SPECIAL QUIZ: BOOST YOUR MENTAL POWERS!

EXPLAINING THE COSMOS:

THE RENEGADE MATHEMATICS OF KURT GÖDEL (DECEASED)

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CELEBRITY DNA AND THE AMAZING GENE MACHINES

APRI 1992



INCREASE YOUR INTUITION: EXCLUSIVE EXERCISE/QUIZ INSIDE



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PRESIDENT & C.O.O. KATHY KEETON EDITOR KEITH FIGHTELL GRAPH CS DIRECTOR FRAME DEVINO MANAGINE EDITOR CAPOLINE DARK ART DIRECTOR DWATE FLINEHUM

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FIRST WORD

"DEATH—THE UNDISCOVERID COUNTRY" What is needed to give death its proper place in life?

By Mary Catherine Bateson

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FORUM

READ ANY GOOD SCIENCE BOOKS LATELY? Here are more good books about science and all of its flavors

By Keith Ferrell

Scence literacy we hear daily is on the decline. Incrically, the iterature of science is on the upewing

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A bis years app, Tendry Forre published Converged Arge in the Aldy Way, a thought if throny of cosmool's relation to and anderback. The Minds Sily (Universihouse, The Minds Sily (Universihouse) that relation, showing too or brane and hought processes all hierameters relieved of the workings of the university. The book is with year well as profound and, also early through the second and, also early through the second and the second and also early the second and the second

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DYNERIGING AND MICROSOFTING

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COMMUNIC/ATIONS

READERS' WRITES

Disposing of waste-natural and nuclear, saluting the Soviets, and interpreting the stars

How Now

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Olympia WA

Space Will Never Be the Same

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> Dusten Gelorath Skets II

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Why this space of assistance of assistance of the sering to the other supervise? In 151 Things that Musi Introe Acoust Science? (densary 1982): tien 4 states that "Ariskage is not inco rever has been to science." Microarciagy is subject to the new will of Norther National and psycholtage to the fore will of human nature Theat here sciencible rely on the law of the folder human states and psycholtage to the design states and psycholtage to the design states and psycholtage to the science and promotive of the folder human states and periods and states and states and periods and the science field income science. When the first seer found and recorded thousands of years ago, the last seer hids, and agreas with today but what the first seerlist of the rirectenth certury found and recorded, the last scientist of today leads and firsts away."

> Beverly Ramos Patisturg, CA

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> Crista J Book Nucleer Peckaging, Inc Caristiau, NM

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Oakland CA CO

FUNDS

PERSONAL FINANCIAL-MANAGEMENT SOFTWARE Putting sophisticated analytical and speculative tools in your hands

By Patric Helmaan



The optim edition of Andrew Tobies's Hanage Your Monay further extends the prograw's ability to internet electronically acth founcal institutions Naybe its the increase in computer power that has accompaned docrease in price. Naybe its the recession Maybe it's pute that Whatever the reason, more and more people I know are using their personal computers as increay-management bods.

It used to be a give and not all barrancy energy by Castrophysics book manager. In the servic days of personal cancer on space-the elike canned a taxtrophysical castrophysics of the service days of the service of the service days of the service metry growth at varying instant regimenting of the service days and performed without reach more days regimenting and any per trackophysical panel and paper trackophysical panel and paper trackophysical panel and paper tracktioned without paper tracktio

Well, PCs are a tor less costly and a lot more capable today The capabilities of frenctsi-plenning and monay-interlagament software have increased diamatcally as well. The best programs can, noted balance year checkbook but they can also generate highth interlases where

Consider the lakest version (num-

bit of 01 Arbites inbas's Mengy mg. Toor Money (MECA Software). Two used the program for years, to my banetic, and two beneffect as well from to growth over that stame parted. Tobset's software that serveral things going for a not isseet Andy Tobset's hmreeff

For one may hear in a real hrances what, not a program to basis boundation appears and the second second naturations are clear and easy to read, there are conserved flashor of wit and elegance, and exsysting is fallowed to the average period, not compare weards period, not compare weards

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Thus in Managing Hour Money, your checking accounts, searings accounts, credit cards mortgages investments, and debt sil are Infeed, onabiling you to dance complex and liborough portraits of your table worth—or lack theyred. Couple the Integree with soptratopled analytical tools and what if generators, throw in electronic notepads and calculators, and you have a powerful and multicatable tool. Some thos box

None of these leatures to be there are all has unsued loady there are quite a low good hostnan programs available, mobaling Caucken by Initii and NeshKismterant Vileahibauter horn. Realby Todhinologous Even mighty Money roooth has weighted in white proputation called, simply Money here are quited a low tax propation and a low tax propaant owner more shock maniatiportfain menoarees.

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Fyou haven'llocked at personit francative management achieves in a few years, you've missed a revolution. If you heven t considmed using a personal computer to assist you in managing analyang and improving your timeceal patwa, you may be missing the boat DO

WHEELS

PICK-'EM-UP TRUCKS

They're not just for cowboys, carpenters, and good of boys

By Jeffrey Zygmont

we when shifts and acing, tenne Tumer plays sound the sound of the sound sound sound the sound sound sound the sound working the sound sound the sound sound the sound sound the sound sound a monther we divertice as and a monther we give. Utdane, gented a for any timber souper sound sound of a website the life decades encodent of these sound acceptance of a website the life decades encodsect of Assessment sound of

There used to be a sigms if you were seen in a tuck " says Ed Schoerer, assistant segment man legar for Chevy puckups. "Now you find them in cheverage of afficient nechtbathands."

Yet even with worker scores have, the public plantame a manevation, the public plantame a manevation of the public plantame that previous heat public and open tables, perhaps with an opcancy With heat that backs and open tables, perhaps with an opcan be insided on the run. Cargo can be insided on the run. Cargo can have a score perhaps have a formation and the them with an even the earth perhaps have a There's simply no other way to use the space. Thus a pickup is the ulimate personal cor, made for its driver and the ton or so of possessions the owner can heap in the back.

No wonder then that full-scool pickups—sold by Fond Dodge, and GMIs Chevrelet and GMC divisions—are made only in America, where solt-follatione terrains a printipy virtue. About 1.75 million Americans bought pickups in 1991. In better years, the indusby selfu 2 million, about 15 percent of the lott-whicke market

It signifies the rugged indivialisen of all memicans," asystemicans, "asystemicans, "asystemicans, and the significant of the significant sector of the significant sector of the terms welder from Dealcom Welignin. Orich has second a pickles, since the begins throng 35 years ago. Hou part second a pickles, and the 250 Ford for a smaller 1980 Ford Counter proper, hopping between gas while the tecks that a pit "Shufe much more independent in a pickup than you ever could be in the case."

Full-ested pickups, the pickups of lone, are and the most popular, accounting for about 80 parcent of itsucks sold. But they're grow



ing less non-sentative of U.S. trackets expecially as tracks of the term here edges to let more people into the fold. This data schem between cars and tracks is not as great as it used to be," says Chel Kuzentiko, chel markating shalogist for Fold, which has been meting peckage to 75 vers

The Change begin in service when compare topic apparent the compare topic apparent topics of the topic apparent topics of the topic apparent topics of the topic apparent topic topic topic apparent topic topic topic apparent topic topi

Note than anything the compacts bring tokeyors in the polop hatering bological anythin of the ahedy cheep. Is lot of young people boy ham, says market amlyst Dukas. About \$10,000 bays a new Ford Ranger with a cusson interior air conditioning alternite when the cusson interior and conditional and ext menu advection.

But even if compact polygos seart out as or substitutes, they seart humanity to list the rorrad in their owners. Consider Liz Longsach a writer and editor hung on Bacanit's Nerth Shere. She bought a 1986 Chevy S-10 after that TB&L factors even out. The lister by houling her mountain this. T like the ordependence of loading up my like and moving a strates," liste page.

"You can go wherever you wont, be self-sufficient sleep in the back if you want to "OO"

"Pickup centers are a diferret hype of person," says Text Dukes, a market snotyst at JD. Poser & Anacolites. "They gue there trucks names. They test bern file a part of the mark of the says."

POLITICAL SCIENCE

WHOSE LIFE IS THIS, ANYHOW? Science, religion, and RU 486

By Tam Dworetzky

Hen iscence bangs real-missic holps, heny real-missic view of the athenere long ancoult and your find your knownings supposed by Indeo the the supposed by Indeo will would, fishered linear holps will would, fishered linear holps will would, fishered linear holps the athener hold no switch where doctmes prohoting chall larger soit deber hold no switch where doctmes prohoting chall larger soit deber hold no switch where doctmes prohoting chall larger soit deber hold no switch mouth. We emugglied mentranse, and in new lechnologies

Approximating at abortion offices, perhaps right-to-lifers obuild offer to



raise unborn children or lead the fight for schooling and support for unteel mothers thinking take hold and finally prosper. You eventually find yourself stagnating in the intellectual and economic—backwaters.

Keborg this inmits, here we to work you have digite to och at the hereb-care cost crass it is similar or a leager think of the GRP, and hard's back or. To orise of the IRPA and hard's back or. To orise of the IRPA good a leager think to skotal matching the skotal matching the word in monty-the religious anaboticinstawe start a good chance to load that Back dia cost of the IRPA good chance to load that Back it is costed in growtheir the to outprise my opinion loads this costed in growtheir memory. its mine, and you may disagree with it—that is American.

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Macasee: that is to be accelled 146 meant solv, nopreparter warms in the Unced States suffering from a wark of States suffering from a wark of the may well do the year May? I we may well do the year May? Well well and the cases abortion, can the same here. These drugs cause all know of charges on body chemistry. Yanguai faiegy meaneral broads that the about may offer powerful that about may offer powerful that about may offer powerful that be for cincers such as breads cancer (now fitting suchers: power bottoms among warms), and Casempt takens just to zero add to life?

The problem with religion, for no, is that taking it too religious ly provides all the answers—and the only answers. That's not just intolerance, it's also instronal, bed science.

Then there are the social and defaulties are the social and the social sector of the social and 466. A trappic-scale study of the 466. A trappic-scale study of the 466. A trappic-scale study of the social sectors and the trappic scale where to Character, not U.S. the social sectors are the social sectors and the social sectors are the poor social sectors and the social sectors are the poor social sectors and the social sectors are social of the social sectors are social of the social sectors are social of the social sectors are the social of the social is write the poor social sectors are the poor social sectors are social of the social of the

What is also and about the where the second second

SPACE

ONE FOR ALL AND ALL FOR ONE Are the world's space powers ready to go to Mars-together?

By John Elder

A version recently lad out a memory appacement on put a memory appacement on the large lag and the large large large large large counties who complete the pace counties who complete large large counties who complete the large counties who complete counties counti

Europaid in the rind 1980b, the university convertes in a different outry systh summer for all law seeks. It intervasion its diverse students—typically averagesca parterepanak. Isavyes reasers uset students—or graduate twell space existed counsis and are used students—or graduate twell space existed counsis and signs form a challenging project. No planning an eterestorial masion to Mers

For the students, such an expedition reset questions this the space spencies probably hadn't had to consider. To begin with, not all of the students agresid that going to Mars was worthwhile. And others, such as terzones notable singlese Damain Haute wondered why then counties should participate

That were cutile a stacker for the American IS Society students who thought everybody belowed, "regis testery prayed codrector Wandell Mendell of the NGAS Jetropon Sgobe Center in Houtton Tessis "And I wise a loarning experience for Third World people who had never thought about the opplation as having a meaning for them and their counting."

Deciding on a spaceanth design provided the mayer technical challenge. The tria should be as abort as possible to ensume the actionate exposure to indistant And support the altifects of longtant exposure to low gravity are still unknown, the students wanted there associated to the we atthcial gravity, created by contrioutly spirring the spacecraft But the fastest spacecraft de-

aut the Indext spacedors of egg coulding to enamine gave by coulding to enamine gave by coulding to enamine the space of the space of the space of the space particle back and shared so the students compared with the solution of the space of the space of the space of the space of the the space of the space to a state of the space of the space to a state of the space of the space to a state of the space of

The project thisly reached the task table bottom. I no: How right will is cost? The shadnets ementatifthe task cost of their misgon at roughly \$250 billion. However, they could only project same \$150 billion in funding, a thatfail hey haped could be remedied by changes in the cably will y Watam space agarees cometh dis husenes.

Who will take charge of he may serv? The students had some innovative ideas about that. They created a group called the internization composed of national space signorous the NASA, and international intergovernmental bodies. Ne the European Space Againey to eversee the mission Rather than collecting fundle from members to this the distributed among them as payment for services. (SEO will temply context tasks out to the members base able to complete them. Institution extern-

meeting the second algorithm for the mean extended beyond the toolnical and political. Carboe been been can be been too the hard second to find thereal pooling up when the MAI Carboade was been pool to find thereal pooling up when the MAI Carboade was been plot of both thereal too the second the second the second the second the mean point the second the mean point the second the pertent select methods.

A strock kieftstocold have noduodd the Mars meson to an unsatisfying game of links protocol fact exceptors had worked too hard appecially at the stopper task of cooperating despits an energy discusses. It may be the strong discusses in they be the meson is, that justifies one particmeters is, that justifies one particmeters is, that justifies one partiparts description of the mission as "in bunch we dow for the wolace of the traines spit". DO

Before the /8U students could choose a way to get to Bars, they bud to decide if they even wanted to ge.





