Creepo or the loss Bourtom of Three. You're gathing the heli dout of here as soon as you can ordw? He wand up ail me and I wereted to hit the beatand as hard as I could I hand to control impain? The was the kind of thing that hard drean me to Modnation taken.

Instead, Lacuated there watching turn for a long time. He never binked Just watched me. Finally, Laked very softly. What id you say to the fux?

A double shadow let through the door and lookad up it was Arnos the Wase Hard peeted back the antistroo flap with his fail because the hands were full impeled on the this a big, sintwir legen of each hard were as itself y assignt damtah. He stood there in the doorway blooding if thron the sky form, rig a coothis that if this bloc. Sary shape and the extended the sizewered tash.

Its been six membris on Mediatabon blands been glay of the time for takes to appear a dartiteir. Feedbecce and poend these motions boo-what, they are paid on year parts take to work to pag at the spit of sixe weap for boo works they appeared to sixe weap for boo works they appeared to sixe works the clines to calch scenarios to the membris of the to calch scenarios to the time weap for him the same moved to stow res how they don't had even moved to stow res how they don't had to be in the same for several works and had been to be set of the same how they don't had to be in the same for the same how the same take the same how what the say had seat so here

Write the heal are you? I was also as a skewed as I card ba, I washed to pound har, out a life obset from tabihi look on his table put him is a way so I would' there to care for him. He didn't say a word, part kept look, ing strees but the functions are didn't wellyup—herit ime had war done that claims his starty syste—and her moved around bewern us the cartrible econded.

This guy had some kind of *hold* over the aborgine. He didn't say a thing, but the turknew enough to get between us and insist I take the fish. Bo'l did it, outsing both of their under my breach.

And also gaved of the six durition list three dot have pair enrich a flow which incrit and storage from is flower been able to do taken which can advantage. Alross the Weak list me know that this was a very holy creature three which the this was a very holy creature the list been three the three protty have or allow and its been three the morethy have or was or when right bet, but it was a storag flow a storage list. So I look the hot and put them in the lander and 1 lot he tax knowhow grateful. If was, and he dot heven pay me ancign attantem tometimesce a grat and the flow was gone and he was dong elotate with my guest lying out as most and comy as you please, and then he turned and told out of the wolyou and was gone

I sat there through most of the right working him One moment he was standing it me, the read he was advanced and it work on through that tet right just along there looking at this generation like that where I would have been sleeping if he haddin strong but the standing of he hadding and here is been sleeping if he hadding and the was to avail to all wave and ensure it

So liceled at him wondering who the hell he was most of that right. Until I couldn't take it any more and near to morning I just beat the crop out of him.

They kept bringing food. Not just fish, but plants ifd rever seen before things that grow out in the Hotencis east of us, out there where

 I walked to the edge of Westspill Lookd see faint trails made by his skids, buil I wasn't inclined to go after him. If he wanted to kill himself, that was his busines 9

It always starts like rotang garbage. Some of the plants needed to be cocked, and some of them were delicous just eaten raw. But it knew they'd never have showed me any of first it it bach been for hm.

He never spale to me and he never top to kneet shift to beaten him the fort notihe was in careparation to the marrier energy changed Chi. Invert the card table all notibecause where he single has lossed and housing and the closed they an in a share 1 never understood any of is some offworth leagrage. But yetterever it was in most here was addressed in the methanism. In more him lead soft or anneyter it Even skielep hereis in formert

He was determined to stay. I know that from the second day I caught him pillering stores

No, their not accurate the ways plong to opphy 1 dath catho has the way poing though the dath in the transport shells interve whose functions to longer related to mostly possible leadershell accurated access of those starts when it accounted an inways grough the scale sheap leadershell accurations atoms when it accounted him tourneary global the scales the needskin terr. The used before backdage the webskip form the used before backdage the webskip are more some-them tittler takes the same time to accurate the some-time time takes the same time to accurate the some time time takes the same time to accurate the some time time to be the source time to be accurate the same time time time to be the source time to be accurate to the same time time time to be accurate to the same time time. First, a hologram propertier I'd uside during the first month to keep the entertained with a solidiction of to keep the entertained with a downsore were guickly. They durint seem to be a part of my life of paneness: His had commanded the projection, but not the beaks Everything hild been pulled out and satisfied.

"What do you think you re doing?" I stood behind him, has knotled, waiting for him to say something snappy

Hestive grinenced with recrea difficulty, holds on the non-water of la kicked term is might before he turned and booked at me every twee suppressed the dist is even the day before as much as here last or show the day before hereases at allow the me cough twee imported books here if i water do books here in the books here if i watered to books here as here here pusit streng, weining for me to get the meslage.

The message was that he was here for a while Like it or not

To see the point of may way, it sout, it don't here you, and here here groups of otherge it made a mathée pailing plat performant, and mathée and the pailing plat performant and mathée pailing and an annual the second and get a plat back way in and what here it is way by a down took you in and what here all here plat this dom't show of it is going to wait up at before. You of here?

The level is the processing of the method when the distribution of the same web avoid that methy includence in the latence methods and all between the same that all between the same t

By that right he'd already set up his own residence.

And the next day Areas delivered two temetes to ran who unimaged teamseters on them sagit lags to they were indiced anting. And the old meater time know threas two the used ine classities may compare the option them calculate the indiced anting calculation of the same team of the option them calculater and advanced and the option them the hold chall and an second and the table of the same render.

Later thet day I found the shorey bench of an emersionary bank wedged into one of the extension struts if d used in building the wedkyup. If weal sitebored with fluit. Where the aborginish latd build i out these in fast sheltered forms. I don't how The berns were going bail, build pulsed the digresoly, including my hands on the thoms, sourceurg the sea green juice into my mouth.

So I knew my unwelcome guest was paying for his sparse accorrimodations

And we want on that way with him larking about and sitting tailing to Amos and his tribe for hours on end and me stumping about thirds to play Land of the Mangr and galling simpli nowhere trying to impart phiscophical concepts to a nace of cleatures that latened stitestrively and then gave me the datinct impleased that have relaxed because 1 dich's understand. Maternal Grandbither's hungers.

Then one day he was gone it was asymte observer teason and the hald winds was imargitate diffici historical care but of the weak year borber is as a starter. But anyon, as it depended it to be On a meranger, as it depended it to be On a merweer bury pathing the ground and is started to hem and saids where the other merwer bury pathing the ground in active to hem and saids where the other teams the hannes refused to any starter burble is and but me the hoy cessular bad bare of the the located. Again

I weiked to the edge of Wetspri and stared of toward the glacus wastered it was warmer now, but has wastered it was outprinted and to an another the start but I want in othered to go after him. If he wanted to lid himself, that was he scartes life an inviting same of loss

It lasted about thirty seconds then I smiled, and wert back to the old fux and tried to start up a conversation

Eight days later the man was back. Now he was starting to scare me

Hitip patients of the haat energies, it was an encounted of contendent of the content o

He soughed in through the mud and the walked straight pair means and the walked straight pair means to he stert and were inside and iddent ose hen for here to the day But that right as to darke the week of the day But that right as to darke the week of the holands close to Argo at the top of the work, law Area the Wee and too there ad domine come ow the rise and go count bits from the care to the size down of the min a cost in the start. Size of the rise and go count on the size, and i lawed at them unit the henoc advertarie care to all and sized with them in a cost

They didn't move, they didn't gestioulate, they didn't do a goddammed thing, they us joined flow and passed around the impressions like a vonge-colore passing its deamploe

And the next morning I was wakened by the sound of clattering, three on my envelope and came out to see him snapping together the segments of a jeny-regard storage or one. of some kind. Held cannotatived boot sede and tray shelves from the transport sheets and rever lead one of the last up spelane the lacking crews use to lighten down cargo. It was an ugly includy thing, but it looked as if it would seles croce he was out of her much

Than it downod on me he was planning to take all that out there into the lociands. "Hold is motion: I said, the cloth stop working. I strode over and gave him a kick in the hip fract. Hold if?"

With his right hand he reached out, grabbed my leit arrise and ided II halftarred loand meet of the ground and whan loaded up teat two means away the beath pulledourd me on my took Hewas dill working, the back to me

I got up and ran at him I clarit recall seeing him look up, but he must have, otherwise how could he have gauged my trajectory?

