16TH ANNIVERSARY COLLECTORS ISSUE

SCIENCE AND RELIGION UFOS AND COD





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First Word Bir, John Pollenchorpe munications Sounds 10 The Research Declaration 12 Electronic Universe 14 Hooks 16 Digs By Jeffrey Heck 12 19 By Keth Harany 22 24 By Doug Stewart By Linda Marsa Onal Collee







For our subsenth bethday. Cross-explores the range of belief systema—be it senance, nilipion, or otherworkdy—that spring from the human mind as we seek to understand our workd. Over an the Seven Hard (Addinana) are and as page 1150. Continuum 36 Science and Religion By Nargaret Worthern

> Piction: Margin of Error By Nancy Keeps

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Fliction: The Fire that Scours By Edward Bryan

Time is Nothing but a Clock By George Zebrowsk

The Other Side of the Bloch By Robert Bloch A great writer offers

a supreng and memorable mesaage

By Arthony Liversidg

Antimatter 124 Garres By Scot Morra

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FIRST WORD

ALONE IS NEVER ENOUGH: Seeing the world through both eyes

By John Polkinghome

ern a theoretical physicist and a clargyman. People somebree think that is a proty add continuation, as if I had eard i was a vegationan and a bucher. Aren't science and religion at wer with each chest and eart sciander whining the bable? Which sate and really on?

Collegitesme is the author of The Fatte of a Physicist, sublished by Princeten iniversity Press. He is also college in biblion Fealuret

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They are wrong about soence because seem to facts are revere prime, unvernished observations, to be interesting they must already be integrated that interpretation requires an interwearing of fact (experiment) and optimol (theory). That the Gargen outing is not yourse to his when we understand it to be the sign of a natioactive decar

Religion: conveniely, is comcorrect with the search tor maivating belief. Faith does not include shutging ones yeas and believing impossible in higs because some unquestorable suthority talls one to do so it is the quest for an understanding of human experience routed in worsing, hops, and the history of hoiness represented by the great

Tobleve that science and religion both are concerned with interpreted fect, with motivated opinion. They are intellectual



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Science by itself could inverbe enough its too immed Ask e actention to fall you all about muse. Wearing his operation has will have to nephy. It is just wbrations in the air But we all know that there is much more to that the fall the science transfe expensions with a coarse graned not and there is much of the highest agrificance and impotance which sligs through its wide meshes

bons which ense from science many of us to point in a religious beauty of the physical world as it experience of wonder is a fundapower to understand the physical world. Why are our mode so formed that we can comprehend fewe to understand if we are to picturable world of quartum mecharace so totally different from us to expect? You could say that fundamental privaca discovers a mind II is natival to interpret this as indeed an encounter with "the ble because the universe is a crespon and we are made in the

The history of the universe, which has turned an expanding ball of energy into the home of saints and acateritats over the iter 15 billion years, suggests a purpose at work. Amountercard interlogically as a universe advected the interview of the exception and the understand the industriation of the extension advected to the classics the estimating potentially with which it has been indicaval

should be a thirst for understanding-a thirst which will never be curriched by science alone DO





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OMUI COMMUNICATIONS

READERS' WRITES.

Alien-Nation, another one for the birds. and milking the cow

verboaring the alien presence and the secret files and information is really as citing. This well out only oneg pew holds you can prove some of the questions

Jorge Torres J. Mann FL

Britishing over with New Ideas

David Brin's "Estratementral Natemass (First Worl, June 2004) unset tingly reveals the problem allows must face in making official contact with a up or puting international wartate beto the fact that our apenos would ina meanition for bed relations. If a race capable of interdellar travel wested to done so long before now. Why wait to make contact, unless it is to minimize

Willow L. Schlesser

David Birn (First Word, June 1994) attempta to equate UFO phenomena, esuntil then. I remain a big fan of

pontradiction that some of the best

Fisho Paul

Bats of a Featbar

As an ameteur paleontologist 1 found ory is perfectly plauable and solves be done on tods like Mesenceaurus record the book-first theory. Keep up

Cash Cox or Preston Po?

Apolo" [July 1994] was accurate exofficials during the Apollo years. I can make one minor correction. In diaoussing funding for the program, Bi-zony states that "NASA looked like a fat cash but for preetipe. On the incentive performance. After one confractor got its second low grade. its serior manoption of quety surrendening the connot being a part of Apollo. The 'fat cash cow" was even becarr and fatter

San Dieco C/CO

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SOUNDS

CATHEDRAL DREAMS

A synthesis of music, mathematics, and mysticism

By Jane Boeveld

I wai an odd aid apecterube went wen for a crowl uaid to the wave and audo over load of rock contents by such luminaries as David Bowse. Midsel Jackson and the correback trans of the Refling Scewe made all of global covers and atergreas the Caldedor Creano case, all of global covers and John cose, all of global covers and John cose, all of global covers and John comments of the Refling Scewe and Scewer and Scewer Case on a pool Cooper maint

The branchild of mathematician and chaos guru Ralph Abstham the concert blanded computer images and music with improvised visual affects con-



Using a repercomputer, Raigh Abraham composits the resolution of copit and of separt.

Ballida by hamiles pertormets. Somptier have to pape of early and generating altypes. That impose framework of the pape of the somethy and the pape of the discussion on the shape of the and discolve Uarg a specially designed computer called MMI Modelmentacally Lermakies Model and discolve Uarg a special call discolve Uarg a special call discolve Uarg a special to the second second second second to the second second second second to the second second second second the second relation of militeria. Ice at Pice University in Houston, whole electronic cello accomptimed the walai display, and Poor-Broadwell, samor tothware engineer at Sincon Braphics of Mountamivee, California, who disepted the concert potware

The Califordial Division here were than an the back-ori of technology and art i in many terms are provided the calimitregarding of the calimitterm of the califordial division of technology and art i in many technology and are califordial to the avert in such a maintenant technology and the second technology technology and the technology technology at the many technology technology

For Abraham the reneed of religion is essential for the granth of a vibrant "plantary cutator." The detregores, he eplants no longer work. "But we whatever has inhibited free weultion over these religions of whatever has inhibited free weultion over these religions a reveulation of religion where there would be a renewal of meeting, in this aid strate."

Acotism's spiritual journey began in the 1960s during a wakabour that bok him to hola where he met a guru with whom he spent a week on a mostistree retroat inside a cover that had been home to yogs for censure It was him that he first experenced Visual illumiators, 'Isiapetho communities and inBight in the Arter Ark Week onlighted by the result of the Ark Week onlighted and the vibrations repeted out in connention carries strike a believe and a fix whether in severe a decard and the vibrations repeted strike and a fix durate in severe a decard whethes incoording to have result onlight the result of the collective inconnectus, the oder and withsaming of the collection of the collective inconnectus, the oder whether and the works of the works and the works of the works and another works of the works at inconnectus, the oder were a mothermatical basis for the whatein measure of the other works of the whatein measure in the works of the end of the the other of the works of the end of the other of the other works of the end of the other of the other works of the end of the other of the other works of the end of the other other other other other other end of the other other other other other other end of the other other other other other other other other end of the other other other other other other end of the other end of the other other

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By the 1980s, where introvetorie enabled the use of digital equipment in Aschistmic experments with Vesual music. This work left tim to design the INNEI and later to Carthedre' Crearies and the hope that vesual whereans designed in mathematical formulas can be same to the pulsets.



THE ROSWELL

TIME OUT A call for accountability by the U.S. government By A. J. S. Bayl

ould you like to know if a flying Mexico, back in 1947, as many UFO bulls now con-

part of it by signing a popy terrestrial intellinence.

the truth, setting the record knows " says declaration author and one of the occanto the White House

position or belief, but a request for a change in the law.

one way or the other." Jet-



personal stand on ETs, with

Various UFO organizations throughout the world Boswell minators has been gaining support internatonally especially in Great heard All sloped forms need

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part in this proundswell for laretion, Omni Magazine, boro, North Carolina 27408 We will forward all of the ers so your yoube can be to be returned to Omn by November 30.00

THE ROSWELL DECLARATION

orly-seven years pool an the United States that pould have by the U.S. military of material althe U.S. military on July 8, 1947 clarming the material was nothing more than a weather balloon. It

was Major Jesse Marcal, the in-

On January 12, 1994 United

sure that the truth about Roowell

and written into law. Such a meatial candidate Jimmy Cartes years ago in 1976

If, as is officially clarmed, no straight price and for all Years of be ended both in the eyes of the

Roswell witnesses are telling the

I support the request as outned above, for an executive order deplemiting any U.S. government information receiving the exception of (#Ch or estimationality) minimum Whattay auch information exists or whother it

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ELECTRONIC UNIVERSE

THE INFO SPACELANES. The Internet sucks you in like a black hole

By Greop Keizer

puter networks and pertraps too temping. Twenty reflere peocould say "gleizer@rain com." to the breaking point. What well and pull up a bucketful? Or maybe by:2

Getting on the internet is tough, unless you're lucky enough to with America Online's Internet wert looking for an Internet acrwould get me a first-class connection in exchance for acms lock down on newbies like me for

bottor, I got connected after find diel, but i needed an arsenal of software to get betware me and mands (Using UNIX without a the time yours in doop muck) I (WWW. W.3 or just Web) browser for my Windows PC. I got a Go group reader, I even got an E-mail program 1 was armed for

time out. It was as if I had pulled

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Lataried to get imredient for Mosaic look arms to bill be services with all those graphics. So I used oher II only showed menus and fists of items to read or download-no pretty pictures-but i cele my way from a computer in rease gov and dug up all kinds of details about the Hubble Space logi I was able to hed serveral Ike clips snapped by Clamen

Even that wasn't enough 1 NASA's daily updates Then I moved on to ac/apace, a the partial eclipse sust past I fell photoed in pilot of the in-crowd

many people I hadn't talked to or skimmed only a peper-thin layer

Next month It gets even Assider to mail away from the kibeen abducted by UFOs DD

BOOKS

NUMBERS: Calculating the mind of God

By Anna Copeland

It an dd debate. On cre sdo sanda God, parfector, Hei ofea, the underlying patien of the unwerse. On the other sando human eigenuit, He mabreal wordt, and cur pen desee to understand by the invertion of analytical tools. The arguments are familier excupt in liberary or philosophical studies, whitre ideas, awash in language, spill and tumble with each other.

Etscovery ar investion: a look al same receat basis suggests that there is a let of the in the old clobate. through the centunes But his debuts penetrative even the most acber abstract bon---the language of numbers. A cold at some moorth publications in the history and theory of mathemetics suggests that the old debuts has

In 8 The Story of a Aurobe 8 Merch conclusion of his history of a number live. If an The shadows of the even-popular a, formes the question neaey. There of a CO his interest, those that are most important to mathematics are located within liss than four units of

the number line A remarkable coinci-

dencer/ A mere detail in the Creator's grand design? Tet the reader decide."

To help the reader. I recommend taking allock at a ocupie of neural taking allock at a ocupie of neural taking John Mit and Parking and Being (Dottod University Press. 1962) and John Mit andre Autothoda and John Mit andre Autothoda They Shape Our Lives ("Swoet Columtons, 1991)

Barrow, a British estronomer

ergapse the reader in an explotation into the nature of methematos with an impressive analy of lockal and ameciatel evidence that spans centures and cultures. A grance at the piethna of epgrantie-moliciding quices from personal ads. Spins Agree, Emberro Eos, and Musim sayingsthat mathematics inclued reflects an underlying, cosmic, and con-

riecine design

Uncer the barren of Pattore, deality alon of mathemated alon of mathemated alon of mathemated along al

discovenis altern trail "our ability to create and approhend mathematical structures in the world is manify a consequence of our own oneness with the world "

John Noliseth, an eclosatoral psychologist, has a more downto earth approach toward the history and meaning of mathematics. Just as Barrow structures his inquiry to reflect the comes dimensions of mathematios. Moliaid attochase has work becure the certral content in them experiment. He investigation is organized chicrologically and concernities on cubure leaves emploited of becomerries, such as the accent Stument and because in the accent Stument and because interactions or the leave of them content stumpt the records native chicros or the leave of them content stumpt the second native chicros begins with a forcer, McLause begins with a problem. The bells us, "thirden periparative tools to do the periparative tools to do the second stumpt of the second problem."