CONTINUUM

THE DUTY OF GENIUS AND THE LIMITS OF SCIENCE: Killer asteroids first the dinosaura, now Mars' atmosphere, plus, office workers see the (nonfluorescent) light

What did John Keets, Somcost Masgiven, William Carlas Wiharra, and Gantuda San have n common beades a cettain way with acritic? They also anexed acritic and halso acress scientific umbfores and if Stein news actially received her diagnoe, well, i guess a doctorate is a doctorate in a doctata

At first glance, science and poetry may seem like an onymoron. The image of stern while-coated scientists lever-

offly coerding back holes of there could to define the perfect words from there will be used and count it will now somewhat employees the source and count it will now somewhat employees those anothers: exercise a the they are long suppressed where of coerty out of the bank to now appressed where of coerty out of the bank to note again (as they define an employee) and hore to point of a long suppressed where the postar when once again (as they define an employee).

meaning of science "

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The University of Attents Cook tail Research Fund The installing of science to solve besite human problems by scientific "Reserved" The Erelie to preserve his biblinged for mid 35 occms to terms with

Holmes-look and you will

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According to Jonathen Post, poel and announce to gener. "Posity often works within a rigid structure to which respection makes the difference between the musdam and the beachful. There is an adottbactant in soence that drives you to the right anneer just as a certain elegance enginese syste to choose one work owe another in back aportion of the universe I as sweeted to off to you?

William Garlos Williams arguebly con of the best poets America well protocols was peringia the mack famous sometrolipaet. An extransfe successful clotols: he often relef on the security and pain of berth, the offening of the poems. The basedy and pain of berth, the offening of the run of the water blocks with the physical transferiors to also beyond the facts that the practice relates and understand an transfer birth the practice relates and

Batrono between reasons and reagonation a particupative lawy Wat causes a socramit to take that loop of faith that proper him pass the realigence of his peres and dises them to make a descovery or the same rations will that compare him to cause positry. Without insulant and be catality to use that and structures as well as magnetication to be cat and structures as well as magnettications and the same structure and the same ratio of the same structure and the same ratio. The same structure and the same structure and the beside structure of the same structure and the same structure and

CONTINU

BETTER VISION

Some terminal cocasternally stroke marking part to failave the part cased by ther filose Now a University of the Weel Indee pharmacology perfector has discovered another medical benefit of Carvabie safes

Morely West test of beneed survaces television to boost the using merijume local television television television meritary test and television television regit values that canadical terrariagn nerves visits and const needs without combases or rights. But chly uffer an oscension rightmer withing the visit to copter withing the visit to copter withing to visit a copter withing to run-school method become commond that there are needed to the become commond that there are to be ob-

The nocturnal expedition sent the professor back to Fis laborshoy at the Krgaton, Jenar So, at Narak (Song Song Song Song et al. 1997) of the starguant - Adda of other starguant - Adda parthalmologist Abort Lock hard eventually develop manufactor estact that Water claims lack to a "significant impovement in night visual."

Canador dato sucketales glacoma symptomo by reducing fuid pressure in the cystoal West says, back ho's unsure whother the same effect cances the improved right vision. Because Garassol limit even millips alkes limiting this angle could be used satisfy in a web veryet of right lime structors, he adds However Canado probes

GETTING KIDS AND SCIENCE TOGETHER

"Constay Takes You Derwahters"—Takts the Science and Technology Week (NSTW), to be ocaburated free houses by the Nacaral Science Foundation NSTW premains accence anamesis by playing upon whom that sciences by playing upon whom that sciences in parvises and even Tan.

Demonstrations and activtics oponome by local communities play a large part Last year for example thereas pulse for example theore, pulse logener for a saterior networker hart moving local buaressay. Iterates, parks, motical centers and the sox while Const University in those hear took, motical area stadems to hards also, meet professors.

"Local observances of National Science and Techrology Week Bustation our propriam beat," says Mary Bullock, the project's coordinator

This year's HSTW with concentration or points one arrow paint and the approximation prime paint and the approximation than the point of the approximation of the Bernelise A evaluation of the approximation and the approximation of the approximation and the approximation of the approximation and the approximation of the approximation bernelise and study to Mexemid applied in a physical.

THE ANCIENT SUNG WAS, IN EFFECT, A PREHISTORIC PISTOL, ENABLING PRIWITIVE HUNTERS TO THROW A STONE AS FAST AS 60 METERS A SECOND

schools, and community centers are already planning activities. For more information on National Science and Technology Wask control your local science National Science Foundator, NSTW, Room 527, Washingtins, D.C. 20250.—Beth Azar

"I don't know if there are men on the moon but if there are, they must be using Earth we ther huratic asylum " --George Bernard Shaw



Janapan kolemen aboute ther existence and vision to hermonic



Paycho Jolan Why do some psychologi Tike Charliel Hartson pb., r the exists they have?

VOICES FROM

Psychotox seeple who bear took white makes which is hear whose whose whose set down these whoses, and a set of the set of the set which are a set of the constraints of the set of the set of the set of the set of the heart shared is a down who was argonin 1880 from the federal heart is a down which a set of the heart set of the heart set of the set of

Protestinary results following a pick study with 51 subjects, show that the constrict of the command bears no relationship to comply at the same rule, comply at the same rule, whether the study sturn on the TV or to go all someone," during stays. Those who deey commands do so unquestionmayly and whicus heethics: One section, for example, heard a voces telling her to jump out the window. She del so, ngrif in front of her wayse inclusionary site survived to setty the story of heremone

Periodicts are more likely to comply which they, matter whose wood is built of the source of the product raik of damgenous characteristics and the source of product raik of damgenous the source of the source of the product raik of damgenous the complete of the source of the product are source of the source of

BITING BACK AT MOSQUITOES

Wreatly so one likes moculates, there possy the oregues that base stored post-light and bas aryone looksh enough to stop outside to most people will be delighted to laken that two maiscular bologets at Memphe Step Unensch two this open a new way to kill the tide buggers thid does it reque efter a fly auster of look scenes

Banky Marphy and Edward Stavens, Jr. spiked garlas from a common soll bacterum, Resilius truthgenus: mis be gaitrict material of a bise groon diges on which mocrailso lancer freed. The perietically aband argae produces a train fact to mocraulice are black fee but hierrisos to other organisms.

"The most common approach to matquito control these days is to spray maighten, which can cause all kinds of health problems to people." Stevens says "This is a way to achieve the same seadt without using taxe chemicals"

So ise, this seprecent has been taxed only on the Debrimozouto which instrumits espherical and the dealess. Murphy and Sovern event to conduct further least to see which of the more than 300 known species of mecpute wit blue green signs and which of the The accession with them. The accession with them the isotherises as particularly sager to casement the isotherises as "percess against the manacessing Acquired isotherises." ISAAC NEWTON'S ONLY RECORDED UITERANCE WHE HE WAS A MEMBER OF PARIJAMENT WAS A REQUEST TO OFEN THE WINDOW

THE SEVERED FINGERTPS OF A YOUNG CHED CAN REGENERATE IN ABOUT 11 WEEKS

FUES HAVE 1,500 TASTE BLDS—ALL LOCATED ON THEIR FEET

If successful, the new marguido-control lacitingue could affect people sil over the globo-even the loks back home in Memphis

There are 48 species of mosquio right here in Swithy County ' Servins says "Years ago, yellow lever felled off sa many people that the oby almost lost is charter."

- Steve Nachi



This way to a mosquito s what organs is through its storeach



CONTINUUM

struck at Nigher velocities."

-Patricia Barnes-Svampy

that tasted more like require milk when reconstituted

tools to prove it." sava peopram manager Robert D Arrest Arremath suspect the

A DOG SPORTS 17 MUSCIES IN EACH FAR WHICH CAN BE LISED TO RAISE AND OWER THE FAR OR SWIVELD.

EVERY FOUR SECONDS, SOMFONE IS INTERED IN AN ACCIDENT IN THE LINITED STATES, EVERY SIX MINE/TES, THE ACCEPENT IS FATAL

A SHRIMP'S HEART IS IN ITS HEAD

be a scientis's best friend Colfornia, wanted to make

manufacture conscient skim mik by heating liquid skim mik to drive off the woor The EPH apentists instead They fillered out the



Also, the accentate say. lectro acid, which should others those allegging to mills

EPR his begun commerout tests of the freezero \$100,000 yearly on energy bills -- Grazon Nobbe

but his eyes should survey

-George Santeward

AWork of Art Fit for the Gods!

The most magnificent chess set ever. Original sculptures meticulously handcrafted in percelain and accented with 24 karat gold.

It's treathtaking, And/sty of incompanying alogance, lespirad by the gods of ancient Groece and Panes Occaried by worldrescenced sculpter Sharrt Mark Felfensan Handorzhoft al part white knope and dorsnaft black percentais, with each supphis sculpture enhanced by 26 kated odd blaches.

The places are patient on an imported outpan-decayang playing based et petatet bounded mathie, a special blead of powdered mathie and estins. Addiag majesty and splandac to any home or affice.

THE CHESO SET OF THE GODS. A masterwark of benady and has craftsmasthy, with GX7/30 lare each place, payable as a meetby basis. The checkbord with storage care is set at a to additional charge. It's your channel to challenge the parts, Exalisatively from the franklin Mint.

FINE PORCELAIN, ACCENTED WITH 24 KARAT GOLD.

The solicited bonded markle and bankwood-fromed secondored to shows he smalles from its network of 211 a 212

At left, JUPITER and 25125 we alightly received actual rack



The Franklin Ment

I pred lego lick Moleck sciel I will receen two imported playing parcel in wwy other month, but will be blind for just one proof the most S2550° solt, begitning pres to my treat shopmant. The customdospred imported shopmant. The customdospred imported shopmant in thoper care is more at the additional (who).

> "Yaw ap state arise for and \$7.57 per plana parts dy physics and herefing

MANSAISS	REPARCING.
	NET 10
PT.	

BUTTER ADDRESS FOLSY

If you wish to estam any Franklin Med prothese you may do so within 38-days of pour nosign of thet purchase for inglecement, and to indicat.



CONTINUUM

KEEPING AN EYE ON TIRED METAL

A tray five-logged device the scree of a metchbook could be the elasive early warring system long sought by shockned registered warling a foobroof way to detect the metal fatigue that processe conserveptive faulue is bridges, oil rigs and need excrut

sought specific percentage structures listigue III wy to be structure section to the structure reaches example, 40 percent begue IIIs, he comprovides, Bernstere o a continuous series of ings that a microsoc

The device, called a talgue tase, consists of five parallel less attached to a

STROKING A CAT'S FUR GENERATES ELECTRICITY, ABOUT 9,200,000 STROKES WOULD PRODUCE ENOUGH POWER TO LIGHT A 75-WRIT UGHT BUILS FOR DIACTLY ONE MINUTE

fai mak frame Each lag bears a series of insist and notches designed to mmot the condition of the install dructure to which it's astached with exposy metric Much as an electrical fusio case out where its circuit necesses too much curvet, the legs on the mechanical fusio attap, one by onea of the curvitative stress history on the structure it markets exercised center before it becomes a dancerous macroorack

levels, according to Robert

descend to have a different

The fuses cost shoul \$400 each and shout 200 would be used in a highway bridge They require no electropy and could be integrated with and could be integrated with the perspective of the state of the perspective says.

"The concept is fundamentistly acceptable ' says Michael Cassaro: a professor of chell encineering at the

Experts believe that metal tatigue caused the Loselage of this Albha Arlines jet to rip of chaon firsts in 1988



MATH MEMORY

It you let italih behind in hyn schold chances alle you'ra nit much gool at it today Brit if you hak calculus or more advanced math courses damg oollege, you can lake your mith chops intact for up to 50 yeas even if you randy ute math in saud calay Tile, according to a study conducted at Cho Wesiegan University in Destevers. Cho

Rehrick and Lynda K. Hall

extremented high-echool iserel algebra or genoraty, teetra h. SNA valuralems, of enhance ware houghly organize the second second algebra and generaty indices the head of the college rend control and college rend or to take the algebra and generaty of generation in the algebra last, while takes which bed algebra the algebra last, while takes which bed alge control on the algebra last, while takes which bed algebra the algebra last, while takes which bed algebra takes the algebra last, while takes the algebra last, while takes the algebra last, organized algebra to control algebra takes to control to some 20 plants, takes good all highly respectible

Bannick finds the reacts gate upcating Most of as, star as, do not sive college math counter. The solucitanial establishment has paid fills attention to fer "Bisappeaang knowledge" phenomenon, he contends "Thi absorbately appealing" he asiys. We spand all the money trying to impart iscowledge and we've never tolekied at how long it. asts "---Bat Lavren

reasonably wat * --George Notibe

"Develop your eccentricities while you're young That way: when you are old, people wor? think you're going gaps ' ---David Oatw.

University of Louisville in Kentucity who has consulted for the government on shurdward deserties. T would be concerned about the specifies of celloration, but the dance shauld work.

CONTINUUM

GOOD DAY

Like some chearful sunlight in your murky office cubrick? Sure you would There's just one problem You don't st near a window

Now the window can come to you. Developed by researches in Californa, helographic althacture structure technology bands name in fight, bounces it off a dwagnated spot on the celling, and diffuses it into the rooms dark areas.

The settindagy inclues compared while glace with a substance the reacts with light much as timedimensional hobigaries do according to hobigaries do according to hobigaries do according to hobigaries of granter Rehad lain-Freese, a project reanager for the Advanced Breatment and posterh Group in Davis hobigaries window works beat in chiest sun-light, orthrolid with a budiene that



Holographic window inclinelogy work make your office as survey and approximate Grand Central Station. Itsn's will be the stress up

has south, southeast,

The later beams up a light wave interference pulient on a pholographic emusion that is used to make a master form to replicate that window costing a plassic that can also be supported between sheets of glass. The microsotype ines on the costing redirect incoming light much the same way a Venctan blind closs when its stats are

Just how the costing

relacts surging to the same spat on the celling, writer or summer is a closely guarded secret. Prototype tecting will begin box the THE MOST REMOTE OBJECT VISIBLE TO THE HUMAN EYE IS THE ANDROWEDA GALAXY, AUQUT 2:2 MILION UGHT-YEARS AWAY

UNTIL A FREAK STORM IN 1971, NOT A SINGLE DROP OF RAIN HAD FALLEN ON CHLE'S ATACAMA DESERT IN 400 YEARS

year, lan-Froze says, and the specially coated windows could be available in large multistory buildings by 1894. —Gaorge Notibe

A

More itself than bessure is allegang with the felles

YO HO HO AND A BARREL OF OIL

Old shipwrocks have seen harming the Poollo Northwas coast all the restations have taken more termful farms then morening white spectras rating cherrs, and ther wolfin has been the environment.