When I stopped gasping and spitting but dirt. I fried to turn over and sit up, but there was a lool in my back. I flought it was him, but when the pressure eased and I could

 I had a dream of times past as I stared at one pool of changing colors that
bubbled and sang My heart was filled with feelings (had not known since citikahood ?

Jost over my shoutder I saw the bun-taned shape of a hunter fue standing thete is spear in his singwy left hend II wen't arred at me but it was held away in a direct line that lad back to aming at me. Don't mess with the holy men, this was the message.

An hour later he pulsed this skidge with the explore wapped about his oblet and dispage in off seried han, down the lated bidge and out on the much He was lossing towers drawing to leage the taxing low entry in the pendage the custod in times one. He was one of those old hotograme you by shape statched to a watter band and by bead

He went eway end I waen't stupid enough to think he was going for good and for all That was an excel vieldoe

What would be on it when he pame back?

If was a thick, segmented tube a motor and a half long. Halfs chapped away most of the los in which it had law for twenty years, and I knew what it was, and where it had come from which was more than i could say about hm.

It was a core leser off the downed Dae-

data gover installer whose critit had daceyer inspirately two years atter the Northcape Power Saturat had tosed the units begin the globaler had goten to auto begin the globaler had goten to data in the saturation of the saturation of Physics, comverters between the Bat Polya clobaler where between the Bat Polytic location where between the Bat Polytic location where between the Bat Polytic location where the bath add decaded is on the week-bage, now-poly of a combines on the week-bage, now-poly of a combines on the week-bage.

And this nameless single who'd invaded my privacy had gone out there isomehow donrived lose the bearser—and its power collector if I was right about the fall package at the and of the tube—and charged it back who show how how how twenties. Joseful?

Two hours later I found him down one of the access hatches that led to the base cample power station a fusion pain, deuterium source, a tank that had to be repletished every awkern months I didn't take a refinary.

He was examining the power beams that supprised head and electricity to the campa I couldn't figure out wind he was trying to do. built got alwared over it and yells of them to get his cercais out of them before we both from to deal to because of he supplity. At the a while he came up, essent the bath, and want of to their with he park laser.

Intel to sky away from timin into weeks that lobyed the worked over the law, staving bits and paces of anything nonsharing bits and paces of anything nontrained the second time average to observe obvious that through the lay taclators and an energy to brough the basbits as a second to be average the basdarings intel no observe to workering of the method and and the baser of the basther the second could also the composite bask.

And that would leave me right where 1d dented where with creatures who that not paint pour too sing songs or devise dances or make iddls to whom the oproact of art was writnewn, who responded to my atmetrids to communicate on an aeathetic lived with the solid indifference of grandificiality focable to theme a bath old and.

it was pentence indeed.

There even day here were freehed. It is loaded to a the days — In basis some wind of makes to be available of the some wind of makes to be available to be my loaded and a single harps— wind her days and days in the Arous who had annot be days of here to Arous who had annot be in the some days of the some best of the available of the some best of the available of Arous who had annot be the some days of the some best of the some best out the sole and the best of the sole alistates with me and I use ablest of the alistates with me and I use ablest of the alistates with me and I use ablest of the sole of the sole of the sole of the sole of the alistates with me and I use ablest of the alistates with me and I use ablest of the alistates are the sole of the s

Take your family beyond Computers.

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CATTER COWER SOLACE

Note of this was said, of course It was vegaritelings, monthed mugalit hunched impressions. This suggestions instance unings Buill got the message I was of alone on Medinitian them this to sufficient alone on Medinitian taking the said listed alone on Medinitian along as isolated at the same the drawness as any as a listed in interfere with the hold subventor who have core out of nowness to fit me with the sage Ici field across the stars to except

So I tamed away from the locales good indianosi and the to make some sense out of the unacleanose of my life. Whoever he had been I knew he wen't coming back and I have him for making ma understand what a waste of time I was

Thet right I had a frustrating conversion with a turquose fux in its female mode. The rest day I sheved off my beard and thought about pomp back.

Is came and were leverentimes in the most were were there and have to level automatic never lever. And additional the came back is clocked thread were in the never the the clocked thread the case there back the clocked thread the second second them back the clocked thread the second second them back the clocked thread the second second the the clocked them the second the second second second the thread the second second the thread the second the second second the thread the second the second second thread the thread the second second the thread the second second the thread the second second second the second second second second second second second thread the second second second thread the second second second thread the second

He seturned once to obtain a new heatenvelopes to had supplies disciplated in and they disent mis a latest model so tilden to act when the facts my old suit.

He returned time for the death contentiony of Armas the Wale and secret to be lead ing the service i stood there in the circle and and nothing theoleuse no one asked the to controlute

He returned price to check the fution plant connections

Buc attest was years to ochri maxim agam, Alamman Harris and Alamman and Alamman and Alamman Alamman Harris and Alamman and Alamman across Medicistoris Haind of the land bridge across Medicistoris Haind of the land bridge and end on the landers by the harris which all insight processing and the land bridge and end on the landers by the harris of the data set of the landers of the land harris and all status and the land harris and all the data set of the landers and all the landers the landers and the land harris and harris and the landers and the lander whith the lander of the landers all there have man. They claiwage stopped minime when there is an all there.

"Why? Why do you wint me to go now? Nou never worked me out have botto?" I to unever worked me out have botto?" I ould left the aod boiling up in my anger the hightening of my faits. They could be in Argo before Td way that lia av a weard.

Then the det has not served ing that addotsetting a second rule in the years they had addotsetting associating acceptoring method at he main sequest. But now the addongmeets and data they have a sequence to be right and cree of the makes, a tag huntar with longif. Sub Ling passed him his spear. Bon of the QET times power of all the guirant and, with the first passed him his spear. Bon of the QET times power of all the guirant and, with a very lew sinckes, drew two hyperes in the called must at my held

It was a drawing of two humans standing side-by side their hands inlast. One of them had time radiating out from his haad and above the figures the dromet draw a circle with corresponding lines redail no ostwerd.

I wave the test pace of intentional art 1 had serve soon consolid by a Meckani ke form. The test as tar as it know that had wave basin created by a native. And a had happened or watched by heart beet toors i had form of these becupilities concept of art to at least one of these concept of art to at least

Til come with you to see him " I said

Perhaps my time in puspilory was coming to an end. It was possible I dibought some measure of recemption

I checked the truster plant that beamed entry to my hear envelope to know the feature freezing and 1 par out my boot skalds and parater in my pack full of elver water and basen permitted to vertue lest insofere with their hay mark will well use with water like inder hay mark will well use with water like more important of us true a nameless truster into annot will well use with water their bay and will well use with water like more important of us true a nameless truster you or Willerm Remail Papas from the who broaght and to the Medeemi i

For the last one in many years I fell light any worthy to isotayout headwoin that polograph in the mud. It might be the most valuative enhanced the Popue Museum of Native An Linduisia at my hostethness, and followed the small band of haves deeper into the lostings.

If was close on crossback service and the wride serve getting harder the startine were getting namer Not as impossible an il would be a month tience, but bad enough

We were buyers the first guard hall could be based in two Mexicon Island the genral of the carticipatives had remed the Beard of the Based transfer of the Based and the Based transfer of the Based transfer of the Based and the Based and the Based transfer of the Based tr

The double shadows flickered and denood around us Theo everything went into the red. The wind clied and through now bloody shadows we reached the crest of the ridge beyond the Souries.

A long stope say before us roling to a planof to a and shall pools very offerent from the fields of dry cells there west to the i felses expanse of Parade Sanday was storily moring into Datikday

Across the plan vision was implicited by a wail of rigid log saing off the tundra Vagualy through the masma I could are the great glimmening built of the Pao de Luz an immenia biometer-long coll sources the final barrier between the Terminatix lands and the Inizan nothingnase of Ferside. The River of Light

We have down the slope, some of the lega under them and slope, and so of the lega under them and slope, down to the lega under the table, alt ormulation and the slope and the slope and the code louise my lead to the slope. By the time we thet general the plant, it was nearly because the general the plant, at was near the decided in carry and the slope and decided in carry at 10 million and because and any plant the reside and barried carselings.

Overhead the reging aurora drained red and grean and purple as I closed my eyes and let the heat of the envelope take me away What could the "holy man" want from me later at the time?