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DID JEWS DISCOVER THE NEW WORLD? Intriguing artifacts raise guestions about North America's history

By Jeffrey Hock

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Mysterions erilacts or e clever heas? Schulaes romels divided en the eristes of the Explices (above) and the Decelopes Some right) food over 100 years ope or Native American aschiWindle fand the stores wate scoreining score of the huge earther mounds that dou't the Amarcas Nederal Mest teamarticles Nederal Mest teamarticles Nederal Mest teamtics be the previous conticities that the score of the Networks Ned attention of the Networks Networks Ned attention of the Networks Network

A supporter of this theory whick once access the Kay sone, the first of the Hay Stones, in Juan of 1860 which digging hear Novem's 50 acce Octagina Nound A vedgethapd0 pace of sandstrine, he keyston is insorted on all four sides with Hickness (hist reads) the Laws of Johanh The Wood of the Land, Kaig of the Earth, The Hay of Haven's Wyrck, and the Hay of Have News

The discovery mick headinco as far owny as New York Cry, but shortly affect the Koy some was described as a fair problemed that the Nebbew was boom codem for the store to be asthemic Determined to redoem himredi and his theories. Wyock and a small exceedance pary des coverend in Newshort 1990. store box in which lay the peace of black observe On the bord of the stores of peaks of the bord of the stores of a peaks to store of the store it excited in a style of Notinew Sound rowhere dis bottor or since, is the name of Makes. A condensed version of the 1% Continenciencies is artoribed in this unique Hobow on lowy surface of the store laws autione of the store

A lot of thought were true the production of the store," sup J Hallon McCalloch, a professor of coorners and Chic Balas Linwestly who became on influed by the stores and hall be larged the Peterwal phabet to attack the better. The letters are evenly appoint, not casemed to make it of the total event application of the reading of the Commandments at the exact point that you begin.

When I look at the stones, two things strike me," says Robert Alruz, now rented from Denson University who, kee Mo-Cultoch, behaves the stones to

be genues. One the tones difer in the type of writing. Orals more typicod than the other, a soil of longehand. But more importainty the box in which the Decalogue Stone was found bortisine takes for no apparent trade correspond up in themtrade correspond up in themlogether by correcting. Who, if half going to take screeting.

The Holy Stones, however, tail, every possible inchaedropical total argues Stophen Wellams in het 1991 lock, Fantaste Archaealogy. Their interpretation are freonly cons of their kind shown, and the forms are not opsignifcally convect for the time parad. They are gonume Hebrers kinds, he asks, why are they not a socclusted with other a ministra of Chief.

Based legges incheoologist and current currator of the Newark Earthworks, also has problems with theories chemical that the stores were produced by the arcsent Habows were proson in the America them we should not evolve on the settiment. Issues, under the stores were protable to the settiment and evolve of the settiment and the setter of the store of the settiment and the setter of the store of the setter of the store of the setter of the setter product of the setter of the s

Who, then made the Holy Stores? Lepper believes that the Rev. John W. McCarty who translated for Wyrick the test on the Keystone overright led the effect to craft the stores.

Today, vacors car waw the Holy Stones at the Johnson-Humchkuzen Nuesum in Costocter, Ohio Da more antifacts like them lie hidden within the Nawark earthander? Protectlythe mounds have yet to be systematically escanged **Do**

STARS

HE MADE THE STARS ALSO. The Vatican's astronomers combine cosmology and theology

By Victor Dricks

Advanced Advanced Technology Inte-Scope on Artizona will How the Charch's astronomers o page over forther into the mysterius of the A contract Graham in exclusions Allocate general speaks, exempter accose a clearing the Ban Carlos Asserbe the conders secret Surrounded by dense vegetation, the Wanahin new 35 miles lefecces stands like a modumet to mail braikes faccoper ton with the heavens Like the Native American boffer than a handhil of Jayut priets wate come to Macrit Garten to por-

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the scientific community," says Martin McCarthy, a Jesuit astocomer for 35 wars.

To do the, generalize donce there for manufal the Vaccinia astransmitted to Vaccinia astransmitted to the vaccinia astrotantes, the same interned of the Vaccinia Advanced Bohrocogia vaccinia astrong as a stransmitter were call to reported based astroced to reported based astrotantes astrong astrong astrong astrotantes astrong astrong astrong astrodia astrong astrong astrong astroal astrong astrong astrong astrong astrong astrong astrong astrotanta based astrong astrong astroal astrong astrong astrong astrong astrong astrong astrong astrong astrotanta based astrong a

The all/officence's fave allready put ther new telescope to good use. Costally for exemptiotis strucying a small group of states their appear to be old, although they reaids in a part of the stry where young state abound. The Weburn Observatory director the Revenient Gaorge Coyne users the feloscope to peak into stattisming reapose in the comptellation of Cassicpela, The Reversed Richard Boyle is working with coleagues in Lithuana and forme for sholly a copulation of stars in our own Milly Wey galety, using a technique called photomotry, which measures the interacty of light in addition, the Wackin permits outside astronames to use the observatory.

"The Walcan astronomers do first rate work," says Anzona. State University astronomer Peter Wehinger "They are very fortunate because they are supported by a well-funded organization that approxiates the quest for astronomed knowledge."

Wilcan alabedema timp to the react form ingoing tables of globs in discretoring, and by all globs in discretoring, and by all societations and the series of person in table control time participations and the series control time to the series person that the relation of the common time with other and been that they find it dears to been that they found they construct the table that been that they found they construct the table that been the table to the series of the table that been table to the series of the series of they they found the series of they they series of the s

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VIRTUAL REALITIES

NAKED NET.

Contessions of a cyberiunkler four hours a day, full baud

By Torn Dworetzky

aptain Weldo's E-mail was over stranger So I celled htm right back on the net "You acund kinda strang out," I said

"A little problem," he clicked back into the privite room off the lobby of the law forum: "Can't tak here. Jump to the Eighteenth Street BBS, encrypt and TI get year then."

The BBS was a local united, towif to bullerin board where snothes—dealers in info unitand hot tojecretits—would log or locateg for a meal if wush to place to use a real handle i started up the encryptor. Woldo and i had socialized the key Crocoldia, come time ago. Onco lorange and into the encryptor and in the time the time register of the social social is the time register tak protectly freety. These why it was fleate

"I gotta see you in person," he typed in

The restaurant was dark but when I finally got to the corner booth, i realized Waldo looked so bad I would've barely recognored her acreasy

"You ve been using old im spesion the wre." I said

"Had to Look at me I'm hocked " he blurted out. The nets getting me Sometimes a week passes and I don't know



what mus Liki nodeg through the general charaktery suit the otherent points of vew Like tired everything to quit cold-in-that listed initi a clay-initiation of over three-looked my computer than founds docorrector i ever three-looked my computer than founds work-around. Hous, days, nothing else mailter-mot lood, neil people indiing Linny five in natifies what thoughts mode work of house at light apreed-well, the insermut boughts and answey

"I'm No one of those lab rats whateking the law in for more drugs until it doe," he larghed dryy "Its really bud I'm just a junke bud I'm gorna break away this time. Tomorow I'l be clean his point out. Can't pay for ontime anymore. Got to marky for net or food."

"How'd it get to you?" I seked as supportively as I could

"Working those virtual crittee scatterics. I was in them all the time, choicing out time or that, foring bugs, monitoring to see that the bail gave were too buey on the origine administration to brain arrow".

"Couldn't you just leave it on a or?"

"For awhile, but then the

dever secure wood the games and got lice. They sounded transhiming from the crans every to the next social, stealing creats, unring scams, pretending to be propile they worked. Anarchests The crity way to keep up with them was to play ther carries 1.

"Weldor," I send limsify, "You're my friend, but junkes lie. If I shift aredits, you'li just burn iem up an the write."

He hostated, defated, looked away then back "Screwed up I ckd. My own damred fault." Waldo was starting to slobber

"TI buy you chimes," I said I get the water, ordered, and gave tim the money for Weldels meet.

"Est this, try to stey straight for a tew days, then call ma." I got up Waldó would have to face the angularity of his own off-ine experience without mo

At the door I glanced back. Alone in a corner, Waldo canability book the hand-hald netman out of his start pocket stopped on the glasses, and adjusted the wratstrap guider.

Don't Weldo, stay with me a whele," he said to no one in pertoular "Sony Cantricht now."

Learning back into the corner of the booth and silking down until the head resided on the barquete. Weldo field into nettime ha one would bother him, and he would bother no one. It would be uptilise he wasn't there DQ

Got seventing to say fur no time to write? Goll (396) 285-1461, Your comments will be neorotical and may appoar in an upcoming issue of centr. The cost for the call is 35 certs per menute. You must be ago 16 or clifer Touchtons phomes crily. Sporeced by Pario Entertainment, 505 South Bewerly Drive, Suite 377, Illewely Hills, CA 302012 He bried overything to goth-timers, atarms, outersatio discornecto-bei he was hoaked. He was a nething junket.

ARTS

THE WORLD ACCORDING TO GUMBY. Don't be a blockhead, lift your feet to the Gumby beat

By Keith Harary

n a precarcup colvent our of precare assessing, our of precent hero bainthe has evil done in an isoprelight sword clusto the dash. Ar Colvey's representive anneated clay presiden from the frittees. Swords, is standing his ground in his biggest adventure yet, Owntry, it and birrings the seathetics of facibility to a head for a substratione word.

Gamby innotently works the more volgen minimized sources and But head or Ran and Strong more compaling about he solvenures than the reaches manual arts vocompaling about he solvenures than the reaches manual arts volocor of Thereage Mostant Maga Kattike or the endless-loop pictlines of Wile C Covoise lability

campaign to capture the Paadourner II Satucky moming a populated by two-dimenaional characters condemed to repeat the reductable patterns laid own in mk. by their creators, then Gamby and his pails are from a d'frietent time and plaza and made of more creative suff.

The world according

clover, we an intertrapprogram for Cokey Sumby is the unaffected drease before and the hence child in every add? "The help dem message" he says. Is that appreciating family can provide deeper magify nois how we experience rootify beyond the perceptions of science"



Neverthesis have a motion overty principation almost the hereat in or here. The surveyors a limitation of here. The surveyors a limitation of the surveyors and and range to be a capacitor and the survey of the survey of child assessment with the survey of the surveyors. Survey Dawn and and the survey of the survey of the surveyors because of the surveyors of the surveyors because the surveyors of the surveyors because the surveyors of the surveyors because the surveyors of the surveyors the surveyors of the surveyors of the surveyors on surveyors on surveyors.

The ongris of Gurdy are o synthesis of thoughs and imoges from Art Clokey and and anchild, Clokey misrueled is a photo of his farbar aporting an enormous cowtob--he belowed it was a acids bump. The belowed it was a acids bump. The belowed is associated with wadern by Buddhists, later inspired the ancular inspire of Garrbyshevit.

Zen Buddhist philosopher Aler Wats once told the Cickeys that people could be cheracterIzed as other "Pricky" of Story" in the exostal nature, timering two of Camby, issues pois a rigidy nature, and the story of the story of the angle and the story of story

Most of the more than 200 dumby sploads are writen by Art or Glernis Clokey, mastly based on stores told to there dudeer. All are produced and duinded by the Colongs and timed in parasitating, frame by-hame thimen tioned - an imachine mettil intern tioned - an imachine to apply to make imachine entertion and the spload and the come a standard in the sploadeffoots arem."

Generative in the state here here. Generative is presented on a budget dearby is presented on a budget dearby is a constrained on the state of the state of the state of the state here the state of the state of the state here the state of the state of the place with prace by Global College Gamby at its able in the worth of presentationary and global state Gamby at the state of the state of the state of the state of the Gamby at the state of the state of the state of the state of the state gamba is able in dearby the state of the gamba is able in dearby the gamba is

Given the more rigid constraints of the mandane world, perhaps an occasional Gumby righ is pat the right thing to remind ourservice that reality, acrounding to Gumby, is feetble DO

more than 40 years, Bumby and the pany take to the big screen.