The Environmental Presetion Agency (EPA) has clead ben approved and the bottom of Washington Satistis Puper Bound as peternally hazardous be cause they held thousands of galenes of had and otherhousa. One of them an of tarrices are in 1964 with - Ince than 72,000 galans or whythaoxygradic pothole um. The ERI, has elso shown concern about whicks elsowhere in the area, such as the barge that space in 1984 with 4,800 barrets of a highly toxo substance called means in c

When small of slicke recently washed autons near Part Townsond Wash ington, the EPA discovered that a converted Navy finghter that servic in 1960 was responsible—High wastes or winds flushed publicitum windows out of the winds.

The EPA generally leaves a wreck alone unless It poses an immediate problem, hoping that as the strips start collapsing on thamselver, sectiment with returnalty cover their carpo

When obtaining with a showned hearty 30 years old where structural meighty is univown, it could be more make through to always the cargo than pust letting it leads out slowly," says this Ryles, a marke bologist of the EPAs Office of Coseau Weters in Sectlo.

How many shipwrecks carry contaminated metersis? "It's hard to say areadly" flytics admits "but here are an awful lot down here "--Contine L. Polock The only difference in today's basic research is in the tools we use.

In the 1600%, Sir Isaac Newton led the scientific revolution with benchlarough discovernes in optics, mathematics and physics using little more than his incredible mind. Today, America is about to provide scientists with a basic research tool that promises to expand our knowledge as never before.

The Superconducing Super Collider (SSC) will propel subatome particles at near the speed of light. Head-on collisions will statute the particles to reveal the constituents of matter. Such hast research will provide scientists at the SSC laboratory with answers to sortie of our gratest questions. And that's only the beginning. Because once we possers this information, the resulting applications for molycine, computers, materials and a host of other technological areas will exceed our wildest dreams.

Obviously, much has changed since Newton's time Yet, the driving forces that have taken us so far still remain the same. Our hunger for knowledge and our meed for basic research.

GENERAL DYNAMICS A Strong Company For A Strong Country

Anticle PORTRAIT OFA PROPHET

By fieldre Sullivan

A scientist neurols the super conscious mind.

Pitotograph By Tom Zimberoff



ompany operates The older of the two. Bill

Farlas, California, He then sits quicky. The other, Charles Num, explains that "expert infortive" and that he, include more prolitable? Num the executives might have about their company.

London-borat Srm7 How notwers each question in

asks the charmon to call him phone. When they speak later that evening, the charmen is shocked by Numr's revelations: One a loreign government, the Within days, an investigation his interlive responses-had For Kaste and Nam, the morning board meeting's bobb, well, such business air

nervices for major Jaconissi nanced services comparies retail organizations, and tood processing concerns. As director, Kautz organizes and absord, serving as a liaison between his staff of outert intuitives-Nerri's in popular demand-and the outside world. Krastr or cost when shake

pirt scholar, part hand holder, though he spends a lot of his lice an interameter.

meeting, and as the ex-VIPs are two impaccably until minutes before the

of San Francisco Bay Area psychism. According to Coast-CAI's in a complete che," Alter all, Name

stz cautions not to get hung up on the method from which intuition flows. It might come in a dream, from a put feeling, as an insight, through trance channeling. A specific mode docan't make the information any less credible.



ton gained through trance channeling To Kautz, howstood. His CAI staff are not Kautz doesn't use the word traditionally been labeled as haven t chosen to exercise

There are a number of differences between hiring a psychics don't understand clealing with," he save They are neither skilled nor nationable." And law

Like many New Age icleas inflation seems easy

down the concept is like tacking a greated pro pursuer's crasp, the animal Kautz save, trwing to grab the expose "creature." He fows "It might come in a might come through what make the information any

and symbols "When doo

their rational skills that's concerned about the rature how it gets here," Kautz

For Breadan O'Banan at the installe of Nosto forms, intuition is 'a welling up into anareness of date from normally perceived data 1 Ac utuitive person. nonrational aspects of gan maintains, however, what in the seventies used channeling and clarvoyart activity intuition

predict the future and many traditional psychics parable



such CAI intuitives. Kautz going to happen to them Kautz area sympathetically. natural events can be predicted, but a human inviolate. We create out own world through the making, both individually

intuitivos into a corporate reting the question. Can invariably comes up "We're Kautz sava "Much of cu the way society is moving mewaments. We recognize the ontical role a person's what's going to happen in the future. We present octores That's the real robins of perchange

With his doop set ever able in a classroom then in a electrical engineering and mathematics, he detes New Age sterectyping with his ultraspentitic background and experience. Before her stuckee, Kautz was a staff accentrati for over 35 years at Research institute (SPI) in Monto Park, California, where he worked with a team of scientists to develop the fest manihame comput-

ACCESSING YOUR INTUITION

According to Bill Routz, or winy human being her take three abilities, West people hough, heren't consociul, childs and use their mattern hilds and use their mattern hilds and use their mattern bed colored process the people dening skills site gath pool dening skills site gath pool dening skills site gath people share the samethysis percent of an advertern they in shape this advertern they and they are the samethysis and bill an different ways and bill an different ways the samethysis and they can do it an different ways the samethysis and they can do it an different ways the samethysis and they can do it an different ways the samethysis and they can do it an different ways the samethysis and they can do it an different ways the samethysis and the samethysis and

When counseling and dense on how to improve her makes sells, Nautz presents a working model of the mind so that students will bether understand the ways in which direct informs from flows. The construction finds in the areas to reason made in the areas to reason made in the areas to reason made in the areas to the second protocol imprimence to the protocol imprimence get, an acquired skill hear successful to speek Sposial Devisioping inflation depends leas on adding new material to your mind than on removing metarial that a already there but no longer reacted

DEEMWWORK One way of stronvingobarcise—house classifiering in the autoconoccuss—d to inflipritel your dreams Like Jung, Khutz saad dharma an a source of influence incovering a motibarcing and here and here subgeter keeping a motibarce house the source is motioned in the symbolic and motio

PALACE OF MEMORIES Most propie can I try to twomember unless they're forced to recail a memory When people longet where they've out the leave or they've out the leave or ass of how insubile informa-

REACH QLT AND TOUCH You've probably picked up the phone and known who is at the other and of the line. Durt walk for those moments haphazardarly. When the phone may, relate and tail youned who is caling the more you do this, the more contrability your notlise capabities.



with the density particular, county of native of the lives annuel helps to -refer the way you processive itselfs and the photom necebolity and the photom necebolity both ways to "the county" having otherwise as the county in the practice of metabolity the participation metabolity of the photom of the otherwise of the photom of the otherwise of the photom of the otherwise of the otherwise of the otherwise and the otherwise of the otherwise of the otherwise the otherwise county of the otherwise of the otherwise the otherwise both the otherwise the otherwise

OBJET TROUVE Take an everyday item like a coffee cup, sstety pri, or computer dak. On a piece of peper, write down a question such as What is the purpose of as What is the purpose of

WHEN DEVELOPING INTUITION, THE GOAL IS TO CREATE WAYS TO ALLOW INFORMATION TO FLOW FROM THE SUPER CONSCIOUS TO THE CONSCIOUS.

someone's mane, they uslaw start-same memory, but usually genes what is been stand in the memory backall the oppensions of the post. Try remembering a gocillic tree is your chethood. Rolwa the day the color of the day the streets whiti poople stact, how they active, how you let Photoco that asstrate day. How people to achicolinium of query and time into which general mitraund you at the mometric actions which dent the fail, a carthern harns a dig barks, arrell the across all heat-ground conferbers noises the wat of *Osma* as the boxe passes your office. This assectes tringswhat was once back ground information lowerd into your conscisus strid Particip the same exercise. It is torpik to see with Kauz and see torpikes bit Nam work well tegethmatic as Kwatz. Before getting multicle probasionally in muture work — m are as its hink studied on the sold for own of the muture work — and well and the sold hard sold and multicle to manifestimating comparises and as the instantiation of the sold and and the films. Num new less on a class the films. Num new less on a 1000 action and n in onthan Calabora name the Corgan border what has a conLike Kastz, he has little regard for New Ace aroon and scoal excess.

¹⁰ Billion resonance experimentation of the second se

ness executives, here and abroad, that kind of talk is a turnoff "

Other GAI expert infuritwise, however, are trance charmels who summon chirth entities required in temporary to summon any transmission of the second second second charmed learners and ectors. "No entity also though mu," Num says "1 contdatament learners qual and the information comes to me."

That Kautz, a former SH eccentst, use uses trance chemisting to access what he calls intuitive information upsets a heat of individuals, from his lass-open-

INTUITION QUOTIENT: A TEST

Construction of the endpoint of the second second second second attract beside about the attract beside about the attraction provides and attraction to installant provides and attraction attraction attraction and attraction attraction attraction in section. Catalorms, while attraction attraction attraction in section. Catalorms, while attraction attraction attraction attraction attraction attraction being attracted attraction were weld attraction attraction

L MAID MATTERS

158 Inus or Hasse stateiments (1–11) tost your koowledge about how intution operates.

 initiation is a relation, rard ability which a religit of persons are able to all one (True or Falce)
 Wante here a second a

pacey for insution (True of Fit(se)

twe, especially around age 4 tor 5 (True or False)

4 The trajer readblocks to devideping your intuitive abiiity size due to accordial behave //True or Extent

5 Initiation is the mental cacity responsible for pay one performance: (True of Fabre)

6 You cannot have others with the information you obtain through intuition. (Itseor Dates) tend to be more states. (This of Falles)

 Priulition and methology which and in fight end indenay what most people would describe as hitking. (Insect Faite)

3 Doctorially makes people ple-buch as prophile-and charmes usually obtain their most ecountie microsfielr most ecountie microsfielr when in a trance or uncumercous state. (Thus or Rise)

10 Many Deople experiance intuition as something physical (Thus or Faire), 11. Alcono: intprofession for of situative information (Thus of Faire)

8. HEART MATTERS Countries 12-18 describes a subtrain in an objective and roly on your still-state. Enter the subtrain work of import in each cercumulation 12. When the described on phone rings conspectable of your inner with a thema do you innor with a thema A. Nexter B. Ratek, C. Storetimed, D. Francesco.

 Do you ever droam shout unitexel events which actually securities A. Never, B. Rotely, C. Sometimes, D. Precaverty.

14 When you need some one offer taiking also they on this telliphone, dread to be eccurate, well down to the most mone dealer. A Nexet B, Ravy L, Some arrest D, Tread-Tity. interd out wan that you via coming water's content & Board your process with 2. News (3 Bar J) (6 San America Bar J) (6 San

Si Heer you shar hough a short strong you want to be a short to be an of the second short and provide the second short and second back and the second short and the second

times D. Pegugoly

d pacele kills out to be accurent? A Never EL Forny, C. Sometmak, D. Perspacely

B. COMPANE 5-9 APAGE Strong two y individual a artigate skibler show that conlister paraticality mats, withcosts and funders are showing to the show the showing matting and the showing show the show the showing show the showing showing the shower in poor list to those of highly water showing.

12 Do you play a muscle/ingournet, in: engage in a sum of white expression? A Meany as a child it Cochlorably C Frequently 20. Are set cutter(t) set-

your work much

scarph, joyachus, euroau alberhattarisis, moretoret, antigesti et nos as her 6 Clearest resis or the scar ferming fearms or considered dearing for an argued laterary 6, Perquertly, B. Senterma. Not aluarity

 Al accé, am you more ch a team player ar a leader A Team player. B Leolate C Dan tenation of beth

No. D. Spend Time above? Vitry empirism is Somevite monotant. G. Not that unportent.

25. Old you have an indeency paymonial, as 'a distink two B' has 35. Doydo wony stout being itse within of a chinet A. Other, 'B. Dossificativ O. Ranky, D. Never 27. How many house in your forme each day 'A. Moufear 5. locks. It. Network 3 and 5. house. C. Batwent 1 and 5. Index. C. Batwent 3

and 3 hours; D. Errechan 5 Tour of news 25. Are you comonable deal-

ing with metaphot or satile? For instance, do you successed on the aristogy sectors of aptitude lease or registry undextand the symbols in a parent 4. You B No.

 Do you aver feel that there just izn't "enough ime in the day?" A Offan, B. Occasionally, C. Flerely, D. Never

30. Any you currently in volved in an intensity reasterm 2 A Yos B N

minded felice scattes to examplical Divisitais who are travel to examplical Divisitais who are travel to the scatter Kautz defines intuition, how he gathers intuitive information, and what he represente—a scattes working in the fealth of the normational-interactive term to provoke outpostly, childram, and at times deraion.

But CAI havin't suffered for covers, Hundreds of people-many of whom rea Japaness—heaply pay CAI intutives to answer questions such as, Where should we allocate our research and cavelegement delare? Prove for ser-

vibis vibiy Piniste connexing assoring cost-5200 Ahr-Sig composite basisnis cost 5000. The yaar, CAI will begin to offer sources in Europe. Co-entian with Metanie Branch. Kautr's frag book, Claiming: The Insteade Consoport, hes been transition in Feach, the Jorman, and Tallian In Sect. the Jorman and Tallian In Sect. The Ontarian work that he's summing CMI Contribution to Faco.

Rastr's intuitive life began very intocardy in the early scientific while working at SRI, Kautz became increasingly interested in the ways human bangs acauth Renarkedge. Where do tideas come from? How do pacie discover screening new or find a solution to a wring profilem? These questions became inseasangly insorted to him as a screently working on computentiated profilem is write a social wrinking determine he write, a social thinkners who over the centuries adchased the wass.