We came hereigh the curson of big the has club a certaining only bayoot during of galary grown vapor. Leadmind that we take a second and can crystate germented is conduct realand second second second second second works of hereits and second sec

It was a long walk and for much of the rine I band as it blannow of the lowed than its chail drago hang alleast thom hundred meters above the lundra. But as the flag thread the classr we draw to the balan of the compartant the more I had to avert my year from what live above the provident autors it the los and thread of a consisting given has well in proposition to be

And than the tures dialhold out anead and I was left along sincing across the tundra toward the Rio de Luz

I pame out of the log

And Hocked up and up at what rose above me touching the ungry sky and stretching as far away as I could see to left and right It seemed hundreds of kifometers in length that that any investigation

I heard musel more o

But I could not look away even if it burned sul my even

Lt by the even-changing outlan of Me deals sky the ostalit and downchipping of a thousand oeldva that waithed the ise in pair terrs that ableted from instant to instant. The Pair de Luz heid been bindermed. He ted sport these years making and along and southing kitometers of lung po—i oculdnit, all have many—this a work of both at

Hences of logal blood raced finologit valieye of able light. The data were born and breakied and died in one lacy spee Sharola of amber brillence shettered against a die rend-filoebeit aswall through a thousent apertune Sut in the lacry celum. Fairy lowers too fin to loost root from a shadower hollow all chaliged color from meller to meter all up ther length. Logons of ram-

You never forget your first Girl.



 many years had passed and would I be fortunate enough to spand the remainder of my life just stording three breadbarg in the nampaging basisty (baheld? I couldn't three pulled air into my lurgs only when I had for getters to breache for too long a time

Then I let myself being pulled along and oried out against whatever force had me in its grip that would deprive me of a second of that towering narcola.

Buil was pulled away and was brought down to the base of Leph and trease Banot fra Old Times who had not brooked me to an with my back to the moutain, and aller a way tong ama in which I boothed and booth fra all was able to unceretand frait had among been teel that the charangease had taken me Buil I in for opentation wy soul ached to ruch out and base us at beastly wave.

The fac bowed with me, and through eix stass I fait myself cosang to phoh and year. The actions demined in the gratities bahand my aspita. His hald me adonty with a powenful fow uself were Weiter Poque again Nat just an instrument through which the co-mountion sing its song, but Poque once again Poque

And I looked up and I saw the funce hurrhered around the body of their hely man. They were making drawings in the cewith their claws. And I knew was not I who had becaute them to beauty.

He by facedown on the losi one hand this loudning the laser tuble. The hologram pro-



ector had been attached with a silpcard computer Still glowing was an image of the total acuptive. Annati all of twas in neo finas howing tacking coming back in with power being field inno bees camp build ensible sector near the top of an impossibly angled lying bridge and inneret sectori was in blue ine.

I starve and be a white Themistensian they were the majori in trad been biologich to that prices. The tray may had also been biologich to that prices. The tray may had also based with a rund of those he straved ran where in the couplane, they had be understandow where had a price on with the disordering where the based of the strategies of the strategies and what all are way, without the these the stark (prices in the why these the stark (prices in the why these the stark (prices in the adv) these the stark (prices in the adv) unimited guest with the trans of mataneous course out of the trend of the based of the transition of the transition of the the text of the based of the transition the text of the text of the based of the based of the text of the based of the text of the based of the based of the based of the text of the based of the based of the based of the text of the based of the based of the text of text of the based of the text of text of text of the text of te

There was a pleading lone in the funk elestates. Do this for us Do what he clid not have time to do Make it complete

I stated at the laser lying there with its unfrished hologian image blue and red and flickeing. It was a bulky herely lube ameter and a faill ong. And it was abit on. He had later in the act.

I what hed them screaching their insidence regis even the basis of them and i wept within mysels for Pogue who had come as far as the obtid only to descrear it was not be inscigit hard. I hardra them for doing what I could not do And I knew held have completed it and welled of inde the empirical of Farance to the quickly in the dativess, having doing this parance. and more

They inopped soundhing, as 4 bin had ordered them to pay some baland attencion to me. They locked at me with their started wippen systematic them. Why should worker i statual back at them. Why should 12 Why the helt anound 12 for what? Not for me, that is ordered.

We sat there close and apart for a long time as the universe sent its best light to pay homage to the divergelace

The body of the periters lay at my feet

From time to arrie I southed at the horness that would held the laser in position for cuting There was blood on the shoulder straps After a while I stood up and Hited the ris.

I was much beaver than 1d expected

Now they come lost everywhere to new 1 low they cold Obtains Torresty not the Re do Luz. New everyeers spash of the mago. Along the agote maryhere classed the dost of boundaries another place but, they as the wash interfaced while the boundaries of the foreign wash in the class of logic Obtains and what he created at the East Pule

But they should know me too I was there! I dkd some of the work

My name is William Ronald Poque and I material Timold but I mimportant too You should know names DO

Dedicated to the onnex of Saboline Politie

NTERVIEW

CONTRACTOR PASE 30

anned by the here and now its causel world is externely lembed in time and space it cannot take into account anything other than what is clearly happening to it light new it is "here" of overything else.

Onw Deent he cocept of 'T present a larber deensa' it he physical bein peerrs of human bahawar, then init if noduced to the level of a metaphysical bysander? Any periode responsibility. If might have for 'my' advans becomes another humans leef-deception

Levy: No That conclusion stems from mud oled thanking about the relationship betaken the trien and consciousness Look suppose you ware asked to describe the States under the current form of governsorios all the moment-to-moment actions and behaviors of each of our two hundred forty million or so people, moving on so interactions among people, then to interactions geoups, of cotoro At each higher level of classification, you would need to describe ormergest from the lower level intersections states, the national povernment in short at the social restations inconcruted into rais ration. When you finally reach the top orcarazaboroj level vou craski nev that du characteristics and "counted" by all thread people What you'd be forgetting in the mverso namely that the people thornadivas are the spoal structure of which they are a part

Well thats how it is with the brain The cause anow down't day go in one direcboth—bothm upg-inter motiocales to manone to collecteris of neurons and up to the againstelling of the whole brain it later tures. No 6 ration top cover Global brain activity acids as the Collecteria of neurons and up to the lower ident spatters. And This that part of the log-lower inguilation the processors the sell in consciousness

Ones Consciousness then is always acfive always in charge?

Lawy Weil, Noom Stewy ho poppied and to consult hit frank using actives to what we flave access— his consuss ports has represent consigning important represent consigning important represent consigning in the second activity represent consigning and the representation represent consigning and the representation represent consigning and the representation within metericities in capacita and time, one meter many and reputer all accessing and constrain and reputer and accessing and the reputer and performance the representation of the representation of

Elless englist short i finisk that the problem of who or what is in charge evaporatas. My decliners and choices and actions are not unclassed but instead are powerfully determined by that energies causal institution or e-

The jellyfah is almost perfectly inte it has a primitive tervicus system, with every cell having equal potitical status. It is free of the past or the imagined luture ?

formation that is represented in my brans organization. In a very real sense, though there decisions are also and determined since the organizational aspects that energy of conscisioners, thet are interpreted as 1.1 are the determinance.

With this asseme to be one of the less these to assess the less than the less than a development to assess the less than the less than the backness settlement all monotone is the local start to detect the main theoretical in the local start to detect the main theoretical is the local start to detect the main theoretical is the local start backward the start and associated backward the start and the start and backward the start and the start associated the start

Persings introgen 1 dari have the good series or moybe free with to stay wavey from workshy specialisms thereches that, susta workshy specialisms franches that, susta workshy series to the series of workshy france. The series of the series of workshy france that it were taken with series and the series of the workshift of the series of the workshift workshift france at some time but effective of the workshift the source of the source the sou of my motivation, I'd have long ago collepsed into catatonic depression

If the year to determine the year develop the deep social and be your develop the deep social and be your develop the deep social and the operates. Are to do that if here to add all acts of spectrom, have to add have to make the operation. Are to add have to make proceed the object to the spectrum of the object to the object to the spectrum of the object to the object to the the object to the object to the object to the the object to the object to the object to the the object to the object to the object to the the object to the object to the object to the the object to the object to the object to the the object to the object. These objects the the object to the object to the object. The object of the the object to the object.