WHEELS

GRIDLOCK TERMINATOR: Neural nets predict the traffic future

By Steve Nadis

The Manta Falcor's general the Georgia Dome winds down at the same there the Havis way up that mesh at the Oner, just a few blocks away. More than 4,000 cars pour onto area within 10 minutes. If a nothing short of a minutes. If a nothing that at blog place in a compare Placeton the short of the research is short.

TERMINUS is the first satio control spatial to use naive hetworks, parallel computes har, minas the basic structure of het human been. The program was obstated from software organally designed to help minates or takes had of (mitaryte orwhan) takes do (imitaryte orwhan) conversion President Christian is taking about." sing project diwerter other Jamma.

lights keep a right schedule, oblivices te concestive; smart systems will use neural networks te product gritisck and belo bead it of.

TERMINUS includes two results respectively. A set of the granular respectively on the set of the provide the set of the set of the provide the set of the

TEHMINUS is trained to recoprice the symptoms that lead to gradieck and then to thy to head in off in advance. This is possible owner to a special feature of neural nets there addity to learn By exposing the network to enough traffic scenarios, it comes to identify the telfation gaps that precede corgenition.

Here's how it works. The computer is comprised of electronic units, neurone which ewitch on or off depending on the inputs thay receive from other neurons. Each regul, in turn, sepsents the miniter of case to a given stocked of read The inputs to an individual marcina are multiblial by a number called a weight' and added together. If the sum may not an explored individual a public to an explored. When certain continuations of naucos sight up, that means threads can patient call the means threads can patient public site to program of the ane public site to an explored public site to an explored call the means threads can patient public site to explore to public site to explore to tables to the site of the main thread in the trade of the main thread in the trade of the main thread in thread in the main thread in thread in thread in the main thread i

The ultimatic test cases for TERMINUS would be the 1998 Altarta Olympic Games, which Gimme calls the "baggest millio chalenge of the 1998a". Before the Games begin, the oty hopes to have in pleasi the most adwanced table-management syswanced table-management sys-



tem is the United States. The project will rely on a powerful computer network to integrate cannol of tells on highways and surface streats in five countes and the ony of Alanta. TRN: the aerospace firm over-

HW, the averaptive tim oversering the project, will install an well allow various state, county and boal agonos into currently have instell communication capatibilities to average traffic to constrained and the state to constrained and the state to average of the state ward of 'Instigent' vencio and hydrwy locitoriage to be valiated as they become availties - TRAN-US a among the software packages under comsoftware packages under com-

While wailing to chook out TERMINUS on real tifte city streads. Glimore is striving to risk the stread stread streads and the stread stread streads and stread the stread streads and streads and the stread streads the streads and reals. Nex so the modeled attreads the stread streads and streads and the stread streads and streads and the stread streads and streads and the streads and streads and streads and streads and streads and streads the stread streads and streads an

Ultimately, he adds, 'yeor's feet to know everyonite destination 1 All that information could be plugged into a giant, control corrouter like the one TRW is assending. There we have no enand traffic lights for the errors reand traffic lights for the errors redening to the basis possible scalar, basis, and the set of the scalar scalar scalar states and the scalar heat the scalar sca

AWARDS

THE IG NOBEL PRIZE Some researchers campaign not to be nominated

By Doug Stewart

Source of the committee unlarge maximum committee unlarge model work? Size heart how may never work? Size heart how may never work on the lig Nobel Prize, granted to those few whose achievements, in the works of the committee, 'cannot or should not be represized.'

Two paul winners of the ip Nobel Prize fer Peace. If bomb developer Edward Teller (al right) and formers LA police other Eavy! Cales. Named after Alfred Note's distant ocurn Ignatus the Ig Nobel Prize is co-sponsored by the MIT Museum and an inevenent scierthic journal, the Anneke of Improbable Research

The Ig Nobel commitee belows procethis year on October 6 at MT--across the full

accelerant provide a construction wave, plane particular y means that could be particularly means that could be the particular of means and plane to the particular of means the particular of means and plane to the particular of means the particular of means and plane to the particular of means the plane to the pla of an acceptance speech "

The caremony takes place each October before a reacous crowd of more than 1,000, inoliding a smattering of woods-be honoroes. The on-stage VPs include a pixel of octby choses digitaries, among them a number of perune Nobel laurestee, all wall as a tond-beaver a herr-

> Ise, and an umprethe Ig Nobel Prizzes aren't intended to redicule asys Abrahams, who edits Ansist when not orches in top hat and talls. To make sure a prizze won't popardize a bons hide researcher's career prospects, Abrahams occessor.

ally sounds out prospective winner's in advance. We have people actively compared in to receive an lig," he cays, though he won't name names.

Jay Schillman, a Muchgan akethraid angware, is one of Nobel winner ann obah faat the tanga Schillman the means tanga Schillman the means of AutoVision, a hoskep hall lea pople drive a car and watch thr at the same time. The committee deemed this watch of a space award for watchraft of a space deemed this watch of a space deemed the watch of a space deemed the second through a set of the watch of a space deemed the second through a space of deemed the second the space deemed the second tanga deemed the second deemed a space of deemed the second deemed the second deemed the second deemed tanga tanga deemed d

Others can't will be come to Gambridge to delivar acceptarce speeches Among them, these unicepts responsible for a detailed research report, "Acute Management of Zipper-Entrapped Pents," has appared in the Journal of Enerments Martisma, Turyears upo, Narl Genrar Foots dispatched 30 employee in a corporate jet 60 pick up the chamitry practice for is invertion of Silus Jall Or all were bungt matching to the silus of the matching of the silus of the matching of the silus of the committee for the optimized committee for

The committee relax on Arrais readers for nominations, which flow in from around the world. Many paople nominate bosses or scouses More than a fire, says Abrahams, nominate themakes "Bot her islams band to have mespelings, so they reminationaly deguathed Tool

Krow a sciencia whose work is of la hose caliber? Send name alfalaion, and a linel explantion of Why ho or the is of early the science of the science is not a science of the science la hose hit calibration (1) Nobel Pitter Corrent Ne, bit NTI Measury, 256 Missochurder, Are, Casthorige Hirrat address (2) Arthority and Not marke with Dan't worry Not marke with Dan't worry Not marke with



FUNDS

HIGH-TECH DETECTING: The case of magnetic fingerprints

By Linda Marsa

I wai a storte reft out of a pressi finishi instrument of the store of

The sechace entries using a simple dowed that startifies the unique imperprints of objects cardiar anging from charge cards computer diska, and all beates types to security entry cards, exploring passiegs into computer haltencia, and even wreatings.

Magnetic fingerprinting could vertually eimnate credit card haud and counterfeiting (which costs consumes merchants, and benks more than \$1 billion a.

> in the follow scanners capable of reading magnetic frageprints may be built into ecorything form home security systems in

yeer), enalicate inclustrial espionage, danset bootlegged megnetic recordings and make it impossible for even the most nimble electronic outlaw to pilter information and penetrate prolected networks.

Indeck, who's on the engineering faculty at Washington Lowensity in St. Loue, was trying to understand what causes media holes on recording. This mightetic signal clutter uses up space and limits recording density and helter.

Ministurization is the touchstone of the information revalution, so indexis werted to find a way to eliminate or carcumvent this noise so more data could be solutioned into the same more.

Ho know that information a superimportantly topics on superwhitever stands median your topics of the topics of the superior of the superlation of the superlation of the superior of the superlation of the superlation of the superlation of the superlation of the supersuperlation of the supersuperlation of the supersuperlation of the superlation of the supersuperlation of the superlation of the superlation o

This signature --or fragepritt-is parametrix embedded in the structure of the recording medium and because it is o this in the wave of fibera in a place of paper, it cannot be abreed on opied. It waved take thousens of years to latercale a successful forgen," says indick. "Nobody can all there with tweevers a course humdred anapteme. wide"---one angstrom is one tenbillorth of a yerd---'end put pertoks down one by one in exactly the same way '

Index optimum extend the significance of this discovery with the textual meeting in Washingtor. Since the physical mocrostructure can be read by a conventional recording head, the magnetic frequent is easy or identify with vessily no possibility of mettaking one for another. Index realized he had shumbled onto an ideal magnetic security drive

Large convertients cords and minimally include cod reaction the unque signature can be abial interpolet on the mispingle stripe on the back of, say, a condition of the signature call barris that can be accessed as centry to an ATM. So when your card is aways through an additional call and a stripe the condition of the tension the call of the tension barris day to the tension the angle to the tension the tension of the tension tension

The potential applications are traggering. In addition to solve garanting anxiet, cuests, this techrology could be used on solver contra toosal security costs driver and is boxes, any contra missi traver is a support of the solver are a magnetic identification strape. And with health care mtimer a magnetic identification strape. And with health care mtern on the findure, this could marries the findu use of health costs which in Donesol, is coretly a \$100 mito-rese.

And than there are the immediated of a computer watards who purison PIN numbers by excellapping ATMs and use the numbers to pull of electronic hetes. The the garpentis may even protect ussuspecting heighboart from the profit delivery of prix furnings and new newseas BO

ONNI ONLINE

WANT TO TALK ABOUT IT?

Omn Online chat sessions range from the serious to the silly

By Holly Sregelman

ne evening rat too long an out were a country and a gath and an an out gath and an an out gath and an an any The convertisation screached to a half as every one's attention focused in a inition during out country of the during out the second and any The convertisation screached to a half as every one's attention focused in a inition of the second and an antion of the second and an antion of the second and an antion of the second and and and an any second and provide an and an any second and an any second and and and any second and and and any second and and any better any better any better and any second and any second and any second and any better any better and any second and any second any better any better any second and any second any better any second any second any better any better any second any second any second any second any better any second any second

Just another typical Seturatory ingt on Orm Magazine Celvie, Dorsk assa on Arasinza Orlen. Exercise assa on Arasinza Orlen. The Seturation of Celvin Seturatory of Bas Noti Celvin Seturatory and any every regit of the wave in dis time chain consist, overrain seturaany every regit of the wave in distinany every regit of the wave in disting of the seturatory of the even and business. Overrain seturadark formsing, ourrent accellen even, and business. Overrain seturatory family and accentration of the busine of the schedulor, takking phone family means aveal and of the

Each chet session ima a heat to biespihle chet from warmg bot far off hen toppe and is environ to the other toppe and is environ to the other the observation of service which obtains the observations of the near the observations for the observation and the observation before the service service service staff council and a contermine is service service staff council asservations and an evitermently inservice(specific the torners Watters, who gives by the torners Watters, who gives by the torners Watters, who gives by the torners watters and an and the torners Watters, who gives by the torners Watters, who gives by the torners

Watson subjects the heat candidates to a rigorous. 20-hour training assesson. Before 'gracusong 'the transes must demonstrate their knowledge of everything from Terms of Service to the contents of the last Citric, as well as their hosting ability.

The mean control part of recoming is managed in thighting conversion without being either too quiet or take eventuaring, aid control to Watson. The backhes the hosts to exercising the dacases without backoming the bould of the control ball. The hosts bould of the control ball, the host balance and providings," the costs a definistrue feel to a that the methode provi-

In soliton to the second secon

The science-locial/terrage offsets, by contrast, have a lightbearing their with the hosts offset hosting their chas in imaginary locations, such as a hierdry teren "Thin not park invaring the based but being enthuses a diference in the index", applains distant Nathan, who hosts both telence fisher/terrage and telence fisher/terrage and seather chas is OMMOusel.

Thomes in all the Orres Online

chat assists vary from week to week in science-faction/fartfasty chets for example, recent seasone have covered authors from Larry Never to Anne McCartrag, as well as ideal casts for tim varsions of favorise books.

For Antimatter and UFO chast, 1 try to pick topics in the news currently. Sowald oxys Record sessions have cleast with the face on Mars and coverage of the paranotreal by fabload TV news there are cleast without and the

Whatwell the topols, Ormi Orlino's chat existence in the order of the topols, or the tak real time about a subject you're interested in which pools all over the county who are also interested in the subject "Of

Const Bollion's 15 active husts has a clistilissi style, which influences which influences which influences chatters and no discussion *The Michibian's Sande to the Colory or the role* of womm in science influences





CONTINUUM

FINDER OF THE LOST ARK?