"I was surprised to find out that many bright ideas were not the result of a an of racoust thrising and that scientists who made great breakthroughs usually got their crucial ideas in a flesh,

COMI

INTUITION QUOTIENT: ANSWERS

1 MND MUTTERS

False Intuition to is universel internet opposity and not the get of a fore printinged relation

 False. Both than and watton bove the same capacity for tributon. Watters trachterally have been front open to uping their stration.

3. Trace Chaldren typically bars bars wary stallwelly in their statures wary stallwelly in their stall "gene into holding" and stable developing when estillite de ord accept their safety diamonsessions of intuitive throwing a Fable. The inger obstance to multiken are class to parsonis head or sources.

 True industrialiste mental processa which underleye many kinds of exceptional behavior including playelise performance

8 False insultive capacity in beings, but just as with any powerful ability indirectuate with in how they introduce to denting of how instition opvides, Tub averthesis is esenial to the development of EUXIN News 5-7 actuacies institution of the second second development of you are interdeveloped II you are interted II you are interdeveloped and a second in an intertain close GH council interview You may be intertain the intertion of mission and onlying tea heavily an your sitematition and

I HEART MATTERS

For questions 13/58, the tallow

- A Namer to D
- R. Rovaly = 1
- C Scenebrate = 3
 - Rompetty = 5

12 Knowing who is at the door or on the phone is a good indicator of interior at work

3 Although greatts are of

18 Your solidy to "head" peopie can be penalty stratulation or station and is a sign of rital flor gapweight.

STORE 2000 Four theory intervention of the second s

ner visios," hwitos thay are situafly more insultwa

21. A. 8 points. B 4 points. C. F. gurre, It womenies is values time secret, it's a good indication that he is constantiable is the guilat of his own mind and more receiptive to inner increases.

25 A Five points; B Q Points Adults who enhibit strong intuitive skills have immethed tool magnary playmates as children

26 A, 0 parts: 5 2 ponts: C 5 points D 8 ponts Foat (of any kind) is the doorgaut block to the flow of intuitive understanding.

27. A 0 porte: B 1 ponte. C 3 ponte: D 5 pontes hose who stry hosely on cutsete simulation auth at Missete simulation auth at Mister automatication a chain 28 A 5 ponte. B 0 pointe Intative communication is chain symbolic in relative recombing the language of metaphor

SI A O points, 8 1 points.

GALTHOUGH IT MAY SEEM THAT INTUITION IS NOT WORKING IN YOUR

QSR HISJONE RITENTED

 True As individualli become sente sational toculters often deteriorate, allowing bornts of intattive lenowlodge to nome toth.

8 True Tranking is a contains process which engages all aspools of human consolutness to viewes chanses

I False The borned state of compositionness varies from one inflation to smothar. Many social of inflation work best shown they are fully committee. The set of a physical social special of a physical special spe

11 Tas and Pater Altraugh plochel Ismposishy softens the barrer that impodes the setor directable Wholesadar. I setor deaders availables to that accuracy and communplatities are weakamed.

SCORE 5-11 correct answers You have an excellent under (n) concerns with controlling symbols, they can be a group musive chemet for any can adding to work with item. Imparticular, dreams are one of the bag massas for non-tring practigative involvedge. 14 To perture sametries (same not yet) more than you.

Its Thinking is a contanation of reasoning and intuition When a reformal approach to updriving a problem tabs, latztion atten 'pope' through con acculateau attd provides an acculateau attd provides an acculateau attd provides an acculateau attd provides an acculateau attd provides and acculateau attd provides and acculateau att of the wrong mercens.

16 Insution sometimes opplates beyond the constraints of time and space. Tabling of sometimes an sign of relation that here is a sign of relation at play.

17 The iscner third always supplies situative signals to gade un toward good doosons obtained mainly by inturks react. sublid be correct.

III. COMPACES IN ARMS

Questions 19:30 are scored

18. A 5 points: B 3 points: C 6 points: Musical ability for declars a predisposition for synthesis non-writes contrarriscalen which the much pricommon with the much pricommon with the way station. Annually, meethers.

38 A 3 ports B d person blades base devicementaria plan with an extraorementaria plan with an extraorementaria base hard to be preventioned of the press hards an indexis of the press hards an indexis of the work field the manufacture press work field the be manufacture work field the be manufacanter processing to charaanter processing to charater processing to character procesing to character processing to character proc C. 3 points, D. 5 points 4 you're too leusy or herred, it's probeby a sign that you are miying on ablets foraie topo vide order and meaning to your the The attracte is a time dener flow of in-ture is the observation.

30 A. 5 points: B. C points: Budies show that the most successful refetorships are these in which there is a clear and inpust bond of coin munication. These same dataacteristics are essential if inmatterialics are essential if intables is to transfer.

SCORE 50-63 You're in good congany wels histor who as highly instee Whothin you as aware of it or red, indiate plays an isponton, tely in doad 46 Onten a pectro of your We with pantonskilly indoated the strat you have drang polative patiented Sco bont despar. You may be your sen type of in you ow company, not following an assumption patients of .

AUTHENTIC STING RAY... from head to tail.

CHEVROLET

Chrywhet Motor Dynamia is exceptions with Provides Mint Precision Models precents the definitive discuss readies of the first Stips Rev. Carifed in 124 ecsis of 118 seconds sants.



The sporty intenor features highly detailed instrumentation and soft platel avela.







The hood afte to revisit the powerful \$27 cubic inch V-8 economic

The 1983 Convete Strig Ray Amena's deam machie. The spats and participate of the automative wolf with its revolutionary design and partomators. New, Chevrolet thietor Thesian, in accountant with Trankin Vest Provision Models, presents the definitive die-cast re-seators of the 1985 Convets Sing Ray.

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Frankier Mirt Precision Not Pranklet Contor Permityko	ng 19091 0013
cession of the 1953 Cover will serve ready to deploy millions and a Certificate of Invest SCND NO MONTY	precision engineered deviced normal to Bang Rey. Ny imported model and with in television elevision (Authenticity) Battleford for the belience in 4 equal monthly "The system also is not con-the integrated to impact on the strategy."
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Diversities and the subsect of the subsection of

I nonvelense desam that a million years from now an oliver spanning discovers our solver spanning and these a dealand Wash hoppond to us? No one knows the may have left for the small. New no final discovers that all the spanning final discovers that a different particular Advances before the small theory and the spanning the small theory and the spanning and these spanness, great discovers are finder attem maintenant and an achievanes of throm. these, backly balls manue and thought.

What do they think of it all? Shakespower better their suncespchology, our selence seems primtive, but partilips they see some promerie in selectivity automatical and hy. I like to megine, they find what it to them his suppliate admiticat Golden's proof. It speeks to them as nothing also can. Why?

In 1131 Fund Datal publishes apport that clience to benefit the apport that clience to benefit the presenting these proceeded and the apport of all or of the second and the second and the apport of the second and the benefits of the second and the apport of the second and the second and the second apport of the second and the apport of the second and the second apport of the second of the second apport of the second frame the reach of Godelis proof into tax, economics, setuptin, the sciencis, how we will write the and how we should judge schemas for improving out lit, to not excland

In Marc Tool Houghts March in the Tool Houghts March instruction and an antibiotechbiotechart and the second second biotechart and the second second biotechart and the second second and the second second second and the second second second and the second s



Mathematician Kurt Godel may heve feuced a proof fer the way the universe works. Sciencefiction writer George Zabrowski tekes a moving leek at what ballef is thet proof estable



that Gödel's thacram proves that machines cannot theik

Today, most educated people have head of initiativity and quanter theory tever movie stars to a sound copies of Suphen Henkerg's book on cosmolo (y) Bot about Gooshi people Geople Douglas Hoffstodri's Goddi Ecoher Bach (Base, 1979, Bendem House Bach (Base, 1979, Bendem House John) the prove that we can take a syntrag? Wall we all show the?

This is just not good anough II is were otherware her might have shown that we low in a unware in which we wrything. So the proof is for from twee and also implies that we can't both were and also implies that we can't both were explaining accurate the unwereast is a region of a set of the twee can't know we explain a statute the university. Also ever could existing the university and also the twee term and, like our idee of four regions on constant.

There is a world of difference be tween saying, "We all know that we can't know everything," and giving a proof know everything," and giving a proof that ends all doubt. The formal proof demonstration that any sufficient sufficiently non system can be shown to be open-ended. The human mind is such a system

In the years since Global made tas proof, exception of understatile mathemotod (ataximotis have base) found qualitating gravity, in leagung with Global stronghateness thoasen, was pullbreaks in the 1968 John con Nouminn a gradi mathematicatin hempel, write hot "Global's activement in modmilitation and an antimilitation of the second strong with the leagung and and more table tari space and time.

But giver the reprove that see in present in Goodin's proof which does it meens that have not applied to the second second provide the second second second second proof second s



Kurt Gödel receives the first Albert Einstein Award for ochiavomont in the netword sciences from Einstein himself. (1051)

> yinch diduction system— antroxicit, be overspheis-will but increases, but will all meaningful but increases, basage of the other which the system. Mainage of the other which the system has a system of the other system of the operation of the system of the position of the position puts you in the position of the operations puts you in the position of the down is the if it has been databased if our taw bits exceeding on the the takes and down of the intervent and the the down of the intervent and the the system is in projective database and the down of the intervent and the the system is projective database and the system is projective database. New

However if has been owned that Sideal's proof is is that about systems of thought not about the unwerse. Its shout maps, and not about the territory they represent that the is what Godel set out to prove—that the actual tertury will always terrescend the man

Mathematics has always shown is conous shifty to be applicable to nature and his may express a doap tink be been-our mirds and nature. We are the unnerse specing out, a part of nature, so it is not augmenting that our systems of logic and mathematics arig in tune with nature. Godel himself belevoid

WOULD IT BIND AN ALIEN CIVILIZATION AS IT DOES US THE

That methematical objects have as much reality as those we percover with our concos. Rucker points out that in the byposite and the metametal and provide the second the record to object the body at the object of a physical opportunit. We cannot settly imagine what we please and have not bud.

Some onto have argued that there is an unbridgesible guilt between language and reakly Built then is so them to strout of language can decide the mistre of the ensitoneters, or even decide that there is a guilt at all-but we have many researces to think that they guilt a bridgeable, because we do it guilt of bridgeable, because

If what we do approximy in our mans with system of mathematics and logic card help being connected with the tambray catalon, then Godel's proof is ato about instant The same hand fields for knowing at faits expresses bout the interpret fraction and oubout the interpret fraction and oubout the interpret fraction and oubout the interpret fraction and outer our forward by camet commonone put forward by camet commontion modeling and potential utilities, other a westeriors, requiring in the bound of how the put of how hadpe may become significant and extensive but rever complete. The relationship between Goard's theorem shift her universe outside our minds may be best suggested by asking the question, in what kind or universe is Godel's theorem bus? And the answer is, not a clockwork universe.

But perhaps autified of our perphoory nature is a compare downminam, but are car't are it. We are finite, tabby decisione beings with experiments had to for us events seem unpredicttion both of the service and the but causely explanates after the doctiminant by exercising the binders of time intakes a nature that may be complete dottiminents and traveless.

Democracies integr texpore to trace beings in the came The Arborn phet Arage Doc the speared y store of a critical, segmentary storard the store of the speared store and the text plan. He is a deaply work dat to stackness water the administrapacing a man who double accesses have andcard alivered genergical at an down or spin being dropped, they and down that he leads to Sball a blickable plane extrementing in advector. Living in Godel's universe makris

Persnip kids is a potentially endees pb. The same will be true of rasing addout mail maligences, but Goler's theorem will find application in our construction of more notify endolved computers that would be two human mindeoorthinous rather than stap-by-asie pockerste

In this there will always be cause that access all in writing to come, no mother through other it is prevaid. Liquid publicly and other it is prevaid. Liquid publicly and provide the second public of a liquid to the second public of a liquid to the second public of a liquid to the second could be not encounted and a second liquid to the second could accurate a second accurate a second



engage in such heing to avail the charge of raciam. (Some orthos charged hat her particular or rething) demand was samply a way to have no way at 31 The more process the dathing, the more if fails to cover cases, too toose it compete nothing constructive Law caintol wer be more than 'good erough' in God's universe.

In according well had potition number accounting, and now we have following according, and now we have following the load of instantiation incurpt may wheth is northin same as details accounting instantiation of the same as details accounting mitror that two value of humanitiand's set addicated of northin same as details accounting mitror that two value of humanitiand's addicated of northing accounting and accounting the same manual set addicated of northing accounting and an interpretation and addicated and an interpretation and addicated and the ambient and accounting as well as in mining range that displays of add spatient of growth for the northing and the on human exploration and and human accounting the accounting and the ambient accounting and the ambient accounting and the ambient accounting the accounting and the ambient accounting and accounting accounting and the ambient accounting and the ambient accounting and the ambient accounting and accounting acc

Karl Popper's "faisiliability' ontenon, in which a possive proof of something is not possible bocause the number of osses to be tested is infinite, dovotals with Godel a proof of incompleteness. Popper showed that if comething care at least be magneble), then it has a chance of being true-the best candverse, even though it will never be absolutely proved. An unfaiefable cenddate, towards, can be nied out he. while remaining, in principle, talefable In Ghrin's universe, an unfatefielde Idea is complete Nothing can ever court against it. A travel exemple. Litte creet men live in all relificerators, but they disappear when the door is dogma of any kind, held on fath. Both forced dogmas ' because they have a built-in resistance to any kind of task. per's faisfability' criterion for truth can only work in Gödel's open unreinen

Degras are the energies of Godelia universe breakes have stampt to end all decuseons and tests of truth they are tabatasen waves for the mind, prowriting the creative growth that Gödel's proof implies is possible Gödel's proof implies is possible.