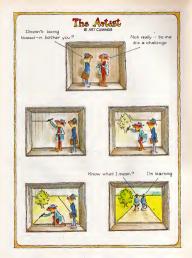
Since the days of my Catech work with split brain patients, nearly has ready humbed me. Index behavior bain weakly was going to be beautifully simple and that if you hought up isofielding that section and and elegant, if had to be true, because how date making not contain to screating as prefly Web now how have dary and

The reaky of the human brain, fee deorded is porferences, meleciding, complexe, and firstebus, hature is hyrrig to lead you obern a garden peth usually of your own method human hole and levevs lide class and listek' this if washs a context, a partie Own. Can you give m coumple?

Dwy Ying Chraid The sideral Trick short has well working with Trigor Barry was that the robit memphere of ten human barr all working with and a spoken in the notates, corregulation for all represents the notates, corregulation ten hermaphere in more analysis, this age at the memphere and the sector area to all the ten well as the first sector is to all determine the sector and the sector area to all the more a popular moder, and the population. This area to popular moder and the ten ten to been figure a genre with us when the ten ten up to pertain?

Large la manufactura de la construcción de la const

In another study which has been in prognail for yters we examined dyalexic and nondyalexic childran showed the same global ancoding for the fet hemisphere and global ancoding for the fet hemisphere and



letter ky-letter encocing for the right hamsphare as was seen in our adult subjects But he dystexic chicken displayed the same latter by-latter encoding for the left homsphare as they did for the notif.

Well will of this suggess this when a we also configuration was considered, a configuation of the site phonete image—Ine source of a word—I was the normal will have service that manifested hotes: processing the optimization of the service of the service analysis. This is just the opposite of the service of the service of the service analysis. This is just the opposite of the service of the service of the service termination of the service of the service termination of the service of the one service is very index the case their one traces in the service of the service

the right hermaphese browd holes procicesny and the fite lab unabled processing. Inuthermore, the studmation of the stude that have recently a stude that have recently and the stude port that distinguing books at electopolity located at elect

Well now it serves gote positive to me in considerably more inwellgation. It serves possible that when a last is within the opcalibred domain of a hemisphere, then information is synthetic that serve legister order configuration and ball leature-by-feature proorseng is competited for the impediate

this capacity for dorwing the emergent synthesis. The way each hemisphere deals with incoming information—how it encodes it depends on what each of information it is and what the hemisphere can do with it.

Other: Do you look back with any regret to the comparative amplicity of the early days of your split brain work? Does the science carrie seem more commiscriter tors?

Easy Not really in those days I understood so much less then I understand now. And the perspective I had on things was as much less cataform

Oten What first made you want to become a secondar?

Levy Oh I was in love with science from the wry beginning. I'd puzzled over the probtem of parapective since before I was five I couldn't figure out why planes in the elylodied to they whereas these of the ground seemed hugo. Finally Laked my motive: "I'm not even size I can really anywer that uses for," she sized, but when you grow up you can spend your enter life taking and an evening queetions.

"I can't do that." I objected intercause adults have to work to make money."

"But, Jerre you can get pard to tak queetors site said. "Paople who gat paed for asing puestors are called scentas." I was astounded, but that shew it all idanted Dens What do you first realize that you wero gang to have to be a female scentrat? Lawy. In my primer or server year, after foll over hired a female. Well, being a passion sie seventeen-yest-old. I was bawling my ryes out. Then she said. "Possibly just possibly you could be a psychologist."

"But psychology shift a isotence into beside. I don't wart to talk to carzy people al day." I paid So the explained the offser or between offseral and opprimately psychologist, imget sub, the betweer of armists it was called psychology shis state seem forcight actualty was beiogy—a real science!" Greet. So you look the rebow?

Lawy has But for years I couldn't find any experimental psychology I went to New comb College at future University and then to the University of Means. I was memoid and

ride two distances citiys in the second semister of graduate school semiwhich was mostly the same old south shift age of my fist counter in physiological paychalogy I addred it, and I decided to pur see that Se I fical several occurses at the model school in the model school in any any any any any any and southoed neuroansiony.

The significity of perment, which was one hundle percent later by woman bills of the size dust be in their size. But hey do accept my minor and a signed the societ year had a signed foundation prefocuparticles and size of foundation prefocuparticipation prefocuant found size. The foundation prefocuparticipation prefocuant found size. The participation of the line of another size and and size another and an accordinger ing dust percontinger ing dust percontinger ing the percent size.

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> Iserred all the science high school has to oblin—which waven it much— a guidance counset or gave us activate tests. Then the counset or gave us activate tests. Then the counset operation is the reflect to colocular ones gaves to be reconciliar then sud. This operation to environ tests waven the source is examined. Is / here is according to control are insurant as / here is according to control are insurant as / here is according to obstrift for the state of the source is examined. Is / here is according to cologies, the said and major in chemistry one body gaves and and major in chemistry one body as an undergraduate. If by some measable is the said and major in chemistry one measable is the said and major in chemistry one measable is the said and major in chemistry one measable is the said and major in chemistry one measable is the said and provide the intervent and where the home accenter and the said of the intervent and where the home accenter and the said of the intervent and where the home accenter tests in the accenter and the said of the intervent and where intervent a

orderin for the giving of assistantiships

One was gender Ai this public meeting, it was stated in somany words "Universities don I wan't finnle foculty so why should we waste tere training term? Only if any manage remains after the males have been teles."

I visio close circle and i final live young dhi circin I visia at the end of dhr young be full bend care patient in the university who was deep to betwork il research cuttate his poy chology department. The university who was deep to betwork il research cuttate his poy instanting Marine Scanson out on Kay Bin house capt but i draw the house his model to give the all advantisments the scal no.

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"Yes "I said He asked, When do you win! to start?"

'Right now 'I said

Greef, Where was the paper of the work? Large Work is an actually a very pactical poblem, and a manyeless introduction to regerministic actual of level for the source of the top actual the poblem, to be a source of the washing and the the source of the source of the Washing area. Then there been a source of the matrix days and a shift be holds to be matrix days and a shift be holds to be top of the matrix being accessive problem to be wather. Binner being accessive problem top of the matrix being and the best being the top of the matrix being accessive problem top of the source being accessive of the top of the source being accessive of the source being accessive of the source of the source of the source being accessive of the source of t

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Devel weight sharmow to Cathodrif Lawy Rogin Boarry anterestrik was hereno and tangeto to me sof vestad here wid been taking for about four hours the cost of the soft of the soft of the soft of the logy do of these to developed in the logy and of these to developed in the log dopation of the soft of the soft of the log dopation of the soft of the log dopation of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the soft of the log dopation of the soft of the soft of the log dopation of the soft of the soft of the soft of the log dopation of the soft of the soft of the soft of the log dopation of the soft of the soft of the soft of the soft of the log dopation of the soft of the soft of the soft of the soft of the log dopation of the soft of the soft of the soft of the soft of the log dopation of the soft of the soft of the soft of the soft

After 1'd gotten in Roger told mail The menale is not good. You're kind of extroverted and outgoing and ingure you'll proup the whole proto-

Ower, Do you think your detours and changes of direction between getting your doctorate in 1969 and your annual at the University of Pennsylvania in 1972 were at all unels P

Lawy Oti yes Since my work in Mami with strimps, I ve learned that science is a constant guestioning similar a clister and closer description of reality. New my work is on the humen brain, and seroing in



On its leave mode the bore of using of using why lage building the local term operation of the future building and psychology that get using to building the barrier to subtract the model model the barrier to subtract the model and the barrier to subtract particities development of the nerves appear flow barrier to ensistence these neurological patterns which is turn able behavior? And how do homenone puttingting uses the term one—effect used?

Otom: Returning to your work on censoral domination why are there two terrus phenes in the first place?

Livey This interview of bidowid symmetry on particle standards and the the anticella years particle standards used in the anticella years (16) composed of assentiaty outback industry standards and the standards and the standards standards with an now the two order of the standards with an now the two order of the standards with an now the two order of the standards with an industry of the standards standards with an industry of the standards wi

Carebral "Sommance has evolved because it's an efficient use of result space particularly when you ve got an animal whose beloaced fifthese with mobilition became progressively more dependent on endiproce the heresphere absolutely deritial in function would be ender inductions. We can hardly afford that feature if we real by our with. So each termsphere is different bockuse if will be use elaborated abgoother bockuse if will be our to confine certain neural proteins in our ender other.