The lost ark may rest in an unlikely spot. Plus, our planet's getting dusty, and how to prevent back inuries

Could the fast ark of the convention-the actual ancontrol theor inno which the convention of the second second second theory and the theory and the second second second who makes the case for the Ethopen of the second sec



Ethiopion hely mon provide clues for the recovery of the lost ork. Sentary B.C. when the second s

Arwan, During the seventh

possibility, following leads from northern Frence to Egypt sub Softwarer Arrises and the Middle East, theraing the data of the results of the Middle East, through na exhibitioned togoperance summittee theraible, and its uneightend disopperance summittee theraible, and the uneightend the Sharri Mary of Zoon in Asses. Etherais where Harroch Rahmen I treats todor.

Collection is a first years the Illinear claim to fire for again chronic short on Again (concern) the signal of the ather sorring in Throps and Caropaser replaces and the ather sorring in Throps and Caropaser replaces collection in personnel of the methan among the Entropy mapping three scars, were a church of the throps and the again of the signal and the scars collection in personnel of the methan among the Entropy mapping three scars, were a church of the collection of the start stars and the scars of the based and the scars of the start stars of the concern of the scars of the start stars of the concern of the scars of the start stars of the concern of the scars of the start stars of the concern of the scars of the scars of the stars of the scars of the scar

The Assemptions to take how Mentelly, our of King Solmon and the Dupon of Sholds (in Ethappan accoring to the othernoid), thought the six back with him four Aurushim, and this lais working bacepted by the paople of Ethappa. According to Hamook, the legand's and thereas in the table and the subscription of the six brought to Ethappa, to take common break the end of thereas on the Providers Barrier of Etechnicity, near temple was classroyed, and the Jews of the island resen to have variabled. Hancock believes they carried the ark south slong the Nile and into the highlands of Ethopia.

Hence on exclusion and of the research in the one of the second products of the second products of a surface of an an approximation of a surface of the second products and a first second product and the second products and a first second product and the second products and a first second product and the second products and a first second product and the second products and a first second product and the second products the second products and the second products the second products and the second the second the second the second products and the second the

Win rist, Harcode makes a prety persuative coomany of the particular and supported by independent interfaara—but unless the Elfrequent allow researching to somme the object they guard and closely. Its opecultions will be very difficult to prove Hancock admin the Nacase in a coorplation of strong creatificational dehances and the coorplation of strong creatificational dewrige action invedopation to optimal to the thet —ROBERTY of KUL/STPTP

CONTINUUM



Studies of facial muscles will help people with surgically reconstructed lice lines the passion in their losses

A KISS ISN'T ALWAYS

The kills has enclarated marce and parent of senarative and parent of senarative, such as the contractive senarative sena

LOCUSTS CONTAIN 31 PERCENT MORE PRO-TEIN PER POLIND THAN A TRONE STEAK

Plastic surgeons concents that the movements of angrainty reconstructed lips look inconstructed lips look inconvening piovided the impetus for the study. Conventional books on anatomy have depited a two-dimensional, doughnutintepid ing of muscles, and the source investentiation of 80 clearation basis, invested much more contains of 80 clearation. 16 pars of muscles corverg-

We found how the poortern of these matches charges in relation to each other, whether for a smite, a poor or a less, explaints plastic surgeon Blance Sassoon, a member of the research sam at the time of the investigation. This handh bein approcised ballow. After the repaining corelation, everying looked free where the potentia were calesp, but they might not be able to use ther moutine way well where a werks.

"The information we now have is potentially useful for operations for cleft (jos skin cancers around the mouth, and faciel peraly as " she adds —hor Smuller

APE OVER MAZES

A 12-year-old bancho chimpanzee named Kano has become something of a baccher's pat at the Lain guage Research Conter of George State University because of the university of the university of the university because of the university because of the university because of the university of the university of the university because of the university of the united set of the univers

Psychologist Susan Sawage-Rumbaugh hopes to laam how much of Kana's destryt will a cystock comes from mathem luck and how much from an ability to plan the reough sheed to manauvier the target through the mazos. She tumod Kana loose on mazos after he kept page with a two-war-obj grif in experiments that recurred both to respond to option English commands Scon, Karus localiz combine abstract symbols called leagrame, to tel researchers whathe wanted--food TV or other activities

The lexistern expen-

THE RING-TAILED CAT IS NOT ACTUALLY A CAT BUT IS RELATED TO THE RACCOON.

ments involving Kance were performed under rigorously performed bondbinns to snaure that the spowas not being influenced by werbeil cases or simply responding or rese conditioning. Kance bouildn't see who gave him commends, and each sentence was new to him. Kance must environ



Video game champ? No. video game chimp?

sion the routes available to his target in the mission, and the ability Savage-Rumbough between as related to the planning abilities had of to construct tools and levgrammatic sectorioss —Genore Noble

30 CMAN

RED ALERT-YOU HAVE MAILI

Collect Murphyls invention seems to strate that sin was amazed to learn from the U.S. Patent Office find is one had seen riverhed a matoox alert system gab learn broks an inderowen is an indepowered, spring system that works like is hatelfrom missage light—secopt hers to by you when your boar certains mail.

A similar investoan tan wes from the box and howed them that in alarm dock the asys Her dock the asys Her dock the asys Her dock on however needs to make the size of a TV emplet mountail e sisted the matches whenever the door opens, it ends a pulse to your house or againment where a buzzers



No more badging out to the markox ox times a day to see if you've moreweat a letter from your badgeed in Alaska – a new electronic system will alier you when the mail actives

sounds for 10 seconds and a light goes on unlil you hit a reset subon. The teg nai cames about a quarter of a mis, enabling it to reach most country houses or penhouse spartments The Mar/Vert, as Nurphy dubbed her gema hes met all the requires postal requirements Murphy, who kies in Easton, Connocrout came up with the idea whan the field of so many faille trips to the end of her longish christway. At the moment, Murphy is still assign a financial backer to help her lounch and merufacture the dole to market the Mai-Alert to consumers for shout \$50.—George Noble

MAMMOGRAPHY GOES HIGH-TECH

A digital manimegraphy imaging system that dispersions with wray first stogether could revoursonge the diagnosis of breast cancer.

Table the goal at a transparse 128 million collaboration annowing soerfarts tiom Laboratory, the thready of Roman and Pacher Imaging in Danvis, Colorado, Ting Salleve thior treasmanging cystem will produce clearer images using loss analizer, allowing more accurate and the very loss analizer. breast cancer, thus naciae ing the need for in-

The sight-detector

array, which uses sophistidevelop (SCDe) can moved all million chicked a posisi resch 30 times umaker them the pational time on of the software the one of the software the one of the software the conlexities of the software the patient software of a patient patient software of a patient patient software of a patient to a software of a patient the adverture of a patient the adverture of a patient the adverture of a patient

fol system is that if gives

Index past intract better manare of result down table of the very subtial diffectation in contract in entrydape learns, particularly in dama francistic support president, Lavermoteory mell developed the subtracting for weapons also Some their way into approximal the CDS have also Some their way into approximation that way into experiment and for subvartions of the substances of the version is some also whereas campones

Digital mammography has other tangible benefits Georges claims. One of these is the use of computor assisted chaptees to help scentrate boots supplicate ansate the boots to sup Another boots to the bochmacys in the advity chapter will have to har small mapped to prevale local tarse will here information suppling they to provide intermergraphy services for runal areas

A chinical prototype of the degraduated brug Administration approval, should be ready by year's end and coald be used in routhine chinical studies in a half-dozan medlast authors by hold year. Beorges says

-corporgré Nobble

CONTINUUM



Chuto the breeze: A rocketlaunohed system saves planes

PARACHUTES FOR PLANES

A company called Ballistic Recovery Systems has developed the utimate in anouth safety systems a huge parachute that can safety lower a whole plane to the ground, passengers and all.

The planes don't usually come down unsaghted, but the people do't save Can Johnson, markening man ager of the St. Paul, Mannetots, company the GMBD or general assert. To Sta the same the same the same same peural Casert. To Sta the same when displayed from attudes as to was 300 heet the nose gase generally authors the only domape

The 43-pound system opinisties on the aims phraspla as recket propelled system seats on military alcraft. In case of trouble the plot just pulls a cockpt ar. that lever, and in half a second, a roof mounted rocket, with a 1 7 second burn time, puls out a pressured deployment beg containing a 1.900 sequencifical right canopy and susponsion times The chude huly inflates in about five seconds.

The company is working on systems for larger, four-east a rend weighing up to 3000 pounds and GARD, which has wen FAA certification, occid one day be used on much large arcraft, according to Johnson, who robus that NASA has long used provide that is now "150,000 pound shuttle robie!

EVERY MINUTE, A HURRICANE RELEASES AS MUCH ENERGY AS 400 20 MEGATON H-BOWBS.

"Theoretically if you push out enough cicht, you can recourt anything " he says, explaining that one square tool of nylon can beer one pound of plane. Aiready used in ubraight and kelvaut planes, which do not require RAA outfication GARD has saved 77 lives in potentially fatal senatories. Airese chains

The system costs just under \$5,900 for a Cessre 150, with installation points adding another \$300 or so. --George Nobbe

TAKE MY BLOOD,

It's a notion that Count Dracule would approve of Loaing blood regularly may protect against heart otheries.

When this body losses that, which the Cody network on a long to the Cody network on a long the cody network of the Cody network and Conten in Charleston, and Conten in Charleston, South Caratine Theole with life of no stored ison are less grants to hand? database says 3Juhren, who cogned publisher who cogtakes and the histopothesis in The Lancastin 1981. Wy neosatch suggests stored ince is an extension stored ince is an

catclengists published in late 1982 land weight to his theory. Researchers observed middle-egad men for five years and lound that those who suffered hear attacks had the most started up. Investigators concluded tills a risk factor for corrensry heart disease."

The articlate is simple regular bleeding. Not a big bleed loss, similar to what women of childbearing age experience through micromation." Sulfwan says

Early last year, however, evidence amerged that second to constrain this hypothesis. A Harvard study datasetted no Ink bebeen elevated termin levels and heart attacks, rolt seem to support the ison heard team. If your man sgator Mair J. Exampler "Not we cannot rule out a modest effect. In any cases, there doesn't seem to be a large increase of heart stacks in people with high loands."

But that's missing the whole pool of the hypothesis. Sull van contence "Avecaring the imagnitude of the that hugfornin confers won't tell us as much as intering out have people with law or no fentim do. Hav do they compare ito people with high levels? Are they protected?

Unit research produces conduces routes Sultway says, people may want to lower thair tainsid and lower thair tainsid and lower tain tainsid and lower tain tainsid therpasse may ordinat thersalves simply by dorating blood under modtail supervision. In fact they may lower their risk of heart statist to the lower of a menaturating woman during the retrief wears."

Densiting blood three times a year should mantain doal formin lovels, Sullivan adde — Im O'Bren



Donating blood may protect applicat heart attacks



CONTINUUM

THAT DARN DUST

It's been confirmed. Outerspace inveders are landing on earth by the trillions

But they/an not existence release longs, Rother Pay to thy eshakenosthal doct particles dropping to exist hat the rate of about 40000 tons pay rain frame eshaken comes from Univerend Bathey Low (toward) and Daniel Brownies, we will be University of Isawai), and Daniel Brownies, the University of Isawai), and Daniel Brownies, the university and the long Dunation Experision Paid Spectra Among Paid Tel Spectra Among Paid Tel Spectra (DBT)—a statement Paid (DBT)—a statement Pai

Love and Brownke analyzed 13 LDEF panels whose surfaces ponyled directly into space. They identified 761 impact creaters formed when comme clust particles slammed into the panels at velocities of about 27.00 miles per hour By measuring the states of the oralisms the tesearchines determined both the risks of influx data the scates of alling particles, the balk of which measure have the milliometer (one thousendth of a mear) in demote and weigh less then one hundred/beusouthhof a over

This is hysical year almost at this weight of material failing on earth is in the form of small, submittimeter data. Love any a Bry compartion of a site when of forms per year. With this sitewish seady draze of data, place the occasional muid dia metocres our planet access to be gradually putting on more weight

However, it's loang aome weight at the same time. The earth loses some matter when upper-somosphere gesses, primarily hydropen, drift off into spages. This gesseue escape adds up to only about 50,000 tons a

A STEAND OF HAR IS STRONGER THAN AN EQUALLY THICK STRAND OF COPPER year according to rough baculations by University of Washington planetary acenfist Conway Loovy That may be enough to balance the restanced 40000 toos

T'S A REAL PAIN

An increasing designed wavesafebrinks a socker right in the lower back comparisation claims that core to present a socker half of the core to present a social social of the social present and social of the social back of social of the social back of half of the social back of the integrated social social versity is bodynemic a bacnutley could reduce and working conditions could put them a risk of



of incoming dust Leovy says the gain and loss are currently close, but that may not have been the case during earlier epochs." —Save Nacks

Invertiback problems. To complete the enalysis is a worker must were the harmssiles device, marsend by the Childmoogn Group during the working day. The four-pound dework is a schemat to a lighton computer that records data received from sensors make parky should have

"The sensors provide time-dimensional imption analysis of the spine, smoet is those muscles that are most brook sigures." ways the Christianooga Giscupt Ect Dunity. "They record each motion a worker makes and its effort. on the lampas tenne".