It boost for bury our meet bit or other and in these stuggests that we can, in throuachieve our diseams, was if not head without and the post if our head without and the post if only the bury of the post if only and in the students of the post if only and in the students of the post if only and in the students of the post if only and it of the students of the post of the post of the students of the post if only and it of the students of the post of the students pleteness and centurity, and it adds as the supportent in the protocol value of supportents of the the post of the the post of the students of the the post of the the post of the students of the the post of the the post of the students of the the post of the the post of the students of the the post of the the post of the the post of the students of the the post of the post of the the post of the post of the the post of the pos

The clockwork 's an deal that is often ediment but we must fear its realization. For the closer we approach it the more our thoughts and actions and towerd rightly in a clockwork unvector, we could have extraustive rectpes for becoming a post or a scarriel, and they works under every time.

James Glack's book Chase Making a New Science (Pengun, 1987) is field with the kinds of decorptors and insights that can be expected of Godel's imverse

The experiments a derivations of the construction of the construct

And Glerok concludes

"Approacing the harmonicus structure of any architecture is one thing, admining the widness of nature is quite arother in terms of applicatio values, the topoletim or lease ar

IO CENI

FICTION

SHIP FULL OF JEWS

Chalance could hear be meaning from storage, the register, revice the revice of the storage and storage the security of the Habrow energing cloudy from the deal of the shall little thm

with some mature of dread and regard, religiosity and hope, the swells and prohing of the new and deadly continent opening up before him possessed him with a kind of graciousness. The scutch of the Cheeds wire overwhelming. Screetimes they would prev for bours, unstopping other trres they were stent, patching and rolling in the deck. The quees ness of their condibon doubless the criter of the strange and necessary effects. Cristolicro did not under port isabelis had pointed this out to him "They are none of your concern," she had said. "They are being deported, will keep to themselves under guard, will The exclusive Queen had gazed at him, her eves full and penetrating in the darkness. There was something very special between her and Credoford. of gaze and with the happenstance of the incurstion, it was impossible to bring the strange and stunned eccord to any kind of realignmon. Cristoloro was a man of farvent inchans clustering socut him, profering their strange and watful aphrodistace, their eves round with promise. But with all of that, with thoughts of approchases and Indiana, here assignment, the Chande were only the most merginal part of this. Standing on the deck, swewing, anding purchase on the thin and deceving boards of this wretched ship which was, his creat, his condition, awing keen and penatoring gaze toward index, the New World, the myslen

cus approchase and tusied boyate the dup of the greet horacon. Sanand other processors and an experimental and other too takes if he was invoking that mother of passage or speaking the name of his third and moot eccentric strip. Iffed with



BY BARRY N. MALZBERG ILLUSTRATION BY RAFAL OLBINSKI



Togeto de la assertir ne la capacita fonda de la assertir ne la capacita fonda de la versi ne la capacita de la versi ne la capacita de la capacita de la versi ne la capacita de la capacita que de la versi ne la capacita de la capacita que de la versi ne la capacita de la capacita que de la versi ne la capacita de la ca

Excuse me, Master, his yeornen seid approaching with autable humiy Eerypne know of Chasteloch appon independent with labelia, also of he serree and the secret instructions from the quaser which runnoved the mytho souther any who dispersed. Behind kry the inquisition, of ocume, only to Jews so the nut who could indeed iel? Ahead lay the equally mponderable New World, but somewhere in the middle. Creteriors presided and his excit was lemble. Its sufferity absolute.

The rabbi has requested permission to speak to you. He asked me to carry this materiage—

Next² which staff, Outside could be used to be presented of a simple of a simple file or or with characteristic of a simple file or or with characteristic of a simple file or or with the presented of a simple file or or with the presented of a simple file or or with the simple file of the simple could be an experiment of the brance of the simple could be an experiment of the brance and the simple file or or or with the simple file beam of the simple file or or or with the simple file and the simple file of the simple file of the brance base of the brance of the brance of the brane of the brance of the brane of the brane present of the brane of the the brane of the brane brane brane of the the brane of the brane brane brane brane the brane of the brane brane brane brane brane the brane of the brane brane brane brane brane the brane of the brane brane brane brane brane the brane of the brane brane brane brane brane brane the brane of the brane brane brane brane brane brane brane the brane of the brane brane brane brane brane brane brane brane the brane bran share which even before isabelia had made his life colorful and difficult, had not paid much attention to the.

Master, the yearner ead, I have brought the rabbi to the deck. He is over there, demanding to see you-

Cristofoto strupped A shrup seemed to possess him head to toe front to back, through all the specious thought all his life. Shrug for the meanspirited Barcelone of his day which atation which could not concern a emple Meater of the seas. A shrup for isabelle who after all was beyond her bility and would have made much trouloss tillating than the specter of he murfirst to grappie with the savages of the New Land if the sevapes were to show els and fragrances which Ferdinand had promised here if he were successful on this difficult meson. Store for this and shrug for that meet the tern ed indifference and ignore the





KARY MULLIS

He's been called "untarmed genius," "Inventor of the decades," and "sexist prg." His discovery has determined the future of molecular biology. And he has more amazing gene mischines in the works

It were a local to the automation of the transformation of the tr

Among the more scaththc goodes Mulks served up was a technique to Niter

OVAL more based in 15 minutes the converticents present takes a day, a suggestion front the histoic Avagastronismber system for outring interpretables of the interpretable of the second Multian measure of "things per microfile," and a newl explanation for the WIDS delivers the immune system. But beyond the second to beyond the enduring sequend of everywate the second test and performance that meaprements be and the second test of the second test and the enduring sequend of everywate the Second test and performance the meal powerful bits advence in molecular balance.

PCR Inde and multiplies tray begrowth of DNA millions of times in just house. Polong out a few base parts from normal DNA is like houring for a needle in a haymtack. PCR detects the bit of DNA armed for and keeps doubling it ANa (Secondard stock woulhave a travelack

PHOTOGRAPHS BY FRAN COLLIN



In the her replaced clumpy recombinant DNA cloning with a fast and strick way to make as much spectmen DNA as desired and has inspeed a burst of shortouts in the still-visit project to dacode the human genome.

Accounters abound in the municipal intervent and biocotarre and lation mysbands of the day sense. It helps degrade of years it helps degrade of years it helps degrade of years it and the sense in based balance and the sense of the sense of any sense in based balance and the sense of the sense of DBA variations and egg and the Second the remain the second the means of the BALD sense and DBA variations in the FCH day and any sense of the day of the access of the second the means of the second the means of the second the means of the day and access and the day and day an

Ico-year old magnola tail preserved in a pear bog There are plans to use PCR to the shap responsible for all sides and to analyze Present Lincoln's blockstains and born hapmans for consto welshoeses

MOST FAMOUS INVENTION: Polynarase Drain Records BORUS RECEIVED FOR INVENTIONS SYSICCO

> AMOUNT INVENTION SOLD FOR:

which has reaved was a magger \$10,000 bp, no. Ho brand of heavhooling costainty was wey too far out for corporate minds, even after the productant a breaktmagh now worth hundrots of millions of dollars. It has meaning, Catus tool PCR to Hofman LaRothe for 8300 million and comparing migraph the company with Chiron Corporation of Emsryville, Califorms in December 1891

Mullis, whose emancipation from dull conformity has always been evident, was born in 1944. As a high-school student in Columbia, South Catolina, he sort a frog up a mise and a hall in a rocket. He start-

a is a possible in the sector of Geerge in the sector of memory Geerge in the sector of the the sector of the bank waves above to possible and the sector of the bank waves above to possible and the sector of the department of approximation the approximation the sector of the sector the sector of the sect

Intervenver Arthory Luessidge taked to Multin at his La Jola home overlooking the Pacific where surfers datted the attention rokes. Alter the interview, Multin rishod to join them.

Onne Ani you sees?? Mallis No but a lot of people think so I show pictures



study can be considered complete all results haid thair problems, the more some people just sneer and say 'Bura'

Drive: West Stre you workup on row? Multis The mains this breakforway in using PCRIs accent the block upply. This normaly internative and the strength of the strength and is a pain in the ain. My way takes the DMA out of a large value of block on the function. I add atrobia an ever patient. I mad the array of all attrobia and a worker the that, backy, tags of the last that DMA is patient weekly. You tags of the last that DMA is patient way per-

Is the pour the block test buffer with a detergent. Jackforthragh ha solitors, and the solitor soliton and the soliton soliton and the soliton soliton and the soliton has been been been allowed the soliton and the soliton and the fitter as the soliton and the fitter and the soliton and the soliton the fitter as the soliton the fitter as the soliton and the the the the soliton and the the the soliton and the the the soliton and the the the the soliton and the the the the soliton and the the the soliton and the the so

The tick probably works because microwaves turn whith molocales into tich buzz savs by whiting them around "Where the DAA is pulled down into the holes prim title", it's twead and sindched and these lide woter molocales go whereaht and rupter the bond Whatawe it down it works and works real bail.

Deux What mepired PGR?

Mate I weath "developing a way to mostly subset 20% of all is well to the met indeveloping subset be not accessed by the met indeveloping subset to the ord subset of the subset of the subset well weather the subset of the subset of the subset registroot an experiment to book at one parbase learning the respect to the subset of th



pendarg further study no publications forthcoming all appointments binishue

POSITION

Provisional director exert ing study of the committee studying the provisional status of the director

WORKS: Depring DNA yawaity

I slammed on the brakes and Muller I Celus had been more attenculate it out. Then I drove on, because have just come up with something incredible ' She'd been askep in the car that night who knew snything about biochemistry, but she didn't three it was

A couple of miles down the road I stopped again. I realized I could use (short pieces of DNA), and get the enzymes to reproduce as big a piece as amed at just one bass pair Hell I could do a whole sequence. I restized you can out the arounton out from a cut, paste, and amplify This is going

I said. "If you get up and listen and vention " But she was just like the others at Celus. She did not believe i could possibly have inversed anything Omn: How does PCR work, starting

Mullis. I have suggested dropping that clumsy word from the dictionary. An ofal nucleotedes of single-stranded DNA. crase, the enzyme molecule. The polymentre cooks the DNA by stratching these little monomers (CNA constituthem in at the right place on the obconsclockde. The polymerase copies down the information from the long strand. With PCR, the first copy you make has gated. During the next cycle, the other end is closed off too, so the polymthat, only the defined DNA piece will be

Own? So you and up with a pure sample of the DNA you're after?

Multic PCR detects a very small queroe, you end up with something in it putities as it amplifies because it only amplifies one thing. It's like a raarred all that are coming in Other You made hotory at Cetus, Why

OMV

tive to the needs of its inventors. things. At first it was a good environment. I used the Cetus computer to set up a lab to make oliconucleotides and play." I started thriking of what we Ed no real responsibilities for about two yoars, and sail played, By the end,

Onver What went wrong?

Malls: When they finally realized that blich administrator who wanled to make a name for himself suddenly dewere wolves all around me. They all starttreating me like a grad student By

Then I realized you can cut the DNA sequence from a great big molecule. This is pretty copijust out, paste and amplify! This is going to be a tool that is spread around the world 9

It to a committee who'd decide if it was oklay I said. "I don't think that's necessand I should be able to drift, okay?" They said no

They but me over the ferrers-"fou ably do it again, but I am not a techniend up doing things just like you and

They should've said. "Diany you use us a hundred million bucks, maybe a billion Whiti can we do to make He reser?" But they took the golden goose and out its head off

I was acreating for a wer and a an important breakthrough in genetics They didn't understand that enportant inventions almost always cross the ines of disciplines. You don't develop guys working for five years to produce an investion. You have one cuy who sumps around and puts she together in unitaly ways and sees something. If a herd to magine even a good adminis trator having a sense of how it works If he did he'd be an rearter hmaelt

Most administrators work in sleezy ways, conferring in back rooms and coming in and acting an if the decision hasn't been made, and suddenly you think, What happened here? And they're of agen to have another big

There's nothing on the agenda of the board meeting on "What We Hove Done This Week for People Web Have No Legal Right to It's

Owny. You didn't even out a promotion

tons that lead to that. How do you do plain the company. A rescake But I Most of my good male monds are for-

Orses in other words you're not inter-

Multis Over my own life, yes, but not char anybody else a libed power liter. me out of this I want to work by myself

Pant over the patent for PCR?

Mults I wouldn't have if Ou Pont hadn't sued Cetus I could ve worked patent I feit the challenge was unves sonable. Nobody over heard of what Khorans had done it was unpublished because they didn't think if it really ing papers about once a month il would have been a very interesting advance and would have changed the

Own: What's they claim based on? Mulis. In 1971 his lab was assembling synthesis reports of DNA. They were too ing to figure out a way of making your of what they had already made in pury that would copy DNA sequences if a setshort, single-strand place, with a presstart at the end of the short strand and long strand. They wondered if it were possible to cut a prece of DNA, multitle

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GESIGN/ Skirbh is track plain! Unique track bying 1908 and specially designed to keila curves slighed and parces



BURLD/Create a colorful acting/ Darw bulkings increations rowth bridges create to the A complete set of character bests in restance.



RSM/Minke up a toin and davs it dawn the http://Openste.tack.uwabies. Each trum the to own contains that the which A cost leaves enclosed postform concrywhere?



GAMD/ Piny Abroadults's retenditive Revised Games and ealwr restating parties. Patients forwir is come from Abroadults's a new Relrison Games. Will Med Patient Reviews."