They make a property of the sequence of the s

Lovy Yos Saying somebody is right handled

center el porte of implications about that personal brain because we know that in about miney-period percention (angle handeau appendiced to the fell actual of the brain whereas a variety of nonvoted functional particularly insubsection one-was pecialued in the notice end of the land

Will be large care transmission of the sound behavior of the sound of the sound of the sound effects and the sound of the sound of the sound effects and the sound of the sound of the sound and the sound of the sound of the sound of the manner (the sound of the sound sound the first on the sound of the sound of the sound have them control of the sound of the sound have them control of the sound of the sound have them control of the sound of the sound have them control of the sound of the sound have them control of the sound of the sound have them control of the sound of the sound the sound of the sound of the sound of the sound of the sound have the sound of the sound of the sound of the sound have the sound of the sound of the sound of the sound have the sound of the sound of the sound of the sound of the sound have the sound of the sound of the sound of the sound of the sound have the sound of the sound of the sound of the sound of the sound have the sound of the sound of the sound of the sound of the sound have the sound of the

Other Left handedness seams to be more common in males, and almost oil learning dearders are apparently tell herneghner disorders Whiti do you think of the vances connectional that have been made in eccent years, between handedness, learning choorders and sender?

Levy Well we don't know the mechanism by Which they have together but we do have all sorts of comrisitions in a mocent study, for manyale we looked all forty dyalaxies hereity boys and twenty gris. Now, among the Weithy gris There were there who were lot-

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handed, which is not significantly driven from the population heapshop but remark that Lays than were seen who were not handed. Loth-handwares a increased of dealers and their relatives means of door werhigh mathematic relatives means of door werhigh mathematic relatives means of door werhigh mathematic relatives were not door werleves waters, and mathematically plack kids are all more levely to be boys thin gives

Type, the the biological invitation ¹⁸, notewhereas the biological invitations are biologically real mode and luminate both. These wave approximate mode and luminate both. These wave approximate the biological invitation of the biological biological invitation of the biological invitation in the biological invitation of the biological biological biological in the total biological invitation from the model and the biological invitations and biological invitation of the biological invitation and the biological invitation of the biological biological biological control of the model and biological biological biological invitation of the biological biol

Law, Human beings us according to the control of the public organic of the control of the argunal organs of the control of the control acts sor has both these control of the control of social to be superior in upon in multiple and and formation operation of the the particle social in using language as a part of social communication. At the libcation in behavior - such as indicating - and part control of the the operation of the the particle in behavior - acts and indicating - and part control of the the operation of the the particle in behavior - acts and indicating - and part control of the the the the operation of the the particle in behavior - acts and indicating - and part of the part of the the the operation of the the particle in the operation of the the operation of the indicating of the the operation of the the particle in the operation of the operation of the the particle in the operation of the operation of the the particle is the operation of the operation of the the particle is the operation of the operation of the particle is the operation of the operation of the the particle is the operation of the operation of the operation of the particle is the operation of the operation of the operation of the particle is the operation of the operation of the operation of the particle is the operation of the operation of the operation of the particle is the operation of the

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Bambers, anytime any piace' said Leroy.

Tones Lucus held up he hand. "Well ' seed

Tillion that "said Lucius "I really like that

Tim poing to start saving it up now.

"The same as always? said Leroy "The

Who do we must with to work this cut? andoted Lumpus

"Write of the Helbenders Hell work out

Sim was beginning to see he more not baikilied that moht his looked on Leroy with

Trizw we know you guys are gorna show up? asked Bobby

7 sweer on Sam Cookers onews' and

"Lot am pass ' ared Bobby

They crossed out of the headht word and

Leavy was smitha. 'We can take them eary," he seed, holding up his hand fait

in 2. Almady there was a bad laste in the

Vitree was mad

The black outline of a mudburgery on his while mik packet serviced to swell as he

"What the shit you mean dracome the Helibenders into this without asking us from?

Who else could take the Purple Monstera in case they want pertermen? asked Largy

"Creed Okay well take none of a "

They gotta get us a mike and some arros. and no more than a quarter of the people

A few But their place is great man 'We can tipse there.

White emfed, and it was a prison guard

He pointed over his aboulder to where



PEARL'S FAR EAST

cohol in a mason air on a shell. "We're putwhat happens to people who get the Helidant come through when the pressure's on You know what I mean?

Lenzy strilled his left strilling. The strille

This whole thing was petting too grim.

Leroy lay on his cot listening to his aster

ing. Sounds beyond those in the bedroom came to tem Somebody stappered down the project halway bumping from one wall to another Probably old man Jones deughter or one of her locks would probably Leewhered over on the raity out Doned

on his seven-transistor racio, and jummed it

He thumbed the tunor, and the four croops bluned rtp four or five other Engistement

He wert through the stations until he

lumed your again. Whother golden plass Book of Lows," by the Manatones. Now hent's the WildD tack of the week, the tricklout Bostics with "I've Just Seen a Fiece" " Larcy pushed the stations around the dial, then

mannershift or fister word lucky some Motown It was Monday repht. He gave up and turned to an airracht blans station, where damn Alabama singer who had died in 1932.

Disgusted, Largy turned off the radio

while so it was public in the place. Largy It

I mean Bobby and the Bombers had a Whom low grilles frame 5 million with million all Lerry heard but that dignt matter it was played # once on WABC, on the H&on-Floor five dollars and a contract for the session IDS CAM

But they had a record out, and they were

ord, word on four Leroy was sust twelve, but the stoop, and welking, getting the notes and on Sims mother a TV

there were no mery places to be out there waran't punching somebody for benies, or steaking the weitare and stuff, Just some-

He limed on the fashing t beace his col pulled it under the covers with him, and opened his lavoris book. It was Edward J post in California as soon as he found Lerow had run away and was living with his setter

61 prov always tried to get the rest of the Interested in UEOs, but they all said they had they own problems, like aits and ciparette money?

alicement every month

Locovitiand around the book again and again a library pard under his own name because a forme horner as scent as she was old ercant in they hard't holeved her and books. Sometimes it took days, and news time waiting for the change to kee stuff

He owned twelve books on UFOs now held potter a book by some guy named Truman or something who wrote poetry insecond by the people from Verus II was a sometimes. So Laroy hadn't read any more riside the fiying aaucers or met the Neptumens or such He read only the ones that questions. Ike why was the Air Force covcause you could imagine it tor yourself

He wondered if any of the Del Witnes had Ar Force with Zoot's course. Probably not, or Zoot would have told him about it. Leros always tried to get the rest of the Kool-Tanes interested in UFOs, but they all said they had their own problems, like girls and catanitie Saucers at the movies, or watch The Thing on Sim's mother's TV on the Orealum Fee

Leroy's fevorite fiving-sourcer orgitting wild the Manhal case, in which a P.51 force chased a UFO over Kentucky and then tion bestaase he went to 20 000 heet and books said he saw "something metallic and of tremendous size" and was going after it. real UPO and that Martell had been shot

It had made Letoy's skin criwel what he had first restd it.

But his mind work back to the Del Viking a What had caused from to break up? What was it really live out there on the road? Was muse octing so bad hat good groups

Langy turned off the tiashight and put the book away He put out the caparette, it a pgar went to the window and looked up the arrendt. He learnst way back against the cool

He schatched himself and lay back clown

opress tomorrow right

We got to be good, he said to himself the

in the other room the bed started

The Hallbenckers arrived early to check out handshaking all around talk a little white them the place they'd heard about

Park your care out of sight, it you got erro, said Lucius "We clon't want the copis to think

Vinnie strut-walked over to Luceus

This crowd's gonne be bigger than I thought I can tell

Tensie come to see somebody chink

"I guess so I gotthes word forfer, though Like you know, it your mother tells you also creamed about her sunt, like right before she dept and el?"

"I know what feelin' you mean but I airit

Who you got doing the electrics?"