The computer's schware compares the workers' twicks and turns and then veryog speeds to a databases of new profiles forloss-forware the schware (bbs--hostiling multies in an subo plant, for example, or lifting causes of scda at a botting facility

Commissionly high poline would along employees to be redisergned, any Dunky, adding that a midwetter to bothing plant and anveral car manulactures have done just how — Genzen Mobbe

Tapping Into spiniel analysis may provent back instrum

SEIZE THE POWER OF MERLIN

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ts to errated in a spelbuckagney work authorized and authorized by far international Arthurite Society

Wenn's Grinn Bui Hengs all the resume, and engine of Cannots to your fingerings. The crystal cells, portholic to the fature, is correlated by four deragents, herefaire symbols of Arthur's family—the Bouse of Posifragen Rich droppen is antienty sculptured in fine porter, builded to a reposited linear on 34 locating pold decouplants.

The crystal bell is mounted over Arthur's golden enviro and flexy red crystal cubochans enhance the regal splendor of this drawatte showynece. The wold provter base deputs Arthur's shireld, no well as those of 12 of the fabled baights of the forem Table.

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00925-NES	
AT	

MERLIN'S CRYSTAL BALL





Dupped the Westworthe Alex means the second balancing a persearch visua of the Principson Bay, make, Robert Russes in staking to the graduate students about a conjunction of another sort. He meeting of finalizing and cosmology and the common ground intered by accurace and religion.

Risself, a ganty spoken man whose boyon ocks suggest conselected/wwwithin his 47 years, as both a physical and a trained they doptim flomany people, the stee of a physical inactogian may seem like a contradiction in terms-attier 46, we have in an lige whos 3 is easily believed that the only possible relasuppliar paleways counter out integrate a count of any Estimation to observe a supplication of a supersal that connects in a govern body of hereinging a supplication of the supplication of the supplication according counts have not accordingly. Supplications according counts have not accordingly by the final is open to according the supplication of the register and bacterial provides a supplication of the register and bacterial provides and the supplication of the super-bacterian of the supplication of the register and bacterial provides and the supplication of the super-bacterian of the supplication of the transfer and the supplication of the supplication to the supplication of the bacterial descent (TDBD)

PHOTOGRAPHS BY TOM ZINBEROFF

in Berkeley, California, the leading international center in this interdisciplinery teld.

Located on the gast and here/correct of the Bondwide here/correct of the Bondwide here/correct of the Bondwide here/correctly and the solution of the Bondwide solution of the Bondwide solution of the Bondwide B

In many ways, the Canalatan Theology and the Network Sciences was a response to Researce one personal history As a graduate physics student in the Sevenities his had the potential to be a findtools spential if only he could jattsion his Christianny Ignoring such advice, as the

such there have paring a matter is paring the control to the title material also assist any part is a matterial of dense of the material also assist any part is a matterial of dense of the material also assist any part is a parine to the there are no the second to the RN II is paying the matterial of the material assists and the second to the second of the material as any and the second to the second of the material assists and the second to the second of the second to the second to the second of the second to the second of the second of the second to the second to the second of the second to the second of the second to the second of the second of the second to t

Assetti instaino, however, an positive to the more design a service prime in the loss of scenario technicity. By way of another, Russi express with a statistic technicity and design a service prime in the loss of scenario technicity. By way of another, Russi express with a statistic technicity and design a service prime region and technicity of the region of the statistic service and the work, last opposition. The satisfactories of addity variated a scrude service and technicity and the statistic factories and the statistic service and the statistic service service and the statistic factories and the statistic determined here and the third in detail and the posts of the details and the statistic factories and service and the statistic service of the statistic service and the sta



atternative to Jerry Falwel: " The American public must be able to see migrous thinkers who are neither opposed to nor ignorant of, science and its depoweres."

The rectain that religions to accurate sally antitheteral to accurate sally antitheteral to accurate sally antitheteral to the sales and but any the sales and the sales and the sales and but any the sales and the sales and the sales and but any the sales and but any the sales and the sales and the sales and but any the sales and the sales and the sales and but any the sales and the sales and the sales and but any the sales and the sales and the sales and but any the sales and the sales and

Historically, the separation or competition between science and religion is a rather

Exceptions conductivement the contrast of the diverse management areas in the contrast and the divert diverse manual for management divert diverse manual in the diverse diverse diverse diverse diverse diverse manual for management diverse diverse diverse diverse manual provides diverse diverse diverse diverse diverse manual provides diverse diverse diverse diverse diverse manual provides diverse diverse

However, area Newton, the relationship between the two outures the service/of destretyparts Carthary to what meny popular informs would have us bekens, the split between science and two extend dates not date to Galito 64 to the Engineement. Namery Muphy, cheer of the CINS could an associate prototional of Crestian philosophy at the Fully matching and the service of the science of the transin other to keep religion expectable in the science of a part information referenced theory in such a wer that

This Month on World of WONDER

Thursdays 8PH cr/m

SEFTEMBER 29

Blowing up the Dunes Hatel. Plus: a parret with a 100-ward vacabulkery & a city that may be older then Bobylae!

OCTOBER 6

A world record underwoter dive to 410 feet, Plus: the Rube Goldberg castost & re-mopping the world with The Goosphere Project.

DETOBER 1

High-toch odvonces revolutionize tropical exploration. Pluz the mystery of sevents and on "inside" view of Old Faithful

ocrosek 26

First views of "living color" electron microscopy. Plus: Delphin family groups 8. the Tecomo Norrows Bridge collopse.

CTOBER 4

lenifying footage of eerthquotes. Plus: Beath Volley's mysterious Devil's Hole & Nanocco's "meeting place of the dood".



Socials became revenues to 1,1 "nonware references to the start start many haven's organism content," in memory and haven's organism content, in memory and the start start start in the start in other works, refigers ware detaution executed from the scatter of an execution in other works, refigers ware detaution ward alternations from the domain of memory and scatter start in the organization of the scatter start start in the start of the organization of the scatter in water built be factor to be scatter in water scatter start and the scatter in water scatter start and the scatter in water and scatter start in the scatter start in the

The score particip states is seen as the integrant to lead of the integrants and of the integrants and of the integrants will be integrant to lead of the integrant state is stated as the integrant of lead of the integrant and the integrant of lead of the integrant state is the integrant of lead of the integrant of the integrant

The stream travering learns to fishe approximate the stream of the stream of the stream opport. These is no monet of provide the stream of the stream of the stream providential dary. France than being an obligh beaver. The table is no the fish obligh beaver. The table is no the fish obligh beaver. The table is no the fish oblight the stream of the stream of angles in the organized method the tradition of the stream is stream of the angles in the organized method the tracomponent of the stream is stream of the angles in the organized method the company of the stream is stream of the stream stream of

One of the Center's most if utilial relationships to its origoing partnership

we example the control of the contro

There has post of wow of fails, they may be a set of the set of t working within the natural processes revealed by contemporary science

The property of the second to the second to

Similarly George Ellis has used

protection consisting of the units the above the second s

Guite apart from the psychological need many people teel to integrate the two outures, there are increasingly ungent practical reasons why the religious community cannot continue to grows accords Hore the reserved field in deterministication and provide the deterministication and provide which is non-generating a micrositewise of deterministication problem of healty and their heavy and provide the test and their heavy and primiting the test account field the second of generating account field the second of generating account field the second of generating account for the second of generating account for the second of generating account of their works in the test three in a posterior of machine the test three mices information declaration in the test three mices and account is set to the test three the response community is understand what the second for succes is and the test of the test of the second of the test of the test of the second of the test of the test of the second of the test of the second of the test of the test of the second of the test of the test of the second of the test of the test of the second of the test of the test of the second of the test of the test of the second of the test of test

Paters is a sal, losse-imbed menwith a related memor and easy grace that is more excessive of the single that the public both si voor was underably made for public speaking. Deep imagine ha must deliver a thriling semen As a professor of systematic heelogy at the Pacific Luthara Theocomercies of



Every Thursday 8 PM ET/PT.





FICTION BY NANCY KRESS

MARGIN ERROR

Yes Walk CAVE BACK IN A BACK OF GLOW, HE INSTITUTE INFORMATING THE PERDOWNING WIDAS CREWAND BRIGHT, HE STREE STRUCT AS AN ENCONCERED DIXXOLIPITER RCD YES I FRAME HER HEED CLOW COT IN STREET A CHILD ON WIT WE STREET BOTTOM FORCH STRE A CHILD ON WIT WE STREET BOTTOM FORCH STRE A CHILD ON WIT WE STREET A CHILD ON THE STREET A CHILD ON THE BENSIES CONE. THE SKIN TIME FORCE IN CONSTREMENT RS. YAS BUT I WOULD HAVE KNOWN THAT FACE ANY WHERE YEA NO WATTE YHRA SHE DO TO BUILTINGTON SY ANTIA KINZ "Karent/" Hor voice field disberief "Paula," Letect

"Karen?" This time I didn't answer The child, my oldest; twisted in my arms to eye the vestor.

It was the kind of neighborhood where women sat all morning on paches or stacps, wishing children part poeled, small front laws were spaped base by test and incycles and platfor wolfpip pools. Women lived a few doors down from their mohiers, both of their growing having reary year. There were few men. The ones throw was few men. The ones

said. 'How did you find ma?'

"It want't hard," Paula seid, and I know she dich't understand my smile of course it waan't hard. I had nave internated it shrould be. This was undoubledy be list time in nearly fee years that Paula had looked.

She lowered har perfect body onto the porch steps. My little gift Collie, gazed at her trois my lap. Then Lollie opened har copped hends and atmled "See on from lock?"

"Very most? Paula said Sho was trying hard to hale har contempt, but I could also it. For the sed impresented frog, for Lolle's dity face, for the wom ward, for the way i koled

"Karen * Paula east, "Um here because there's a problem With the project. Neve specifically with the initial fermulas, we think. With a portion of the percessentialer code from five years ago, when you were . Sill with us.

"A problem," I repeated inside the house, a beby waited "Just a minute"

I set fulle down and wett inside Lon origin in the only file disper method i put a pacifier in the ringen and oracle der in my fait am. With the only Weth Teached Termy from this only Weth Teached both bolos back to the parch, dispectial Termy in the polyacity and ad down see in Prule

Lolle, go get me a diaper, honey And wipes. You can carry your frog inade to get them."

Lollie went, che's a sweet-natured and Paska stared incredulously at the twins 1 unwrapped Lon's claper and Paula grimaced and shid farther away.

"Karen are you tatening to mo?" This is important?"

"grandes mi

The nanocomputer instructions are

45 CARS

COLLECTED SIXTIEN FROCS FOR YOU BOILED EGHT OF THEM. THE OTHER EIGHT WERE CONTROLS TO REDUCE THE ARGIN ERROR

Sec.

of sometive. The major routio check out, obvicuity. The major routio check out, obvicuity. The model mail spectra over the major routio. The but have allo one odd foldings in the presenation of this breefficience and in the second second second second second call the second secon

"Also" Posta continued, and I heard the status in her vace, "there are some untraverseen missicalevel developminats We're not sure yet that they're sud to the nanocomputer protein toids. Whet we're trying to do now is cover all the variables

You must be working on fairty remote vanables if you're reduced to asking me.