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To order by real. Add 47 Ghopping for program plan 42 own collisional. Band VBE/NC # (with way state) or sheek to demosterie, but PO. Box 2445. Dupres: CR 57452



Alien abductions routinely occur in big cities and high-rise buildings around the world

if you had to sa the perof time and co for a UEO luction, you would probably hoose a desert ed country road ane at ment. But Id Hopkins, author of two ks on UFO bduction, the only snatch people from deso ate areas is a th. In real



events. She is es ecially keen to orbe an ab duction which he clams tool ce in the fal of 1989 11 was in bed in m twelfth-fino apartment of East Side," she says. Suddenin e found her elt standing ou Inable white light

"They'l ge

kins claims, abductions routinely occur in big cit-

But there's one catch: Alien craft do not actually and in populated areas, Hopkins explaine. Instea hey haver 15, 20, or even 30 floors up and abduct eople through windows. "I know it se ble that this could happen in a place like New York 'What's more," he adds, "high-rise abductions are "What's more," he adds, "high-rise abductions are

rdinarily similar to their runal counter parts " In deed. like the rural variety, urban abo actions occus in the wee hours of the morning. Urban abductees like their country cousins, report unclessant medi cal exams aboard the alien craft. And virtually all ab ductees say they've been abducted rep since childhood, regardless of their address. "If they pick you up, they pick you up when you're a child and you're like a tagged elk," says Hopkins. "You're part of the ongoing thing." Linda Nap (not her real name) is a typical high

rise abductive. Nap, a secretary, claims that she was floor of a Manhatsan apartment building at the age of sx. Nap vividly recalls "a toy top with lights" or the root of a neighboring building and says that paraly sis and fear were all part of the bizame chichood you snywhere," adds Gerald Chamberlain, a tron bone player who performs on Broadway. "Wh skies are overcast after dark, there can be 50 UFOr sitting 200 feet off the ground of a big city, and na one will know t." According to Chamberlain, alion abducted him from his backyard in Refugio, Texae when he was a child, in 1953. He also says he has been abducted "more times than I can count from his savistory apartment in Upper Manhattan since the 1980s

But if so many UFOs are visiting donsely populat-ed areas and abducting victime, how is it that none have ever been documented? According to Cham bertain, the aliens can "crase any episo minds of witnesses. They can tell an entire b to forget what they saw I recently saw a UFO in Queens. I was volking and pointing and there must have been 40 people in the street, but nobody ked People just don't watch the sky. Especials in the city. They just don't look up

"Crary as all this sounds," adds Hopkins, "Il oni can accept the idea of a craft that's circular, can stop on a dime, make right angle turns, and go all most instantly from zero to God-knows what speed then one has to accept this these craft can visit the city, too." —Anta Baskin.



ANTIMATTER



TRICYCLE: THE BUDDHEST REVIEW

The pliat issue of Tricycle: The Budd wfeet ns a oc portrait of the Dala Lame stating into the o locking every inch the raditional king. But ional at all. all, poetry, pr tics, and tiks in pr hot stree sports, Spaiding Gray, the avant-g ria wrear are

performer, intensies the Datie Lama. Among other things, Gray asked the anked spiritual and temporal leader of Tbet whother he had over scen any holy man by the head not and whether he didn't sometimes allow viscors of bikin-icida wames to drift into his loar-hour moming meditations.

"As a monk I have to avoid that experience," said the Date Lama.

Asking bold, and sometimes purpose/fully naive, questions is what Troycle is all about. The kodile title Is cobbied from a heap of Bucidhist catchwords— tri ads, wheets, cycles—and designed to convey the cherished Buckthet concept of "beginner's mind," a state of complete and complete

permess.

Openness in the American Buddhat community is official, according to Helen Treatives, the magazhe's founder. "Buddhias needed a forum where hely could docutes source without the lear of scancal or wontes about the fuller and regulations of Buddhiam", agas Twoficos, who wrote 20%

Next that Troyce has roled on to how how a stands. Tworkey a saembrace the outure at embrace the outure at targe, in spile of everything. "propie true buddism," she outure at the same, when its how the hey hey disc. The databat, and Laartie due the hey hey disc.

"This magazine represents the angoing evolution of Buddhism in America," says Rick Fields, author of How the Secure Came to the Leke, a narrathe history of Buddhism in America. "It's a very natural thing." — There Contents

REVELATIONS

If computer adientist Jikogues Willee is correct, bogue UFO abdactions are somatimes staged by the CIA In fact, says when the author of the controversial book, feavefions are subtor of the controversial book, feavefions are sometimes staged by government agarts to "onsate new belief systems and converup inteligence adhrives that are bistarry filegal"

"I have investigated a sense of such cases," explains Valice. "If you can make people believe there are alers coming here from another planet and cooperating with the government, they'l also believe anything obe you tail them. In the meanthink, the red UPO phenomenon is not recording the proper solicitific alteritor."

ace technical iour groes with V ee's co s. Some UFO h may be practical jol rs. Klass ebrity see sts, and those who v be fant prone or psychologically disturbed. "Although, or sion, the CIA and nce Agen AR done some dumb things," Klass notes, they have more Important things to do dabble in UFOs -Koth Haran

76 CSIN

NEAR-PET

Children do not offer mont near death expe es in which otherwork ons sppear to those th. Toats ase to deat why William Serdahely, professor of health ersence at Montana ate University, was summed to discover one in his local newspaper Even more surprising was that the ch reported the pres nce of

P., a seven-year-old boy fell from a bridge while fishing, hiding his d on a rock at the tom of the pond. He was submerged for me five to ten minutes and when fished out, his theat had cea et two days later he

an unusual story to tell Although he was

inconscious he remem bered seeing himself transported in an ambu lance while weering an death, he extend a dark y's deceased pers the springer spaniel. After Andy licked P.'s

In previous reports Serdahely notes, people have recalled deceased "Inis is the first case of pets." Why pets? "For ha little boy," Serdahely explains, "the dog and at obviously pro he kind of comfort that Paul McCarthy



MONSTER CO.

Back in 1971 an en thusiastic 19-year-old named Keith Kneler Walsh made a transation then raising fur ds for a When the teenager ask if he could join the sear for the creature, James acreed. Waish then so e and a half week ping monitor the sk ora loca 10.0 the loch. Though he never saw the mythicsi monster erience made a lasting impression Now a musicien who

ces by the name of inning Walsh has m ed his fifth work. The ent Link, a compac iso of "sonic constr tions" inspired by Nessei and other mystery animals ant around the world Using synthe ors, elec onic drums, and other as well as shortwave radio sounds, Keeler's impres onsic music portays en monsters, inc te Congo's Mokélo Molimbe, an alleged dinosaur, and New York's Champ, the so-called sea nt of Lake Cham n. His music also situdes to five broads ry creatures, includ roja's Sat China's Man-Jer on't know if they are all



pal," says Keeler, but I do think such eatures exest." So far, Køelens's eiec

ronic monster music has carnered tevorable re-

A COLLECTION OF IMPRESSIONISTIC MUSIC PORTRAYS 7 MYSTERY ANIMALS INCLUDING BIGFOOT AND NESSI

views. Option, an alterna ive music mag found the disc to be "a majestic 1950s sci-1 soufilé * And Champ researcher Jose rzynski, revie ing the CD for Strange M praised Keeler's "pione ing effort," calling it "the missing link that mi minded cryptozoolo have sought for so to You may order the

from Great Orm, 496-7 Hudson Street, Suite Dc15 New York NY 10014 for \$15 postpo - Patrick Huyoh

PORTRAIT

CONTINUED PERSON PASE 45

Kautz style. "More importantly, they realized in retrospect that what came to them in a fash oculd not have been ratonelly docluced from knowledge they had before."

To listings Rusz tells a story Gentran-born chemis Friednich August Katuá von Stradonfz was napprog in tort of a fregland, and he dreamt that a stake was bitrg its own tail. Fon the dream intege, he concerned the benzero fing shall be basis of mozim orgenic operanys. Natz: way gently alto listic to terminal and and a that Aber Bhudon and the terminal and an and the aber contentiation of the animal trough my statution and mod."

Exercially Ketzfix curposty lead hm to the versit of Jane Roberts, the semar who channeld the early Solt. Mlar reading the book. Sinh Sprake Roberts and had a number of sessions with Suit. He was intriguably the idea that Roberts topped into intro-slicity alrough Self have a source set to the verurfamiliar to har. During his sessions with Self. Havitz proced personal queewith Self. Next proced personal queebons, scanfillo questions, and quesfilms glout status incot people have no direct incodedge shoot, such as the origin of language. Keutz was so improseed by the quality of Seth's anissed that he statistics he expenseso with Soth/Hoberts as "the log that bole the am".

When Kullz nearhed to the Bay Me each to sought outper intuitives Thenery Nexes, a former at director who is a CN expect tradition, me Kauzy at the new nearly defined Gaia Institut, and optimization to Ban Francisco dodicodo Di objetiting salaus in correctouerse. "Bit Razz was on observing" sha salay. The was the typical abservation of the salar typical abservation of correctors.

For it seems or right years, koudford a double probasional like at SRL his weapparties into an annual seems to a like his weapparties intohis modification, but most faters wears? all that internated to Routz query prodeted going giving unto SRL what wear for SRL eng giving unto SRL what wears for SRL eng giving unto SRL what wears for SRL eng giving unto SRL eng giving and set of the set of the set of the SRL english of the set of the set of the SRL english of the set of th



tormer methodology director of a futartex study at SHI A comparable example. The crise, would be NASA scentists who are "closet LFO freeks."

Instantisty for Kutz, he want the mychomotopic long to an use the mychomotopic long to an use want ensuing the sectors and the sectors and any discretional long to an use want and pluster reaction. One procetional ones of the sectors and the difference of the sector and the sector a

Topies, many SRI 'practuates' and top mor "straight" scientists work in sreas such as consciousness studies and futures research-out like Neutz, As proton in Clear Lake, Markley now curs the retion is only degree-granting program in futurial work. Another former SPI sciordst. Wile Harman, became a welstaute for Noefic Sciences, founded by Friner Mitchell, the Apollo astronaut allo when he saw the earth from name. The instage is one of the prereserch, is also a former SPI staffer. Other SRI personnei from this people include Marshall Pease, associtive director of the Foundation for Mind/Being Research in Los Altos, and Hai Puthot, a Studies in Austri, Texas, an organization that pioneered zero-point emergy fusitions in emply space

In 1977, while all a scienter at 5th factor morter the control k-polycial scient morter the control k-polycial scient frameworks in the physical science of periods in an assessment of the science of controllers barries around by proficeentities and the science of the science of the physical science of the science of period with were responsible and all periods who were responsible and all periods who were responsible and science of the science of the science of the period with were responsible and the science of the science



curbody does not work." Kautz says: "That's why so much parapopychologcal research has failed over the past 150 years: Researchers ask questions which have no law to argue, or they already know the answers to the queetions they get. According to Kautz, the need to know is a critical factor when working with charmelia information

The increases focus uncertainty over the park CA can be an writery over the park CA can be an writery or programmer that the annual the proprogrammer that the annual the proband of the annual the proband of the annual the protead of the annual the proprogrammer that the annual the protead of the annual the protead of the annual the annual the constant of the constant the the antibias and have the constant of the constant of

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During the period Kaute phangetito a matter of assess har possis and periodiated the method of ingary mechanisms and the method of ingary mechanisms and the magnetization the across of a controlly prepared quetions in threat one wave magnet risblaws. Their responses are compared, conpetid, and ingary and the periodic of a specific organisms. The instances of the starts wave in logical desires of Kaute the set ingard externo of Kaute the set ingard externo of Kaute the left full matching events on the particition approximation of the shall the assession. a range of new hypotheses in the area of gaophysics

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what all the fuss was about. "Bill Nautz is an applicar, someone who charges out and plants a flag but these in front of even the stinguard and then wonders why various measives come his way."

Like many new-paradiam thinkers who emission a more bolistic were of the robute of reality, Keutz says that her work with intuition has dramationly changed the way he locks at the "Sciin our modern world, and it's based on she'v assumptore causally opporbe says. 'Scarlice assumes that there ing mathematical laws, and we can loan all about reality by breaking metter down into its simplest components and then observing and measuring it? Kautz no longer believes the prevailing yow can explain the nature of nealty Nother does Harman "All the old puzzles in science-failing bodies frictionassumes separability first and then asks the appropriate punctions. When you look at things from the assumption

Some of Kautz's harshest ontics

coming the warry warrow of the method of the

What aload humbes, prescriptions and sudden bursts of intowledge? When do how not-succession happenings if into the Orestain work were inglisted psychic power in mer, but "There are Christian who accept a neoinal, listed psychic power in mer, but don't i says intowle who alows in intuilion, but he doesn't thrik fit capable of statistic p information acout hom



the five senses. When someone revealed superinstant instruction fraction to verlifed but which caution? possibly have been known. "Intere has to be a sprit power instruked, and it can only be one of two origins—God or the powers of diminizers," (troope says)

Does the main that he gerts an exducing international business executains who exists the sensores of CAP's why the ubscheder gravitate is lossite trats is much to dowith economics and bell systems. The ubsprace piece a gravit devi of thus in all forms of intutive communication. Even assuming ontwo communication. Even assuming to synvative biotecommon accept the side that can be people have spools incoddose, unusual react.

"Jammene businessmen roly a grand data on hampen whotmears belly tak," anyo Mangaset Haas, the peesdem of Haas international, a New Yokand Tokyo-basid executive recording im "Rtobleyho-belly guide gui information. They hance initiation," And, Haas saye, Boddher initiances all permesia Japanese collume. Its nec successments is a Japanese executive to refer to karme or falle when taking about a barnese ding in method.