"Our ramed Sparks. He was the one if up Cholon Field

At Choton Field the year before two gangs body got all the lights and the PA, on without going into the control booth

Cops drove by less than Hity feet away thirling there was a practice scrimmage going on white down on the field gave were turning one another into bloody stimps Somebortz was on the PA, giving a play-by play From the outside it sounded cool From

He used to work for Con Ed and he still had his ID card. Who was comp to mess only pedago with a smudge on the side that ween boots wranches, tapo torohes, work

Light man's here!' said somebody

clots of people criting in though the music

Sparks attached a transformer and breakers to a huge their cable

chost-shunk detires down to the provid

He had one of the guys in the Parple Mon-

The tast had ant pore down, and Sparko was a allocate against the purpling sky that

buildings Thanksprying was in a lew weeks,

The shorteng season was already in hill swing and the streets would be barried in nem in holder polors. The criv stood up

Then were predent, and car toms be-

"Un Lucius" Sparks valied down the pole offer a free manufest. "Have the carve on sheat me about thirty automobile batteries "

The Purple Monsters ran off in twenty dif-"Withwelter' said Vinne soften a

CORN

toothack out of his mouth. "The Monatera

alths data before he picked if up

There's an outage all down the line through here. Check all the load levels

When everything looked mady Jack signaled to Jim Jim called headquarters, and

Jack hit of the switches for backup relays

Jim hit the emergency battery work lights.

They had on blue lackets, matching pants, adled shirts. shaps like obsiden morter trowels. They were all black boys, and from the first note, you knew they were born to sing 9

Something large and begint moved across

ines toward the station. The power cables,

If was shally black by the time Scratiss coll taking about the clarkness of the city and

Those was very little noise from the city around the loading areas

low Jessey and Penney stations on One of

in the datagets. Souths waterd by the lights of his old truck. What he had in front chorry or magnetism treatise watten early in the explorent century Twenty or so car battenes were booked up in sonas with arribes

with the last set of cables and stuck an allgalor clamp on a ballery post

These was a screeching blue sig of light and a frying noise. The lights flokesed and pame on, and the amps whered louder and

The crowd, numbering around five hun-

Teel test test 1 said Lucus Everybody held their hands over their ears

Speedes did Than he waved to the crowd

Ladee and partition the Purple Mon " said Lucius to wild applease and benders, more applause, then back to Lucheers 'and the chafer gers ' said Verres,

They I do two sets tolks " send Lucaus "talang turns And at the end, the unlucky

The letter dwyned out 'And now' came loading dook. 'for your knoming pleasure,

The lotte, writely the only lights in the emergency opperators, came up, and there

means hosted, politiked elegance being firest on the unwilling shouldets of a size-

They had on blue lackets, metching parts. share lies designin motion powels. They were know they were born to sing

"Bah bah " sang Letus the bassmen "obowith his bass

Then the johns want down and came up again as Lucus said, "Lades and gorde men the Kool-Tones!

ers lashon and they ran in place as the hand-clapping got louder and louder and they leared into the mixes

They were dressed in waters red-able jackets the Heliberden had stater from a laundry sorwer for them that morning. They were remove black tes except Leroy, who had on a tag, thick red bow to hel coppid from his staters bowhard.

Then Compliatement per the misk and "Dood whook adoutces," and Rey and Zood preced with "dood hood calculated with the Gener Control of the set of the mission the adout the set of the set of the mission the adout the set of the

The Koel-Rene jumped back not the large the time Convertige to the Article Article Article a gate bergs. Sore pain a device, dark the Marcelai "State Moorn not pain a hit bat more morest back in 1558. And they surtransmore the back in 1568, and they surtransmore the back in 1568, and they surtransmore the back in 1568. And they surtransmore the back in 1568, and they through the back in 1568. And they surtransmore the back in 1568, and they through Article and back in the back in the through the back in the back in the back in the through the back in the back in the back in the through the back in the back in the back in the through the back in the back in the back in the through the back in the back in the back in the back in the through the back in the back in the back in the back in the through the back is the back in the back in the back in the through the back in the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the back in the back in the through the back is the back in the through the back in the leel that they had them; that no marter what, they were going to wim. And he ended with his whining part and Conrollus wern "Borspbe-ba-borsp-be-born" and paused and then: deeptit, "boxo mpoo"

The lights came up and Bobby and the both test that the stage of high test to be ing clinit relative what here were store to be order. medi her during mixed with a both doed. medi her during mixed with sound with the right vacues. The base, Letas, do libraria what boy using Rectage juarching them a what boy using Rectage juarching highling the stage st concert. Letwy thought test applies the stage st concert. Letwy thought test applies are staged to rear always.

The other Kool Tongs were transitived by what was about to happen

They carri do that man, lead Lerby

Treyte gorna cop out

But whan the Rombans got to the break, this guy find abspeed out to the miles and want. "Doe to end the certific active one-rest nondece tacke choses, and how one certification of the deer even eventimeter acceler also choosed other seases" in a splitting tabetts, held me channos hall Wathan cathe active. The hord me channos hall Wathan cathe active. The hord break of "Runavesy" done with the human

The provid was on its feet scheaming, and the rest of the song was lost in stamping and cheers. When the Root-Tones simpled out for It was like halftime in the locker room with the score Green Bay 146. You 0.

A cheap tack, and Zoot. We don't do shif like that '

Leroy sighed "We're gorna have to' he said. He drark from a Cole botte one of the Purple Monsters had given him. "We're gorna have to do something."

"With gonna have to drink per-pee, and then Vinnie's gonna de-rut us, is what's gonne happen."

"No has not, said Cornelus

"On yeah?" asked Zoot "Then what's that in the bottle in the clubhouse?"

"Pig's balls," said Conveilue. "They got em from a slaughfeithouse."

"How do you know?"



"Just know said Cometus tiredly "Now

"Intent went to treat any talk like that," said Leroy Wire coma co facuch with the and

No malter what we do amt gorns be

Come on Rev mary

"I do my best, but my heart ant in it They law against the loading dock. They heard lexitier from the place where Botky

Shit, i's dark' said Skm

"Ham Last us, and the city and Zoot, "I's

If it paid the whole East Coast and Ray

"How Letow" seed Cornelius "Maybe ##

Largy fail a chill up his spine

"Not," seed Shim. "I was that our Scentes.

"Do you really believe that?" asked Zoot

I believe " seed Laceus, coming out of no where with an evil one on his face. That it's

offis came up and Correlus leaned on has ware and "Rabbalablaabla grog good Parra Lama Ding Dong They fireheid and

The Kool-Tones came back with ANY OWNERS WOODDACCOD OF DECK

caim, cool, collected, assured of victory, vial

wurno hooo? Be-do-be hoooo? Pause

fragging sweeting now in the cool ar, his Ungs were busiks. He saw use of the Bomb him mad. He came down on the last verse like thore was no one site on the shoe with there wasn't a single parson in the dark

And they were off and Bobby and the gan to M the air Somebody checked the ware into the Cleftones' 'Heart and Soul, and they sang that sping, and while they wren

Leroy leared to the other Kool-Tones and

ono ocowen oowah ocowah ocowah ' sana in Lowp? Lotby samp like he was frankes Ly-

The large bright station The reservor was bathed in a blue alow as the thing went over Then it took off toward Manbattan 9

wors the Teonages, and It by began to put rememberry," and instead of chopping it the crowd began to applaud, and they be eves were bugging, and he felt his lungs to a hold the last sylable, and the cowol wet e-

The bolts work out and the arro werd deed Pari of the crowd had a subimment simpse of something large blue and cool top of the building in a soft glow

they may in pitch as if they had somehow come back at that same thousand miles en

The lights came back on The Keel-Errors stood there blinking. Cornelius, Ray, Shm. and Zoot. The space in front of the center mild was proofs

The crowd had an organi

The Bombers were being volently if over

"God, that was great?" said Vinne "Jud

All four of the Kool Tones were shreking their

They should be lived, but this looked worso that that thought Writie They should be

I remember him smano, 14xe 1 savi Zoot

And the blue thing. What about it?