"Well, yes we are Karen, do you have to do that now?"

Yes I soraped the shit of Lon with one adge of the solid diaper Loties dianoid out of the house with a clean one She sai beside me, wringpoing to her frog Paula said, What I i need what the project needs.

I said, Bo'you remember the summer we colocial log/? We wree maybe eight and see. You the become fiscenated reading, about that experiment where they thew a log in boling water built i propositions to boling users built and propositions to boling users are not only any to color water and them hey pot a flog in cool water and them send each demember?"

Koren

"I collected alotsen froge for you, and when I found out what you were going to do with hem, I need and toed to let them go. But you belied wight of them anyway. The other eight were controls I II give you that proper scientific method. To reduce the match of method. To reduce the

Karen - we were just lede

I got the clean ofloper on Lost. Not all loss between live that Losis doesn't hat you would have that would you? Nobody in your set has children You hould have heat a body. Plast's "Ste benety his is not all body. Plast's "Ste benety his is shader. But then most of the popple we know list the arms way. She aud. What this popper needs a longeu to come body and work on the some small area you do come's body. ing for something—anything—you might have missed in the protein coded instructions to successful gen-

"No." I said

So take the celular renormationery out." I crumpled the stinking disper and set it out of the baby's reach Closer to Paula

"You know we can't do that! The projects mevarable!"

"Many things are inversible - I stad-Lon started to tass I pecked her upopened my blasse, and gave her the breast. She sucked geneoity. Paula graneed away She his had national ensay in har particet body making it parted, for the years now the breasts will never look sweften blas verned suppring.

Kanen listen

The proving issue () and pages () and page () and page

I don't think trivial childhood incdents matter in

"Of ocuse you don't And I never minaed Bull (ad mind when he years ago you made copies of all my ridae, and peasented them as yours, while I was so cack chining my programs) with Loffle You clamate my work. Stole it Just I ke the chamsely set. And then you eased me off the protect."

"When you did was so remor

"If it was so minor why are you here asking for my help now? And why world you magine for hell a second I d owe is to you? She stared at me, cel-

HOW TO GET CLOSE TO AN ADANGEREI SPECIES WITHOUT BECOMING ONE

A local first from the point and induction is the summarian data and the initial states and the second states and the second states of the local basis to be a second state in the local states and the local basis of the second states and the local states in the second states and states in the local states and the local states in the local basis and streme from the states and the local states in the local basis and streme from the states and the local states in the local basis and streme from the states and the local states in the local states and local states and the local states in the local states and the local states and the local states and the local states in the local states the local states in the local

For a cryst of Mater's Topage, July color Gasle in Observing Right and Other Huldlin, and 52,50 in Nature, 199, Ser. 1998, Comp. Park, Ch.95300-0 00.





Larry Rivers, Art and the Artist Presso, Write, Levers and Offspring, 1992. Countery, Marthorough Gallery



Bob Gazzione, Time Wanter at a Roord Table, 1962 Courtesy, Ambassador Gallenes, Inc.



Josef Lew, Still life with Maxies and Rapharl II, 1991. Coursesy, O.K. Harris Gallery

"ART AFTER ART" SEPTEMBER 27, 1994 – JANUARY 1, 1995



Tom Wesselman, Shill Life and Taxo Onsagar and Lichtensian, 1992. Courtesy, Sidney Janis Gallery



Roy Lichteristein, Hail, 1980. Private Collection - Red Grooves, Bel Two for Resolvatory, 1991. Courtosy, Michorough Gallery



David Hockney, Parale orfe Upfinglied Backley, 1980. Courtesy, The Virgima Museum of Fine Arts

NASSAU COUNTY MUSEUM OF ART ONE MUSEUM DRIVE, ROSLYN HARBOR, NEW YORK 11576

sulating. I stared back coolly. Paula wash't used to me cool. I'd always been the excitable one. Excitable, highly, unstable—thats what she told Zwebar A decurity rais.

Timmy fused in the portability is up, still many funce, and socceed him up with my fixes arm. Back on the stops, I juggled Timmy to be across Lon or my fisp, pulled back my blouse, and gave him the other breast. This terms Pauls divin permit breast a ormsport.

She said, "Keren what I did was wong Linow that now But for the sake of the project not for me, you have to

"Nou are this project. You have been from the first moment you grabbail the headlines every from Zwedjer and the others who gave them life to that work. Lowly Young Escentral lepids Salf Wah Perfect Cell Drug? No Saonhoe Too Graat To Circumvith FDA Shoresphechoss. Hinner Researched Dackers"

Paula and flatty, "You're jealous You're obscure and I'm farrous You're a moss and I'm beautiful You're

"A milk cox?" While you to a brillant researcher? Then solve your own research problems "

This was your area

"On Paula they were all my areas 1 ded more of the basic research than you did, and you know it. But you knew



watched us with big eyes "Mammy

Its okay, tonay Morriny's nat mas al you Look, better calch your fraghe's hopping away."

She shnekkd happily and dove for the trog. Paula aard softy, "I had no idea you were so angry after all this are 'tou've changed Karen."

"But I'm not angry Not any more And you never knew what I was like before You never bothered to know."

¹ Knew you miver werked a comthe life. Not the way I clid You always wented lacts Wanted. Alls 'She waved her arm around the shabby yard David let eighteen menths age the adds money its rever enough.

I wanted a schmitte votabilityment that would let me have both. And I samted could for my work I wunled what was mine. How did you do it Paula-end up with what was yours add what was mate ao?

"Because you were distracted by baby shit and frogs! 'Paula velied and



I saw how scaned she marky was. Peaks drift make admission like that A tacted error i waithed her sist obsperability for a way to retain the advantage A way to secare the offensive I is accord a first. You should have left pue should have left me David Our manage was never the same alse that '

She said. "I'm dving, Karon."

I turned my head from the nursing balaxies to look at her

Th true My outsite machinery is arrang wild. The nanoassemblers are chaiting word structures, destructive arctignes. For two years they rupticated perfectly and now. For two years a all performed exercity as it was programmed to .

I said, 'It still does '

Paula sat very shi Len had fellen asleop 1 juggled her won the portacrib and nested Timmy mere comfortacib on my lap. Lolie chased her frog assent believ bewere blue.

Paula choked out, "You programmed the assembler mechinery in the ovaries to

"Nebecity much cares about women's ownes. Only fourteen percent of college-educated women want to muck up their lives with leds. Recent oursey result Loss than one percent menor of work."

you actually sabohaped hundreds of women have been injected by how, maybe thousands

On, herein a reverser enzyme. I sed "Competitive effective (1) you take of before the twelfin-generation replication You te the only person that's been injected that long. I just discovered the severale is diversely and thereing with my cid notes for competing to do in what you in most probabily call my cide domessic priser. Thesh provides incidensate what is not a normal most most and the All in the several and the several and the All in the several and the several table. If the several is not an an and the several priser the several several and the several priser the several several several several several table.

Paula whispered, "Scientists don't dotha

"Roo bad you wouldn't let me be one " "Karen

"Don't you want to know what the reverser is Paula? Its engineered from human chorence generatinges. The programcy hormonic Too baid you never writed a baby"

She went on staring at me Lollie straked and splasted with har frog Her Ips were turning blue I slood up, laid Tirmiy raid to Los in the portacrib and buttoned my blouse

You marte an experimental error beenty-live years ago, 1 sad to Paula, "Too small a sample population Semitimes a log surgis ou!"

I want to Yt my daughter from the warking pool DO



[&]quot;So much for the good kie."



n March 21, 1994, New York's eleven o'clock Evewitness News ended with this pious tableau: A solemn, modestly dressed Egyptian immigrant family and their friends crowd an apartment in Bensonhurst, Brooklyn, all of them staring up reverently at a glistening copper icon of the Virgin Mary. With detached amuse ment, the TV anchor announces



that this icon, which the Boutroe in Caro, is weaping of tears. The caroona cuts to an excisi: bearded figure as a behop of the Copto Orthodox Church, a sect of Christianty haling New York audience then a miracle has indeed occurred

Back in the newsroom the TV kind of way. The story was clearly ness of He in the Big City What the news team didn't court on, however was the tremendous longing for religious experience-for first-hand contact with the miraculous and diving-that is driving people across By April, the icon was said to have stopped weeping-drapping a Weapt workship of the fails. ful continued to come Most men the marely curious, crept up the aute to the roon as if it were give fured, stand before the icon--a dollike head of hammared copper,

We have the holy oil from the pilonms," pays Father Mina Yenni, prest at the church and a compact buncle of energy with a gray beard and merry eyes Indeed, visitors this "blessed" mixture, a thick, greenish liquid carefully placed below the icon. Ofwe of was added Yona explains, when the ceal to a massage from St. Mary. She wants people to have good relations with the Lord 1

But Brooklyn's oily meacle is just the basest eruption in a volcario apparticits involving the Virgin Mary continued to galvanue thousands who percented in visiting the property even after the local beingp issued is statement declarang that the vision will unproven at best. In the end personal sign to keep people away reported at \$2 Eigebeth Ann Setton Catholic Church in suburban Lake Ridge Virginia There, a young askedult poest. Fr. James Bruse developed stomate-the bleed-rp farthful statues of the Vircan Mary wapt, people were healed, and rosaries changed from steal to gold

Tesus and the angels have option into the set as well to record people have reported seeing Josus Fostora, Oho, on a formica tabletop Atlanta, inspiring the moniker, susphets savior " Angels, meannew industry, with sales of angel books, celendars, and viciao tapes Waquoit, Massachusetts, group 900-28-MNGEL None of this should believers abound. Eight out of ten

What on earth, or off it, is going expectatly those involving Mary, are most sinking for the passion and themenves. Valt the abe of a Mary vision, and you'll find people years-

This mother and child reunion versity of Kansas and the author of nothing less than "a quest for the pristine order the world has abenally behald the appareton. Mary ta seen as a tender and concerned Zinders-Swartz "To the larger

reacty to bettle the forces of gvill mystichi experience sometimes used religions we have today."

Daul Kurtz, charmen of the Com (CSICOP) and author of Transport (Prometheus) sees the trend as a quest for scientific knowledge promise is held out for an abelify people will flock to it." Kurtz seve auspicious of their political leaders every motive and utterance. But when it comes to these appendices

MARY VISIONS: A VIRGIN IN THE SKY WITH DIAMONDS Article by Tracy Cochran • Apparitions of the Mother touch the faithful and haunt the landscape of Suburbia, U.S.A. • Illustration by Marvin Mattelson

and these visionaries, they exercise no skeptorem at all."

Yet 2mdate Swartz teels that the trigely popular tend of encountering Mary like other migrous movimants of the past whould not necessarily be wwwidi migrous or liveral terms. The phenomenon, she says, shows slow the and believers alike the limits of their and believers alike the limits of their and believers.

These Marian visions have long chillenged un beeks. Is the beek devices to the involves / beeks devices to the involves / beeks involves / beeks / beeks / beeks involves / beeks / beeks / beeks involves / beeks / beeks / beeks / beeks is / beeks / beeks

O' all the public appantions of Mary, however, the agriling in Fathma Portugal, may be the most mysterious and the most revered. Indeed, Pope John Paul II has actually credited the "kady of Fatma" with serving has life when he was shot.

The most dramatic of sevanal makes agghengs at Petrus, occurred on October 13, 1917, when some 70.000 people stood in the pouring

In the watch three displated uniages who ware alleging sering Mary. A global particle of house exhibiting the control of house exhibiting the parado are a flat, silver due the audency baryood towns the each and stopped juit inform of creating, then and stopped juit inform of creating, the ment binance of built as arrangeand watch reported by the hasay concerned by the control by the hasay remain of meetingstop, the Cashhole Church management for table as of all has displayed by the hasay classes and comported by the hasay classes and comported by the hasay

Penaly, the most most and perhaps the most contravenial approach to fail total the entravenial approach to the local makes as approach to the degond. a timy monitaintop usings in Borna in this remole was-weary approtack valuement have been peering and receiving messages from the Wrigin Mary for a decade To this day, plights brave tockst the to stream into Medyagoge. And one man's plightinga in the late 1906s opened the door tor Mary in a mas unlietly place—the substan community of Mattborn Township. New Jercey, land of split-levels, swimming pools, and bitseven cells.