Whether or not American business men and corporate anactives come to ambrane the work of CAI is yet to be seen Although two local CAI is not to comporter took has been in Jopan. Nami hand be american and the compared that and a segment. Typically, Nami is hand by anni mdwataal, usuday the CAD to spond the at the compary do-CAD to spond the at the compary doated of any other than the compary doted to any other than the second that hand by anni mdwataal, usuday the press cert simplicity usue. Tools the

The miluctance to openly invite expert intuitives into the American boardroom and management trends are on the are Americans—across the special man are expressing a longing and interest in understanding more about the spintusi realm. More and more people are of looking at the world to another. Kautz says "If they are reaching and want to break through. then maybe out work at CAI can help them through the anything' For a long time Kautz thought there was only one way to apoureknowledge-thescerific, telen other way to learn-through direct know ing, Brough infution, My caneer has mvolved oping from one game to the othbring the two together."



reve mohematics of finatul generative brought hand service in the with the possibility modern hising for unbarred, unvalided understandistics and the one time ian insents deserve, both god bothands representes all that society was trying to sobole. If people vanies address antichector hom vegetation, they bothand arguadams. By the ends of the newslets century, the culture had that god, sinci new sciences was changing with 1."

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ourselves and reakly." Godel's proof is as much about the limits of human minds as it is about refure, because mind and nature are continuous

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Weld, for human knowledge, the mean all the way and they will always failto capture complexity the infinity outside, and I wouldn't have it any other way. Global's proof may be host or relatertings to make and waiter. All his doath, presson welve adhexed of our relatertings to make and waiter. All his doath, the failes, having provid that the castle was an entrified latyroth that would new in reveal any Uternate spectre.

I suspect that this is the secret DO

CREDITS

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schame and concerns of the Inquaston which abn all had absolutely noting to do with him and which would go on its bottupus way whether or not he was present So brog him have. Chicktoro stad Let me discuss with you later the proper way to deal balow disck, do you hop mo?

Weakew' you car, Merker, the yearment issued or granutiant The mobile hape between the minimum state of the weak and the second many management of the second and the second and the second and the mobile participant of the second and the the participant of the second and the the participant of the second and the the mobile second and the second and the term the Many participant and the second and the more address based and the second and the term the Many participant and the second and the term the Many participant and the second and the more address based and the second and the secon

Well well, he start of the same set the percent benched eavier, submitted to a set of his postore—if nothing while he had established deference in this crows hu had the weight of royally behind han of these weight of royally behind han of these sets unneed spectra and temble prengements which the king cold will never at admitteney per mailstart brings you above deck? Yes, what brings you above deck? Yes, what brings went?

The Jew still storing at him in that curous and effecting way stad. My name is Solomon Scholavio, I come to ask, you is hypor---

I served extended in your toma: Distoforo said. Your names, hankly, mean politics to me.

Yes, but-

El variad to establish special relatorres with vews, Constorer paid, it would not be through the maximum of meme L would request your presence in other ways. You are here, below the debts, on sufferance, through the maxoy of respetit and Perthand, our larging and queen I have noting whetevew to do with any of this L am samply under orders.

That is understood, the Jaw and The conditions below are impossible. There an two instrated and fifty-two of us and we are fainting, we are plausid one upon another in light racks and without front air: without went the possibility of an There is much fainting and ilness.

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said. Conditions are difficult for all of us. This is a voyage of privation

I beg of you. Solomon said Permit us to come above clacks. Nor all together but ten or twenty at a time just to releve ourselves of this torment, to take the air. Io infowe-

Concisions are worse on the Santa Mareal Chatactore read. It is a siteve ship, filled with the clarikest felders of our time. But they do not complian They will upon the waters to the New World uncompliamingly and they hold against the day.

I know nothing of that. Solamon said I know nothing of the conditions ballow deck. We are perefined, soon the deoade will begin than the slow and ser the wasting of tesh--even our most lenwith progress will go unmasavered--

Checklos strugged Arechte anug Smag at the kurn away from that consider the Mainra who it was named had resounded the ductame to leve in secret and had thus avaided the eye of the houting and the seleng seminan in offer ways. Checklos name plant abut that Smag at the sec, strag at the New World Stall. It is had been sha the New World Stall. The had been sha at the Prot of Benesiting and would have Wood bond shares the cover introd Houd of the Juppen to him? How had he become the Master of such a rade soyage? It was all that Cristions could don't to reach out and share the rabbs: explain that there were many in agers here and that gony was not noe only a matter of selerage Buble read nothing of course. The noteines and favorers of encomment

I am sonry he setd. I curnot help you You will have to do what you can down here it is to decrear. The condtions were made quite explort to mascriff the same use dow for you

But how long? Solomon said How long will this voyage be?

Acceleration in the gas and the terms of the part of the terms of the part of

I know of rathing Solamon much too megudge us all of us clearly We are not cattle we are as you and we are suffering. Man women, and the chiden some with pets subuggied aboard, all in pain, all of them with speciel and necessary orace. Do you understand any of the?

You are to return below direk at once, Crathforo said the dask lakih di anget halting timugin he bowels. Now, before this continuos. You are insolved and you are exceeding my pastorico. You who taken attoard try meneuve of the queet's generossly and because she take a studies and unacoustomed phy upon you. I have of nothing who

They ory, Solomon said They puly and in the prevents there pays and there bornent. He gestured Carril you have? Indeed the identify of the Jones to which Chatablos had accommodate distanced as the learning carsabilities of the water provide hom outdonted the solution of the sugary of solution with the sugary of solution of the s

O countrymon Solomon said, my countrymen, my brother---

Brough Orableto seed 1 am the captam. No turned his back to signal that the memory was over that the petition had been reveiwed and derived that no less than Torquemade he had been bread he abstrukcy as a meens of containing these people. Bethind him he could here proceed Bethind him he



Settrans were planning some dagasda final assaut: Diestrice short in hend finales har ans savad grenn at the sava stach hender fam in gestrans at dagate he arms ingelander of harsized states he arms ingeland of the media savalised by the sates 'y pargred's strend nod the anali and dama attraction of biotence patienting away and savative of biotence patienting away and savative of biotence patienting away and savative of the same fact savatime in the space of biotence patienting with the savative of the same fact savatern the space of biotence patients and tember bounds which as galaxies of the save facts the temperature

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On intern to me, Tercasmicals and Chi latten fremosis and companions. They galawad acourd him, the most devipriority here of Status men so diapasproperties of the status of the status of the they had been segarated. Chi latter devinesis cault control here, could understand and appendix that spentom data and the status of the spentom data in the status of the status of the Bellind him the status of the status of the World here status there are encough World here status there are encough World here status there are encough data of the status the status of the data of the status the status of the data of the status the status of the data of the status of the status of the data of the status of the status of the data of the status of the status of the data of the status of the status of the Suid to it Clin you not see if? Unstaning the new land through the spanne of the load. Here we sell begins shredt. Torquemate stard that was the plan. In trajector shows, "They mumured the trajector shows, "They mumured the trajector shows, "They mumured the trajector shows, and plan them, in the trajector of the loads and plan them, no the world of the loads and plan them to new and batter shows. But you must here our course use Must not fail

Kill them, one of the men sed. We should go back to the Master's step and kill them now.

To have subtrained and the second second second second them have come in the new stopp of the south motion of wayse. New stopp, the south motion of wayse here any second secon

You talk like a priest, one of them stad. Any you a priest, then? Or are you one of us

The more of the set one of the set of the set

Or am 1 not specified? In thought, a main of doubt as well as of high just as the honorad Sawbour himself had been is these than's is not alling or the other? Is that includ of any how head of for the Jerussian of the spectration will exect a signed in the sign. of the otopic will have partial as head that the test of the main and, the



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Bought, but fortunately I can attend to the matters of transcondence, issue the temporal in the hindra of Cestridyon. Thy will be done Tongeemade said. They looked at him intently. He raised his hards in the gesture of submission, fieling the temble power of the waters underneath.

In the racks Sciomon said, I did the beat I can I pleaded with him. I asked for an and light

But he said no, the three Davids said. He said no, the traveline seed. He would not have us, Judth and Rachal road, wijing the liveheads of the chidian who classenid. He selated

That is right Solarmon said. He refused this said that we water identitys giftings, at the behiest of the quare but of no concern to him. I laid him that we would due and the turned swary. There is nothing to be done.

Crietoloro is not a man of meroy, Jodiffisaid. He cares nothing for any of us.

That is not so, Solomon said, Ho is doing which the mark just as we are He is in the control of larger forces. At least we are on the seast We have been sparsed the incusation. Waybe it will be different for those of us who leve II they level if we her. This domnable voyago-

Spared the Inquestion Ruth and twiing Solomon shand, but not the Inquetor The Inquestre is always with us He comes in the right, he follows on the tests, he screams from the bowels of Necture 1 understand the now

Nothing to be done, Solomon sed

I fail you, Rachail said, that there is a judgment coming which is beyond all of us They steek a New World but it is demaily the old.

The steerage, silent when Solomon had inturned, canti down to selence by hopp or at letati oursely, exumed, beken hagnetist of paryes accounting on by to the thin buildeads which mode here moving against the local, then desided We cannot such when the are solid We cannot such when the set of any of n our hight sour guilt and our outpation here the our guilt and our outpation.

Newtheless, Judith said, as if she had taken his thought, preseng his hard revertifieds we have at lass child biaretives, carried a bit of lostmony moved to some different place through the designs of our own spell Wi kail not Nakim. We are not accosorte Our spochtary is of a different kindor Our spochtary is of a different kind-

All deplecement is apostacy Solomon suid, the classified murmuning about him the deputation with Juddsthis workten, to engage not only in proyers but Taimudo disputation with some was their pecular but nocesmany take in these conditions—controuing and in their strange and strangely conrigitant angust mesting as the Protemethod by control them toward a pate method by control them toward a pate method by control them toward a pate method by condition of the toward and which they could not determine in all faith, in this faith of God, the one God of listical whose Name was Che and where Orientes; was individual in the heart of their colo

Targamiata, asset by a sudden spinc of bottsty and allemator, strack as E by a bott from the bow of the Holy to bott the book of the Holy inter the book of the Samartana, somarent of the starts of the bolts, and target to the sites when the clapty of exists, might bring upon terr, the abase of the starts of the botts, and the books of the other whet and the books of the other whet some but its projects in the culter legthe starts of the scale.

And so, and so they came upon World the slave ship and the Master's ship and the ship between, the shiplut Jews chanted as a gritt and complipart of his destry in that moment it was as if all the conturns had exported and property, repeted and necessitious them from the heart of the ocean to the mythe of purgation and collision heatensins The shipful of Jews, their capitals their keeper and their incutator joined Cristoforo dreamed it chearned it all dewarred that he was in the gravity of Isabelia herself, her capacious seo all the centuries and scholars to come and the apray of his send upon the him past mith and toward the first awarpness of his destric Cristoforo the Jew Cristoloro the keeper of souls

Realing Keddish then Vyish kaldash Street rubbo

All hallowed be the name of our God Brich hu

Hallowed and sanchied

INTERVIEW

CONTINUES FROM PAGE 75

two strands apart, put the short DNA prime on them and get the sequencio make two copies. The trouble was there was a competing reaction. If you mait a DNA molecule apart into two chands, as soon as you used in they'll find each other and wap up into one stand date.

Someon, where the second secon

Omni Cloning will make huge amounts of DNA, but unselectively notif?

Matte In molecular clonery, every 30 minutes or so the cell dividia, making 2, 4, 8, 16 copies of an inserted DNA sequence Bat every time if clockles in copies overything, the whole DNA piece There mght be 3 million parts of 4 three

Chrong was a giftay thing when it was attractivents of part bless popular and a suse low POA has reported who occul that a suse low POA has reported in the part of the part o

Omy. What is the direction PCR's going in right new?

MARS IT is not index used by material to bolights that is have elements a the have of molecular bolight said its line where plant is the have elements of the bolights where the bolight plant are acress for PCR is to DNA what he bolightsheet is to D Multi-A state complex cost is a way of h-transing exection. The will have major applicance is deterring platmation and applicance is deterring that an addicate execution face in the tabtion cost with a mass of molecules and will be proceeding to any the TCP assignment to the table of the table and applications and along the table of the table of the table of the table table table table table and application the multi-application at the table table

Orner: Why did you decide to call your caber up in Mendocine the institute for Further Study?

Multis A let of papers and with the phrain This mean disaverse further aboy trying to get a gust. The IFs is a phore where has can be done, what hostsdy can be considered coming further study, where no publications will be forthorming, and all apport. mets are letistive 1 am to providermets are letistive 1 am to providermets are letistive 1 am to providermets budying the provisional status of the director assumptions of the com-

Cent: When are you ging peed? Multip Thore ago the gow the first Multip Thore ago the gow the first inclusion and the second second second resource and the second second second the second second second second second philitization and the second second second philitization and second biology that second second second second biology (in supplement the second second biology (in supplement the second second second second second second second second biology (in supplement the second se

Oney What are the potential herd? Waller Fronteen of modeline are conweight with the feature of chemetry. Add from surgar provides, deal opments here been coming manife limit chemetry for the last 15 years. Bology door undersaft is up of the space of the set of the set of the space of the set of the set of the space of the set of the set of the space of the set of the set of the space of the set of the set of the space of the set of the set of the space of the set of

Orear Do you think that you util be able to come up with a second POR-type breaktrough?

Mulis My blood sampler may benefit some of their physics expertise and

ahead with a foreign language!

New is the first to advestor your entern Global humans useds people who can conversingly advands

With Audio Furan's proven selftending audo-mostle correct, you learn it your own poor. And whether you want to - while driving, preprint, realizes the

Mastaf our programs were developed by the Romps Bervice Institute for U.S. State Dept, personnel who must leave languages outsily and thousantly

A typical martie costs \$175 and manufactorial is and a second state of the second to 24 hears) plus 250 p. technik and in equivalent to 2 millings semester

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This time I must prog to have it over to some company like Cates without something saying it's mine. It anyone makes 3300 million of it, it going to be part of that Cates has said the rest of PCR they have not already soid to 3300 million. This is the most moresymthat the theory for a positivit You code in heil their socking at my concode in heil their socking at my contain the theory is not come. And is not extrue without

Ottos: Couldn't they have given you a million colors?