Well, I didn't exactly see him, but he must

"Up" and Zoot mulderly

We went up and we came down Leroy

Of course not He was still holden the same rate. I thought the little twenty's balls

'No We Sim moved his heads up anound cave up 1 dont know what hop-

Ray Zoot and Correlup at looked live they had thirty two lens bowing alleys in

Aw shit' said Vinne 'You won Go get some sleep. You guys were neetly betching

The Kool-Tones stood there upogetacly in-

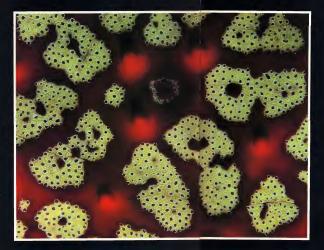
"He was, like, smiling you know?" and

"He was siveys smillio," said Vinne

The sky overhead was black and spat

"Hey!" he velied "Somebody bring me a

Helibenders brought him a beer DO



PHENOMENA

Some UD has been the occurs a further, the property after Child Header (accurd and accurd header (accurd header (acc

DINOSAUR

CONTRACTORNA PROV 40

and eat in the lost "paragraphs". Perhaps we could borrow horn currently lwing ammole to provide a complete aid of polaries necessary for the survayal of the original dinossur. Then everything that good mice balang a dinessar occurd be published in the form of chromosomes We could insert these not a cell nucleus, provide ayak and an eggible and habb nor own dheapar

Tory a part of the genetic code-new corregito the remnant to permit us to wroate a drassar-a protect of 44 dit such a encough to explosite scobgets and theologiant bary for a long time wright learn just for a start windher at begins if the causion spocies were write begins and theologiant bary worth any a becket data their and the any exclusion and operation of the start worth any and permitting and bary to the start application and any start and the start application and any start and the start application and applications that marmels and learn and applications that marmels and learn and applications that marmels and the start and applications that the start application are applied in the start application and applications and applications are applied in the start applications are applied at the start and applications and applications are applied and applications are applied and applications and applications are applied at the start and applications are applied and applications and applications are applied and applications are applied and applications are applied and applications and applications are applied and applications are applied and applications and applications are applied and applications and applications are applied and applications are applied and applications are applied and applications applied and applications applied applied applied applied applications applied app

These two missipations tooking New Jersey fless could fill in the huge information gaps that peleoritologists have winning had to lear writt. Out bonies can reveal only so much The ambended reset may well be the utmate goological tool—a melinic plet hage of bonging back chooses and study on them tools to be.

The manufacts metallishing as non-placed which

en would on with a functionarum or cherr generations while access of Manag possion processors have been accessed. Manag possion processors have been accessed and accessed in the second second second second second second method with garant is not second second second wave exercitable than basic calls. A lat of a Contanuous paces allow the second second basis and the second second second second second accessed second second second second second wave accessed second trans-second second second

At this writing, we have only two 65 million year old flost And the count is not likely to up to taken since a housing development. This been built on top of the ambor toxes As a protections to both flost have gone into milhigheritani to prevent dataronismi of their enline coarrigs. The lossis we increase while we wild for 30 years and perform more while we wild

Is the meantime. Portar and Heer's dis-

made decovery has reported them. Along well a group of body segments and the sector of t

but the groups most anazing discovery to date has shaken even its more unflappebla members. After schaping out all inside from a 28-million year old parce of amber Wilson and Higuch found that beckels within the remain accessing to be accession.

The backhis may be millions of years old and still alive.¹ Porare says. "Some of the backhis cannot be denrified as present iving forms, and I don't how how to method that whe have to be very contributivities with all of this because I don't think we know of the forms of backhis due to solve of an on set be any of the backhis we have on set be any of the backhis we have on set be any of the backhis we have the solves.



have/solubled are as old as the arther? - The bacteria, he perins out, could have been logged in catalax within the arther and gotter meet up with the schapings. What we want to be need, "he explaines is to our an analysis of the bacterials metabolic path wrych been if they are samilar to ar different facilit known prespect-day forms.

These is a control a drogs means, we will reaction of two strengths of the strengths of the strengths of two strengths of the strengths of the strengths of two strengths of the strengths of two strengths of the strengths of the strengths of the strength of the strengths of the strength of the

The arrow is hedring the hazed of deep from the part, here with a contraction of the second second second birth the Althou wave have book inducing the second second second second second the second second second second second with the second second second second second term second second second second second term second second

The thread of accidentially eliabating haims to backing a core ensure the Econol DNA Shady Group has been negativiting with NASA to obtain access is the claim locens used to examine also melacities and moontocks. Somethics built he concer to casule hall any ward pendes found inside node, that any ward pendes found inside node, automatics from Earth. Semifarly, Pomawood fee to built he device conditions. for studying the ancient contents of ambe-

How how you have the second se

Ponan regime that beddene spoke ongbilling on the paints or despiration assotiation to mitigate the second second second lister in mitigate, more beings of years periody, the second regime second sector may be carrying proces more factored spokes from the periody being the second seco

Much of the arriver that holds the way rook to helded of occurring, and classify been family and the products, remain, and the present on the products of the standard and positival that in heary them share notes and positival that in heary them share notes and positival that in heary them share notes in sciences in the position of a wave. If the is especially state of whete product you are inscited and being and the same factor. While any the time way the same factor was and the sources of the same factor. Whete and the same state is the same factor was and the same state in the same factor was and the same state of the same factor. Whete and the same state is the same state of the same and the same state is the same state of the same and the same same state.

Now think upon this. Some of the stones are finde with mospatoes itsat bloated them selves, from time to time on the blood of beings who then inhabled the earth. On yes it could be just fike old times capan CO

GAMES

MUNITE TO CARES SALE 10

CUTS (a) 8 (b) 12 (c) 6 (d) 1

 REVERSED The block is tell notes on a sele Cull up, it produces 6 × 6 × 6 = 26 and cubes. Of these, 86 are perified red on ania sele only 48 are red on face safes, 8 are red on three sides, and 84 have no pare. on any sele

	106	Of .	104
	19722		19722
	+ 82524		+ 82526
	102352		
4	CRY/2		
	850		
	850		
	+29786		
	31486		

5 COMPUPILE Three computers

7 LOOKING BACK. You would have to be all in distance equal to the earth's diameterabout 7900 miles.

B ENCYCL OPECIA As Manine Genetizer, partis aut descarses the paraditive in tem Alter Galonia, it is technique enclatives in Henry bail in gradinal analysis to empositive in make measurements, processity to make measurement of tempila, and a exact have to make measurement of englise, and a exact have in the accurate to write later than an electeris demoter.

MONKEY AND COCONUTS. There are an infrite number of possible solutions to each postern but the smallost numbers that will wark ass. (A) 16 821 coconuts, (C) 16 820 coconus. B(I) 3 121 exconuts.

Is shown in problem. It is noticities that the second set of the problem of the



CHECK Take the two checkets shown at left, in the fusision and shift them is poetrons at right, parting their respective case alread to make the columns align DO

A polyourn of puzzlements



By Scot Moms

This month we ofter a macaaliary of mind shothers—mostly revolving atound demonstry mist is geometry—and a borus mental exercise on the classic question of digging a hole to Chira.

 BLOCK CUTS: A cube measuring three metass on each side is painted ted all over and then sloed into one inch cubes How many of the smaller cubes and

- (a) red on three sides? (b) red on two sides only (c) red on two sides only?
- \$00 red on no side?



 HEVERED CUBE, That it is proteen was not being simple, and when you have asyned a you will not a that there are (a) heppe as many cubes that are red on two adds as there are cubes red on only even exist and (b) here are agit times as many public puncted on three scients many public puncted on three scients.

We have another cubic that has proposely to oppose characteristics. That is which is puperled red and cut informer inch cubics there are (a) tweet as more cubies with one red odd as fines are cubies with two red sales, and (b) there are cubit three as many cubics with no parts is there are cubics with three particular data. What are the immension of the second

"opposite' cube?

3 CRYF1 in the organization addition problem about the next column all the digits from 0 to 3 are represented by lefters Substitute digits for lefters to make the addition convolution one of them? (If you can you should have initial difficulty on includg the other it has the same sum.) the one.



4 CRWP2 Again in the problem below, there are ten different letters representing on different digits. There is only and consol solution. What is if?



5 COMPUPIELE Needo Hadver a computer freek of cur accruatmento overs streetel computers. All bait two of them are Apples, all bui two of them are Commodicitie and all bui two of them are EMs. How many computers obes cur therei Hacker over?

6 ANTIPODES Pass Eckler, editor of Nord Nord Nays, eccentry, ser Lus an indestituing quastant based on the gaographical issearch. As you make them plote to place during your file, including values to fangen coupling walks to fangen based point. The point fascod ogus arripodal point. The point fascod cosply through the carrier of the abit host reaching side (the globe).

What fraction of the time would you sity, is your antipodial trace on water and what fraction of the time is it on land?

Note people contributed with this problem allow for the fact this about two thirds of the gibbe is overall with water. So they answer that these entropolisit pairs water but on water anywhere from 65 to 90 percent of the timo. This truth of the mobile is that face maps American's the answer is likely to be close to 100 percent!