Mary first appeared to donesph devascretweet in the Mitholo back paid. Juint white dark one mght devascretweet in the Mitholo back def Poler margenetic valed out of the bioresynt diskout of the Middons' derigt first white was hovered above derigt first white was hovered above derigt first white was hovered above dark first water was not been above and the particular was and the appendix and particular water all and part index (was known of the darkand at the particular water all and the hover and particular is darkand at the particular back and hove emitting Ime for the portable tolets that a devout balan man had devand. And they stood in the to pray at the Medoma status inside a belies and deverse People with pine boughs and flowers. People hugged and greeted each ofter in low, exclude volcas and ingered reported and prayed with owe sourceard divid

The playms locked like the range of popole you see in a mish young parelis in shoe-washed jeens pushing societies, allow museular guys in undertind lockes in crayon-colored secaltists and region hole or permet white hair. They all watched the sky se it turned a clope celesal blue.

"You heard when happened last right, droht you?" asked an elderly ledy in a wher cablehilt cardigan. The econ solit in two."

"We didn't hear about that," said a women in a windbreaker snapped up to her chin. "But leat sme we sain a big colored ring spinning around the sun."

It waan't until darkness fell and

Sartozzowe z cala bis shrine however, that a forozet bowever, that a forozet creat "Loop's look over therat Do you see it' the showeng goal" 'A consent and another scream and hundred or frashbulles otatod popping of, amed all the TV anternas over the house amed at the blue spruce foce amed all the dars thermolyos "Look at the planes" See 1

Finally in 1992, the appartum that comprises calls harself the yallow one of peece" instructed the decout graphating immigrant who worked as a circitiana to tal other what he was seeing. She promoted, he reported to depair to him after dark on the final Sunday of every month daruat/severy

Though January Network related to talk to the prose, in a suburban altar was open to all. On the barry Jave events I visited had bared the toated toawing packed had bared the roads to paring to discourse packet to coming an blueshot of us walked two relates barry and barred to bare of the relative termine the toated of the relative termine the toated of the of altareauto them.

It was still tight when my hueband and I got to Januszieswocz's yard. The scene had all the palpable excitement and anticipation of an outdoor concert before the show.

People sat wating in rows on blankate or folding chars. They stood in mover hat in the back, an old working was prevention taken with her arms, stretched out live a cross, har paires open to the sky. When it was over, thouand a field of al-most service to the and a field of al-most service to the and a field of al-most service to the swinging flashlights of Mariboro Township packs.

It was the light of faith that led some of these pignms from Marboro to another great Amencan suburb, Lake Ridge Wigns, Thore, in St. Etosbach Am Saton Church, statuse of the Vingin are stad to waip in the presence of a young, imog-lopped, mustachood prest Tubes James Rinse.

Doubt they be weekeng for the confact hotsen the cool of Like Ridge, where people chine loury cars with mobile phrees and become the trend doors of their next colorial and ranch housian with werefare of berness and height finded the houses and any methy phrnetwork and and a were motive poincition that servers at code with the index variant landscape.



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Yet it was in this buildneed-own commany for Desetter 1901. That it is wriste and text Even control to the text or the name cardwoil presets and branch french creak while was happentered to an annex with the text for the supersystem of the text of boards approximation of the text of boards approximation of the text for the supersystem of the text for the text of the text for the text of the text of the text for the text of the text of the text for the text of the text of the text for the text of the text of the text of the text for the text of the text of the text of the text for the text of text of text of the text of text of text for text of text of text of text of text of text of text for text of text of text of text of text of text of text for text of text for text of tex of text o people and the cat was out of the bag

sands of people have concereded on, the church horizer to cee a obtainwing or more we a blease glice. Father Stras. As the peaks, minotes were reported to absord. Valent, were seen to be heated and whereales are the optimum gains associated with May association and in the previous of Father Brows, counties strains of the second state. And in the previous of Father Brows, counties strains of the second state A counties and strains of the official a for proving a in graduate to straining with airst)-could be counted on to were.

The balany spring Sunday Lattended mass, the space modern church was overflowing with people holing to age the four foot righ Madonne beacle the alter weep or catch a glimpee of the bandband wrate of Father Ruse.

We don't live in Jesuits time, when great Roman armies surrounded us and we had to watch what we set." Intend the beams Farlant Daniel Hamiton, who challenged his corgregation to go out into the world and "bear witness to the turk of the Lod".

When the service was over, how even a small crowd flowed out not to spread the word, but rather right down to the siter, to the Madorma with her arfibral flower crown. "She halos ma fault God is presence " said one welldecised women from New Jersey who had been to Martboro as well.

Stending institute charact members knowly hild, a spreby middle-legad homenular with a posit-had-andrepoper bob, notice that the Lake Reigu per bob, notice that the Lake Reigu per bob, notice that the lake Reigu back to church "land I think that's perty next There and bob in skepts, no that not quite docuded about what " in who's vegoening, and I takents to be, it is because God had to do some that we via gotten to a porter while that sev a gotten to a porter while that one us gotten to.

The Church cell has whithely upper ment and, have 50 mm, has delivered a noncommittal response. Indexd, the Churchevy of the Docales of Anington Docales of the Docales of Anington non with this causous attention. In this particular actions that the the more at the same than an index of the particular action of the the mode at the struct Association to be mode at the struct Association of the mode at the struct Association of the cause on forming updgments and accause on forming updgments of the sociation in forming updgments of the cause of the struct Association of the sociation of the sociation of the struct Association of the sociation of the soc



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reported events

The garded view was not shand by the post at the trip Copic Church it's George hersonium. Bookyn "Erth of a minola, "sume from Mark Y annu a plot spare in black nobes and a neuro black hat, "how copied the at here gatern there? This a message test Bt, Mary who wants all message test Bt, Mary who wants all

Follow having seekaned towerd a medale aged vornan with a wide smite and have the oolor of sunstruck copper who was standing in first of the icon at the upstains after. Take to hec," he seld "Shirts Romen Catholic but she correct heat eader day."

I can't halp it i live her She's too beachtij the worresh agnose, her asoart winsge Beodyness. Her asoart winsge Beodyness. He word whete and tan, her oon depart the Medame formen gu between her detail hourth four and the oblected of the superstanding of the beacht of the superstanding hourt beacht of the superstanding hourt beacht of the superstanding beacht of the superstanding of the Western, as pale and deficiate as a porcelin del

Locks can be deceiving. Father Yami loads the way to his office. He holds out a neebook that contains handwritten accounts of personal mandes attributed to the westering. Madores including the amazing story of a man who expensional relief from the pain of his social after he rubbed his back with a coltain ball dipped in the only term.

I point out the regulation of a recent test, conducted with the blassings of the Church asd, batter this ison's droping of had disoppeaned. The "holy" legad had been a form of vegetable of, in had been donemened. Could it be, if ask Fother Yann, thigh the tas been the value of feed?

He closes agree 1 am not a victim of traud," he tells me "I saw if with my own over. This was a mission."

Yet investigator Jon Kickel, antroor Looking Ark Minacia (Horumahaua) and a membar of CSIGOP, has massed jakeny of proof the life fitted theory may teld water (real d), allor altheory may teld water (real d), allor alcolamis of weaping (contare proviheaves), any Nickell Their aire counts of ways i can be done but the employ and control contront wile pair to apph fluss 4 ambs done but the employ and the person patiential to apph more Of may be used instant when because i table (toget

Margover, Nickell says he has tried repeatedly to meet and examine the phenometron surrounding Father Buse "Lect meave after movie and got no regy any Nodell Them will no neighpartic cubie investigation of any of hits phenomenon. They refused to it is now how Could nee it it weeping status so we could nee it it would be used and any of the whole thing, including the stagmate is external executed.

THE PLOYER TO VER . CALL

"It someons alloges a miracle, the burden of pruch to on them," says rick all thus they won't let outside investgators examine the statues and the starmer. Why?"

While No/ed concodes that some appetitor-related phenometry and a suscent state than flacost hose (am a Pelavad One Step of the sea nord you may get a photo of a "golden door"), here in humfed at the golden door", the Mentoor 1 cell if the Medugores you " he laughe "this a social comson, and nor be findnered.

What's hightening about this pilot insmired according to Nickell and other onlice is the sometrines savage way believer listed of avaptual insury "Credulty cose not diminish with eduation," any Nociell "People like the penderverse si bit Einsteith Arn Sakon Church may be oducated to be very assoring and skeptical in their work.

ISIC AS OF COMPUTE

ARTICLE BY ANTHONY MANSUETC

CHEER WHELS OF IGHT OFFICE OFFICE HIGH DESIRT AT NIGHT, SHINING ACAUST THE STARF SKY. MEMORY SHOW THE HEAVENS COME TO ORDINARY POPUL HEAVEN NETWO MAD WARNINGS OF COMUC CATASTROPHE. ARE NOW WARNINGS OF COMUC CATASTROPHE. ARE NOW WARNING FROM THEIR REDS AT NIGHT AND EXTERN STORES OF INTERCOURSE WITH STRANGE BENGS, THEIR RODIES SCHNEID WITH CIRCLES AND THEANGLES. LIKE SO MANY ASTRCES OF OUR CUTCHER. THE UTO BYTH



class of controversy, is controversy, which every established the very established of the digitation of question. Let 66, the UES divide a caractery this bawkers which a service state of the digitation of the digitation of the divide the divi

While the being call and meterphysical explanations very and contradic use another, there exerts to be at least one constant about our nature as human beings—and that is that we are not alone. We have a drive toward wholeness and completion which is apparent in everything we do. For instance, we publisher in infimient

undh---and produce a new white, the child We live in proups because we can accomplish more together the single individual ever could. Even cur intellectual history is one of encloss struggle to mole what we know of the world hi into a large pattern of sendingene.

But our deare for unity and completion is, perhaps, nowhere more clearly expressed than in our need for reliables eccentratics or under-

controls Lerived from the Latin regular which mission is incortined, religion is carefules to the drive or cosmic order of throng. Similarly, revives to assoorganity means to make which Sahwton, free atmost and orderon, is the with Christ, with the University with revenues among a part of something, and theorem g a part of something, and theorem g a part of something.

Whatever the physical reality of LPCs and always may be it is easy to see the religious distances of long physicanes. Carl Jung, to easy as the 1950s, notes the assemblance of flying sources to the mindals, an ancient sources to the mindals. An ancient sources of wholeness and tolkalion. More merely, blas of association and the Other-s being tists heards. The Other-s being tists heards which as own. transpends the darly interpourse of human existence

The start, it is reasonary to partial optimized by the particular mean-fing the particular mean-fing the particular departs and the partial strength within a first order of the start of the partial strength within a first order of the the the benchedge with 1 archicols are partial to the start of the st

possible to dating an among these msponses along three district uses. These are those who believe that the other than system to another dimension, and holes who against are meny a product of the collicitive payter. These are hose who mispite the pithometon in largest which is down they mental the limits of otheral earwork, and holes who approach against hold the collicities payter. The area of the collicities payter hold the set of the collicities payter hold the set of the collicities hold the set of the set of the set of the LFC as agend hops and a collicities that and indicational distinctions when the set of the set of the hold the set of the hold the hold the hold the set of the hold the hold the hold the set of the hold the hold

The dominant sepoise to the UFO in the larger outure his been one of tensarive hepeful anterpation. Broad larges of the population office believe, or word dependently to believe, that he UFO implements the new presence of a superior technological longer probably tem another size system: interaction with which us a centred for hereen with

LKE GOD, THE UPO DIVIDES OUR SOCIETY INTO BELEVERS AND NON-BUIEVERS, CAUTIOUS HOFFFULS AND FOULITY CAUTIOUS AGNOSTICS BUT WHETHER OR NOT WE BELEVE, THE UPO HAS A LOTTO TELL US ASOUT OURSEVES

way seem to need us as much as we need them

All the support that we humans performing the support of the support unity and companyable, there ober the support of the support of the support of the support the support of the support emerged around the UFD that humans period support of the UFD that humans period support of the UFD that humans period support of the the UFD that humans period support of the the UFD that humans between the support of the support between the support of the support support of the support of the support for the support of the support for the support of the support support of the support of the support of the support support of the support of the support of the support support of the support of the support of the support of the support support of the support of the support of the support of the support support of the support support of the support of the support of the s

There have, however, been a nomber of deterch-and even mutually opposed-reactions to the mythic obaracter of the UFO phenomenon. It is The media connected is a locanator with the new science," with unified field interest with complex cycle and there is a science of the phase which are pushing us beyond the old worthway which regarded the univasies as system of etomally related atoms, to were an understanding of the "relationality," holism, and self-organizing char-

acter of the universe. There is, at the same time a clatter to respect scientific norms and to avoid explanations which lack scientific condition.