Multis 1 said-Tiley, why cont you make if S301 saidon? Send it in the mail, t will be good publicly to you? But I'm gamp to do all right. You don't expect the world to take care of you. Assekwiny no exact in this business man are gamp to botteen life philosothem fairs on thousands. and business meaning part dropte notice and take near will grave dropte notice and take near will grave dropte notice and take li don't faire any insertment. You do li don't faire any insertment. You do to bottee and the said take near will be the said sert of the too near will be the said to the too near will be the said to the said to the near will be the near

Circle: Why didn't you charge Catas to

help defend the patent?

Maile: Josuid hore, but duth results 4 When QL horn started hore rult. I could have detrained one mission point that detrained one mission Point. The lawyer fold net the as we draw hore horn the couldnust allow the weak that work in relate sometimes have most any out in relate sometimes have most any out in relate sometimes have most any out in relate sometimes is a the interaction between sometimes and the law. A science has contained point are not exactly the same as a difficult out provides any of the law as difficult out provides and the law.

Otton: How could you imagine beleaing POR had been invested before you did investi if?

Matter Wreen 1 std term in 1988 about 1951 at the Signapoint on Custrations 1951 at the Signapoint on Custrations in the Custration of the Custration 1950 at the Signapoint of the Custration 1950 at the Signapoint of the Signapoint with an experimental or the property with medical 1 Acts total states at the Signapoint of the Signapoin

The patent had my name on it. I would're list real Lany actions for the other side, saying i really dian't invest # If show head to say I don't have it was invested balane or thin all the elements were three, buil Control have why it wasn't invested balane or that all the elements were three, built control the it was invested balane or the side of the Built I invest it really had invested it for the list time. It is hard to invest it and facet it.

Omsi: When you become noti, will you work less hero?

Multe: I will write That's all. I am looking farward to astang up in my please in Mendocino and spewing out all kinds of nonsense in my little computer. Twe got a really now science-faction move or two in my mind.

I we came a lot of factor. The best facton taxahas people someting of interest in a totally painless way That's what I di like to do more fran anything else. But I don't want to be poor

Centril: What about your iclea to sell colabelly DNA?

Multist A wend little thing, yas We are going to thy to use PCR to make certen perces of DNA of celebrities. The



class at that tear-tigeux maptic pays tills increvy to get packool swellage, a bace-Mu or wholever, containing the actual pace of a largeline OMA of assession pace like a tracks start. We just have to get a strange from the particip, pace to like DHA copy in through PED, and put in a licedus Thou cash says. There is an experied from Mick Jagger "Something to do with the gits, rays "The green's all look File activity DHA.

Omst: Who's to know that what you put in there and chicken DNA?

Mallia: The problem of altherbody is solved by the fact that I am Kary Mallis. Anyone from Tawarn who fixed to pull toff might not get away with it. We will certify autherbody.

We II also have a little collection of DNA of all primates showing evolution over the millering, for the Nature Comodry say. There are a lot of amotes.

We ve got a jeweier working on it new You could stimp the DNA sequence on the jeweity, the stimpings cares so it locks really official. If we could get permeasion to use someone like their Persity we could do a game of the month and you could have acciliacton less tempos. With down the set fun if we succeed, fine, if not no one is going to go brow

Oton: How feasible is cloning a whole human lockey?

Multis there even it a low species to we could do it in an apartment. Weld have to get a womin who de to get a species and the second s

Otten. Where do you see bology changing Ho moth in the luture?

Willis: The biological werchests will come in virtual reality in the tweffyscond particip, people will experence realities to bicarie, we can hardry comprehend them. Once we crack the right code, we will blee in this people of something and list if ower your apreal cord: or maybe go in electronically frough your finger to allew signate to be sent into your brain directly from a computer.

of the month and you could have a colfaction law stamps: Wink doing this its peopheral senses and take over, take c) directly to your brain. You will set at any directly to your brain. You will depend on will use of an exception in a webgerine, and your heaving theil No. 8. Denything you well manip theil No. 8. Denything you ever hoped for you will now leal in fact, you will be able to change into things you never imagined, because this available. Denything the set of anisations.

Marginose, will neer go onthouse, the set the set of the could set of the

Ohmit How did you come to write your 1968 paper for Nature on the cosmological reversiti of time?

Malls: Courses in astropyotos gave me tao companying descriptors of the unrenne by borg and subvivule that only it thus, those taop homoic upprotections, biocular law of actually also outside the unrenne and look at the premie that you could actually also outside the unrenne and look at the premie that you could actually also outside the unrenne and look at the premie that you could actually also outside the unrenne and look and actual present the transient of the you con tails about the unrenne actual to the second the unrenne actual to the second the transient actual to the second the second to the second that the second to the second that the second term of term of

I was at Barkeley and taking and merg week. That's what people dot for antariammer, drink beople dot for antariammer, drink beop of the second motor Tilden Park and take 500 micegame of 150 and et al doty thrieng about the unware, time going bock works and forward. Some moning is to walke up and thick I ought to write that out. So I dot

Moving between tecks is the way to be creative keep joint fragment in a lot of peer 1 do Eboeause Im ourous. I'm the only present i know who goes into a poster season (at a scientific menting) and stops of the loss poster (have no use what if a should. Find the poster low anything stable of themes and you mg/s would not "have anything about and look at the a long time, and you mg/s.

GAMES

BELIEVE YOUR EYES New illusions to test your senses

By Scot Morris

Busions are merally

gemes of perception. Here are some of my favorite new ways to play tricks on your visual censes.

The Long Image (Facenations, 18/64 Dan Mones-Way South, Seattle Washington 18/146, \$333) From the time with born, our minds are prediaposed to seeing the world furnination from above because of the sun. So what happens to our perception when normally convex objects are illuminate of from batwa?



The Long Arage uses underlighting to make a wine, conclusion bloo uppose complementation of the complementation of the the foce-the formation and top of the note-the way saning it works-the way saning it works-the way saning the works-the way saning the works-the way not say the the the the the rotate and follow you see as 30 lace that appears to now around the room. The fusion as as strong it hand not to see

Day Disease (Alpha Odyszeys, PO Box 17997, Boulder, Colorado 80308, S14 66 julus S100 shapping and handling) You can spend hundreds of dolers on meditation machines that use a strobe light, visible



through special plugged in goggles, or you' can get the same affect with the large meanted the Devicements.

Doi: the face mask and book tweet the molday can diff you over an observed with you over an observed with you over an observed in the second second second induced and and and the shuter operatives and pulsation places and pulsation of shut over an intermediate and the second pulsation of shut over an intermediate and the second the shuter over an intermediate production of shut operation the shuter over an intermediate and the second shut operation the shuter over an intermediate places and the second shut operation the shuter over an intermediate worder the second shut operation worder the second shut operation worder the second shut operation and the second shut operation worder the second s

PS Alkof (Kevn Jamos, 9822 Kotelia Anotese, California 92804 925) These in the best thock illusion ance the clease: "awkened thumb." In your whiteglowed right hand you hold a gristly human forearm. Al one and is a bloody stamp, al the other and is what applicant to be a severed hand—that moves! Los Angelias magicae havin James, who wented the Aber and uses it in his stiga act, use offers a packaged version available to the public work in a losse up. The faller several date going for your latt hand to complete the statifics elified.

Norobyly Analysians and Reflections on the Art of Antograma by Joine Langton (Harcour, Baso, Jowa masca, Barong 1989). John masca, Barong 1989, John masca, Barong 1989, John Markow, Santa Santa, Santa Markow, Santa Santa, Santa Markow, Santa Santa Analysia, Santa Santa Analysia, Santa Santa Analysia, Santa Santa Markow, Santa Santa Markow, Santa Santa Markow, Santa Santa Markow, Santa Mark

Now Langtion is publish



ing more than 40 of his work-of works in his new Whiteplay book My favorite is MNARUM-simply conwyset with a grass line and four dots. Langdon wrass well, too, offering clever and focupitul assays about ooth word subject-from SCENACE to RELEATIVITY to be aver.

Hologram Time Travelor (Secal, et excedes for \$101) 8 75 por play) This new interactive 5 D game is the bast reacon to vest is game ancade new Timo Revelor's characters are accuely four-inch-68 hotecours

Terriphice actors were finand for the parts in various stagges of actors jumping, during, attacking, dying. The acensis were then transferred to a Scry. Tail-oth valeorido, A Timtion TV monitor inside the connole failing back the acanes, which are inflacted by a parabolic menor into the space above the glass reference actore the glass

Gameplay is complex as yourtawl through time, and the scenes are sometimes wident. Pull the pointick back in time and the character Marshall time pointick back in time arms parts clear of a warms it farming arrow, more too slowly and the cowboy gets it. But the tackmicity used to events this arcacterball fluxes is a real baselforward. DO



ELECTRONIC UNIVERSE

FORCE FIELDS:

Computer sports games offer vivid visions of future competition

By Gregg Keizer

cu can't see far encugh into the future to tail if the point spread is going to work for you thin waskend, but you cansee the future of sportsif you subject disbetief

Sports may not hold scence frotion is a headlock, but three have been scene interesting matchbeen scene interesting matchael and Death Roce 2002 are two vicient antipolatoric of the future of sports, where mayheen is the norm aid physical come of the heid on those sheads instead of carriers of the herech.

Video and computer SF aports games follow that trend for the noti part apping the actor and also speculating about the future of universe is competition.

Speechal 2 Inval Celow/Sege Genese) from Avera Enterhanment is a perfect example, if not a particit geme The year is 2100 Streetbal — a rough-and-tamble

No banyo siver gama, Speetbali 2 Jeos you batlar ded guys. But you hese to use your head to play, loo.

95 C0.08

game once played in alleys bebecon gargs—has gone legit "to take over the color-dwelling Brutal Deluas, one of 15 sems in the new league, and as its manager, march is from losser to league chempion

This for the acceant in Figured, only notyper, the Speedball? Note plagen, par ade streek up and down the occut as they try to form a situal ball into a goal. Thus control the plager scheme L ball plages purchase with the overay. In fact you're go, moleculare to purmet the other plagers—you acces point when you dealed an opponent Burthough the tances play of Speedball? 2 existing on than you a basin broe barts. You have the final baro baro barts for

Sciondial' stays fait and fait out - the three must garass are feavored. Like many votes garass, ich march gasaron, so of practor, and wetchy reactions. Even igant this low provide that any star the start stagget haan, you'l then is subgit to early on Kasp at 1, and you'l muster upcount nutres. The your playmy packet, and move philip the startter garastic and you'l muster upcount nutres. The your playmy packet, and move philip the startter garastic and the startter garastic and the startter garastic and the startter start and the start start and the startter start and the start start start and the startter start start and the start start

Step National & Zero cantridge into the new Super NES game dock and find yocrael nongacross new planets in a magnatically lexited matches With down to each around pairents New Alex's Pole Postore noogene. Fizier doean't demaind nocket scientist basing juid guide Mismass. Tool expend pairs of the Mismass and rook to lexist in the too Them each them.

F-Zoro is as much a form of intergalactic bumper cars as a true Grand Price Your machineyou prick torm host each werk a dilimit performance curve - loose power such tarie it clarams of the adaptions upart relis and other case. Let the power data comcase the term of the second adaption of the second second advances of the second advances of the second the second second second the second second second the second the second second the second

If you's put the peduls to the from 'h allows' any value race game, you'll find F-Zoot tarnier Theres no grance dockering game, play in F-Zoot, but the action's etill addiction, thanks to the bump and grind between care One-you work, thanks to the bump and grind between care One-you work, the charm were thibad, shough, the charm were of that hou can gat some of the Handling the Gather Are is toggl, the instance, since it cotrees hombly:

The SNES deck may not be the Sega-kiler that Networks hoped, but it pumps out surprisingly good gruphes and is a big stepup from the blocky original NES F-Zero is a snappy example of what this avalance on do.

You can't welk away from SF aports without at least a look at one more game—Maxis' Robo-Sport (IBM PC competibles with Maximum Movement, Competibles

You team of vabots battes it out against all many as three other players in the computer's or players (you can play owe a network of conjuncts) in battes of capture-the-flag treature hurs, exhostings miscure Programeach robatter movements and there watch the across two dozen different amreas, cause blame

It beats American Gladiators hands down DO

LAST WORD

SPRINGTIME FOR NUCLEAR WINTER No need to duck and cover: ust let a smile be your bomb shelter

By Stan Sinberg

ev had neve Just seems to be-a bunch of spenprobably wouldn't deetroy the planet alter all That's nots vie only about half of us would ve

would result in frigid temperahomes and rasens tamiles, assumnuclear war was betting a burn inds. "The human race wouldn't bycome estilict, but covidation as

What a roof! Here we spend ing bomb shelters, ducking under

Stephen Schneider of the Natem ruclear water "I would call rwtich from producing radiation-

Pro-Writer Physicist. In concluhold dear and cherish on the

Arth-Wetter Physicist Up your nose with a lite hose PWP. Ob. yeab?

PWP You want to step outside? AWP Aren't you afreed you'l

As you can see, it was a brief dismade by both sides

Now that a consensus has of physicals are praity p.o.'d at Carl Sacan He was one of the cause of the way he says "billions belened everything he said. Opgan's doomsaying when they

clear it notif up. There actually thationble. The point of building a nuclear argonal was to make then computers became sophie-NASA officials out to spend all etary stacks by playing Space al group whose contract explicitly states that working on anything we we had military commandos sitbeing whether rucker Arriaged-

er vital sough like getting the ing new postowikzation guestions

In a nuclear fail, will the logyop on the trees still turn col-

Does "the end of cwitcheor ite Martien ruled the presses?

a condition of daytime darkness. can we obset it by turning the clock shead 12 hours?

If a nuclear winter does occur will Love with Bezus and Kathie

and former Sowet republics keep turning from communism the entwork to sli of these cuse are necessary to promote a reunselfish efforts of some of our energy bravely structing to such a bad thing after all DO

Stav Sisters is looking chan of bornt shebers.