The reason for this is the axhemoly

evenues in device on the result of and well of the results prevent of the contrantal Links of the results may and the contrantal Links of the results contrast of the contrast of the the the Contrast of the contrast of the the Contrast of the contrast of the Neural Links and the the the Contrast Contrast of the contrast of the Neural Links and the the Neural Links and Neural Links

Interestingly the Howesen elends are boling tend-enforced in respond into Bolewaria mast of Alaska however meas into water oxcept for a respon revel front Barrow that is opposite part of Antarchos

Have you talen a top to bouth American' so your antipotal point might have dived off Bogota Guise Lima, and much of Chile and Argentina are opposte Chimi Sumative, and relephotma lands

A vest to Azatralia does no good whotever The entire continent needly fins info the Atastic Ocean, with Panh meang Bermuda by only a few miles

This chances are very first it transfore that at no time during your life could you have dug a hole through the center of the earth and struck land on the other ada

7 LOCKING BACK. How far from the serith would you have to be to see one third of the planet a surface?



In INNOVALIGNEDIA GALACTICA This poblam concents an extremely length number, but the question is an extremely length form another galaxy wants to take home a loss of the Conceptuspeedia Relatives but his appointer of metal and encode the home in angle ber of metal and encode the home is angle ber of metal and encode the offset encodes on a with one possibility the Encodes on a with one possibility.

Incode/add/Here is he second and the the here that of the other add here and here the here that of the other add here add here day turbed is such the test of here day turbed is such the test of here the test of the other add here add here the here add here the here add concerned add to the add here add concerned add to the part number to concerned add to the add here add concerned here add to a the test of the add here add here add here add concerned here add to the bat here add particular the here add here add here add the concerned here add to the bat here add particular the here add here add here add the here add here a

"Whan I get home. The leave one of our computers measure the root exactly computer the fraction alb, and print out a copy of your entire executioneda."

Te in really possible to represent thousands of pages of antering by making a longle mark? Is there anything (histelically wrong with Dr. Gryckis basis premise? Could it swar work in practice?

THE MONKEY AND THE COCONUTS.

Soveral reactions have only us versions of the classic purchase in the last two marks These are three variators fast sound almost also but yield classet answers. We ask you to study versions A. B, and C. ballow, and Da two parts test items according and Da two parts test items according to which will give the highest this neorhighest and the sovere answers Than 16 98 00% Dirade pants work out the three markets.

A five salots are showneoked on a depert stand. They quickly observate the the only other whebitant of the salard is morely and that the only back a poporate They set about collecting as many coop rute as they can and put them all in a pile By rightfail they are too tred to divide up the harvest, so they agree to go to eleap and divey up the rule the next morning

Lating the right one satural assesses subproxicits that the driven impair to the obtemporation that the driven impairs that and these and role wait unit moving the dwides the occords into two plas and finds that there is one occord in the over which the grave to the indexity the hales one of the five plass then patisitie rest of the risk lisek isogenitier and return to alsoo.

About an hour winn a second series events with the same supportions and data the alems thing. The datagety the coortist is this up of the later of the which he laters to the monkey. This has been able and the thinks in the shing and goes been also all the consets of the monkey. This has been also all the consets of the pair of the one with of the consets in the pair of the giving the motist and a been monkey and the either to alless.

When the ballos available the next incents, they all nobser that the council pairs as smaller than 6 was the right below, but since each men is as guilty as the schore in one away anything. They divide the p60—bit the auth tens—and again these is one left over for the monion.

Guidelion How many coconuls were in the original pie?

B. The second version is the same as the first except that when the final dwappr is made the next marring. The five pills cases out even and there is no extra cocorul to give to the marker.

C in this version each man these that the occurs is dwelle every and each man takes his 161, share the markey takes one from the remaining pile in the maning the eacher tendes every the weaps leaving more for the monitory. (In version A the monitory gets six concurss in versions B and C he path only line is an each of the monitory gets six concurss.

This pactile caused optice a commotion when it appeared in the October 9: 1566, Saturdig-Kenning Abal se part of a short story. "Cocoruls," by Ben Arras Wilhams In the slory, a building contractor poses the collotm to a competition who path as



procecupad with it that he lengets to but on in large contract. Writems is puzzle was version B, in which the trial division control out to five acual shares.

Where ended his sony without answer rig the coconstruct quantum it is need first provide 2000 foreign cannot his the Sharuday borning front offices the week atter Coconstruct approval. Georgie hervice Corner the editories chief, and Whiams the Sharving docested telegoment non the Coch of Miss How Weary Goldeum Heat.

The problem is one of a clear pailed Dophantop puzzles after the Oriok interferingiour Dipchanue, who was the first to analyze algoinse problems that cell for solutions in relacion unitability. And the Caconats all analysis the Monkey and the Caconats all analysis the mask worked on and logo offer solved to all such cuzzles.

CHECKEHBOWRD The plazar may assem to prote an impossible task turk you can crack if with part free right insoft. Take the checkens— and crack all the shows and a set starting them as shown above, in a 4 × 4 shows an exclose sitemating in checkenboard fraction if you don't have indexions percent with do with the "head and talf" action substatung for the two different colors.

The posterin a low exercise the dreaders with a 4 × 4 square to that dark charm to sait one optim—effer all red or all black vacuatid deely avoir the problem 5 you were allowed to booth eight almost square, and will a libe 1 guing; you may find ways to don't by backing only so: The problem can be sched, however by laaching ority two checkers in the whole after How words used to ?

Answers are on page 115 DO



By Tarry Runto

An immable field of energy surrounds the bady and extends itself at the fingers and feet during momenis of stress or enklaty ? Subject A new straighted is party His definit, however support heas what is heading decrements, largerly pervicing them. Heading experiment theory to allerge declaration them rounding in the derection, textfaining() originars in maked longs that bland in with his made of the test-Medi.

His public text breathing risk with reschip weby and is they black of weak resci on his footness? Then sackderly his sees hersendeng access tha incom hom han. Beach issaming a teachrist, while choice and its (paucuby) feeling givery bit as call of place and no is. Ance teals weaking hint! Ehe singles weakly thish troades risk in throad singles weakly. Thish troades risk in throad

He recks up the dillok and begins to make his way in her direction. The noise level drops of somehow— he crowel knowl The take cutotatel are about to share a singularity incoment.

He quackens has snow the two works of assumed the when init to both more additional logarithm costing them init to both more additional preventing charter to the source when the preventing charter that and the source the source the both the device source to both the device the source to both the device the source to both the device the source to both the the device the source to both the the the device the source to both the the the source the source to both the the the top the source to both the the the top the source to both the the top the source to both the the top the source top the the the top the top the source top the the top the top the top the source top the top the top the top the source top the top the top the top the top the source top the top

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In many cases the interfedibutes minor the classes exhibiting classified by Gall Jung claning his brief, unterfaided "costs" book" period denergi afficit his reported many of the histories of the minor Petidut, in france of the Addresin power tartassies increment for Search and Search

These are existe of the more correction where of the II' west streamer-coopsistality field

INVERSE CLOWN SHOES

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Konsally, this intraction is most likely to coolur when a subject unalregist the metric lines of unancipation in subject and speet to be the own two likel, having this times and knock mig over variable antipation and family halloams — all precisity the increational right to appear prejective constraints.

When this force estends to infinity a man sensus condition occurs namely

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Descript Fingens is an wommen of the energy lead with a dwg portugate better. The hald extends answer the heart, creating an every not with only four digits instead of leas. The autualing good goves can asses you to kindle over a glass of wom 44 a restaurant or easiliaritizity. This someonesh nose in public with a totally someonesh and packas.

Science, help enty just brogun to probe the mysterias of this answing energy, but many believe that conditiones to the E-went trecey will ena day explain phenomena that have battled scientists for certaines.

In they future the Exception of the solution consist Forces, galling styles. Warren Beetz is renormable (and whole understreved) based projectes, and whole understreved) manad based damages instead of kolong from metroleosty while staytre an the ground and footsy defensions?

In the endancement, is guide leavy them the Funct Inverse probability that will conclude is make you look stupped at parties for years to come. One can only hepe that excreptly we can harmsen a semalang powers for this good of marken or before yet, to pay zerole president of con domainous requirements eakerman at parties GO

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