Probably the clearest and most provervi generated of the veso races match for the Stavers Bealtery, whose we have, Cobe Stavers Bealtery, whose we have, Cobe Stavers Bealtery, whose we have Cobe Stavers and the stavers gave time browsen managed a subject to string route of analytics of a party worker, diverse of a subject to string route of analytics of a subject of the promoved of a subject to string route of analytics of a subject of the string of the string of the string of the string of the staverse fitter on solar of the solar of the string of the string of the Waisman is a clear superson of the solar of the string of the string of the string we have the string of the string of the string of the solar of the string of the string of the string we have the string of the string of the string of the solar solar of the string of the string of the string of the string of the solar of the string of the string of the string of the solar of the sol star/Makes no difference who you are

turio towant official science-and thus in their willingness to regard the pheskephra closely aligned with official quest for an inflabilited universe but recomes, will be in tanery code and will operated by a consorburn of university peneral of the United Nations.

awe at the vastness of the undertaking book, Angels and Aleros, voited with a the California depart. The way a Harand told me with an aimpet religious

1983 documented the optimulies beonly of the finite factors of the infinite



creative intelligence"---sounds surteat the philosophical implications of

are filled with references to Descartes ernisis which had been transmitted to mmediate predecessor Unanus coarchangel Unel. One Unarius film de tactee who suffers persecution at the hands of his tribes high priset whose

More recently, theosophical contackee and charateling puts have cears way to New Age interpretations of the scientific enterprise than they they contound science because science essery for the culture is shock ecurva-Our destroy is not ours to superorgativem that is called Everybody" Where the technophiles area religion centered on the maxim flet op

This liteme of letting go has also Luca. The subject of several books by UFD investigator Playmond Forefer told tought her 'how real God is and how penance as a catalyst for growth report Initial fear and destance which they concerne only through while amounts to an act of religious submission to held coppose Whiley Studies ingreetedy drakenges by right of the particular common which there is the studies to achieve the submission of the term ready. We have the right. It is only after the has accepted the the term able to come to terms with the expenrence and learn from the

Not everypres, however uses in the degrad and perfavor definitive pardet of a sign of hose those again the original and perfavor definitive pardet of the signal degrad the term to the signal degrad degrad the revenement also there are the performan of H. G. Well's filter of the Mondo and Ghoor Welles Immus basedcald of the Messaware and the Mondo and Ghoor Welles Immus basedcald with also insteadors. We are descertify afted thet we are being sitem over by a face more powerful than outselves, the motives and modes operand of the messive future readors.

The nocon that the phenomenon is somehow instevolent, cuts across the lines between schoophis and technophobe and even across the lines be tween believer set of chibalisval. Visioni of a technological New Jeruselem fro their counterpart in an emerging dout tempts of succel invescel by gravsiters from 2018 Relicul, who are breast provides in underground of the success of the success of the other success of the success of the other success of the success of the leader hereing policies and an energy later. In the success of the success of leader hereing policies (and wolated, and among policies) and wolated, and among policies (and wolated, and among policies) and an asset of contrast between the alians and the hereing common all the 32-12.

One parmar of the Resculan meson hypothesis of physical John E. Break and the space of physical John E. Break and the space of the says that the "Ske Wark program" in which the save devices private the space of the space of

The there of poincel conspiracy,

These we are contracted to those were the second se





Maybo not. But plenty have died for ideas. EITWAVAIRID REVAULT, caught under an allosaur's claw

of VCR clocks being reset after a power

from the not4-band sold. "Captain! I parms hold her together!" He was such a wase-ass,

hell it should be defined if sust stared, faad

at the bottom, but I wasn't dute sure what

But I chidn't coaint on Mary

brade Rick Mary was a creat theoretical

That was Leosy-she turned lived when I

Mary I'No fight theoretician'-New echoed in our enclosed, bathroom-like

TIME TRAVELERS Reseasoowww-the acream roping all my

mike plugged into his ear. "Mayday! Do you We're cresting somewhere in the

But not before I heard Lacey, or maybe d

I woke to the ameli of sultur, the statt of Mary Clarke was the senior scientist in IPERSCINIAL CODE cascading sparks rolling down torn sheet looking down into something I gouldo's et. meat They I realized it uses the top of Pick Hauger's head with a large circle of bone chin't want to thow up into my colleacue's.

me in the arm and Lierked away title-

I twisted my head to the side. My seat and was standing balanced on a

"I'm okey" I said "Just sturned Don't skug me again

ourly hair crushing against my face. mond conditioner took away some of the suffur stanch

"Hey hold on." I said "Heip me down from the seat. I can't do anything trapped up here

"Jesus" she said "Jesus give me strength 1 When I tripped the safety buckles, I slumped down against her

helped her up

said

I planced at the partial decapitation "I think hes clead " "No I'm not." It was Ricks

voice, the a message widing

Mercy" Latey said, and something I thought might

"Hey, I got the rest of isim." The new voice was Chuck

My own mind was spinning. "Whole

"Me" said Rick "but I figure this is way beyond what I can handle " His rock star, remember? Geology's my bag. Neurosurgery in a million time

it's not doing to be neurosurgery."

Rick let out a ghastly grown Lacey ing at his runed head. But her hos

"Mary." Hurtado seid. "Marya the other medic. Where'd she go?

I finally looked around us. We were rapidly into a rugged lava wall. The time mechine water i in terrific shape lenetoid about twenty lest in the air. rock auticos. The mage in my head was what would have happened had

At least we had an -though the at-

turnes rolled through our grash site. My even burned and started to water. All With about the same effect

There was a yellowsh half-ohr illuministing everything, but I pouldn't tell whether it was all the case in the air, or wasn't much to be seen of the sky i

"I think my back's broken too." said tude of prover.

was so edged, I could have shaved WED C.

meased up pretty bad " But she was

I want too rain about that show it be alive more than a matter of minutes. cated line of her yaw and waan't sure I could even feel a pulse

doubted it would work for him any betchine I could hear the shap and pop of cooling wreplage above us. Obvipresumably failed us too

> made up my mind "Okay ter Furtedo and I wrestled analyst scrambled back to the tops. He tossed a loop

ON CLE & WINDBANK OF SULFUROUS FUMES ROLLED THROUGH OUR CRASH SITE MY EYES BURNED AND STARTED TO WATER, ALL MY SINUS CAMITIES SEFMED TO CLOSE OFF LIKE WATERPROOF DOORS ON THE TITANIC

> "Yeah." I said. "Where the hells Her seal was core too. Record holes

The tarrain dropped severely away

I nodded agreement. "We ought to

'I think we got some rope somewhere I said Furtado. He turned back

"Never mind," I said I had seen a oliter of alumnum along with a flash of was all obscured by the deepening shadows and the rough-edged juts of

Nou trat?" said Furtado

"Okay" I started down the slope I felt my fincent sip on the stone. When I Indext Lass the blood. Mine: The rook down to me and I secured it around

above and me showing from below, we

Lacey left Rick to come and hover own our leader. "What can we do?" she said, smoothing Mary's blood-snaked

"Not much." I seed

teckered open, stared, and she spoke again, some of which I could make out

Who?" I said

"From base," sett Mary, "Did they come right-' She poughed up bright red blood "---right after we crashed? "Some Languaged "No one came."

"Then they re not " Mary closed her eyes They can't find us an maybe-" She poughed harder.

the other end "

What do you mean?" said Lacey Won't they come for us?"

Many didn't say anything. So far as i could tell, she was dead now i couldn't hear her brain bubbing fincuph the thicken blood. What she means? I said to Latory, i's that any time-traveling rescue pany would have shown up labout ten seconds after we crashed That's the next her alkout time travel.

"But they didn!

I shock my head "Chances are, bey worth"

Chuck Furtado spoke up "Whatever knocked us out of the time stream might have just been a bounce from some event up at Harrikon Base. Marvis richt: Theympith all be dead."

"They dan't be," said Lacey She stared at mo. "Nobody would know "

Notody would rave the use grint This which resons had been disabletine. Old man Hamsoon-damn his Christen sour and the Ubertane head for commence-hadn taxeting a word of the toated or the governmer. He rementeed all roowell the cold taxet tay. And if there should hand out it be a wate process, he wanted to make damned aver the Hamilton Corporation had all hoolds sure limity in thing before to D O D ow ind of it So we were on our own. Notonly knowe All the permutations of Ladys sombler works echoed in my head this point. I figured the four of us were about as lost as human beings over hild been And mathe were work be

We unstrapped Mary Clarke's body from this costed that and vangeel her in plants sheeting that had protected some of this crasted suppoles. We set her on this downwel date of the crastfer, Then we set about buding latenter, ence it was getting cold. Furthol and 1 constructed a minimal lean-to around Rok Haugens chair. He mode close the didn was to be moved

Then I held the bettery temp while Entrado took Rhoks henden-not that a sould make any difference because of his paralysis—and Lacey seared the top of his head back on I don't know why we shell it. Probebly it would have been part as practical to over he omnum with plastic wap, but it seemed like the rolt thron to do.

Hick didn't feel much of it but werey once in a while, as Labey drew a finasisted knot tight, he would gek hom, the shoulders up and cry cut Labey echoed his cry with a life sole, than brough the needle around for profile pass. It seemed to lake forever, but eventually Rick again had a complete head. More or less

Naturally if was only after the sewing research that I found the drug-case I gave Rick a joit of partialier and te finally noticed off

"Save some for us," said Furtado, looking like he was trying to smile bravely

"I expect we'll need it soon enough" I put the case down by some of the other stores

"fou want to know where we are?" I glanood back at Chuck Furtado. He hunched over what looked like one of our laptopal Battery power.

"I think I can guess " I said. "Within is hundred million years or so "

"You're being a smart ass," caid Furtado "Liston up. When I said where, I meant t

"Probably preity close to where we let"

"Allow for a title precessive drift, but you're pretty much right." Furtado topped the keys a few more times and squinted at the screen. He rattled off scree coercinates

"Okay," I said. 'Wyoming The southwartent desert. Rock Springs?"

"Thereabouts. We've about in the middle of the Green-well, what'll be the Green River Formation."



True enough: A ways—a long ways—op the line in the Ecotre, the would all be under water. The Green Rev Formston-teld one of the toggast departs of based tith in the wold. The word once all price 12 better soft. Are unserse they had needed point the collecting trade it was a boom the collecting trade it was a boom the collecting trade it was as boom.

At the rate things were going, we'd probably be among them

Those two want some support?" I said to Furtado and Lacev

Don't forget me ' said the mostly ment Haugen. Already fossifizing, but still hungry.

At this it was almost completely black after darkness fell. I could see no steps because of the micka and cloud cover. To the ado-and i had no way of isnowing shall compass direction that wats, just that it was mather up-nor downhild-could see a duil compg glow at an indistinct distance. I memori i was viciance dated

Before clusk: the amoky ourtains had parted brefty and i though 10 seen some greenery resybe a kick of two classes if there were kicking carrosaurs, they weret leading they really woulds a spend a holl of a lot of time traging too close to neighboring wideriam.

Since is use sagned to be no mmediably appoint to apper from us as the mad of a sority. There electric even my meets in evidence. Small bags, We each had a leftheight themal brance and a rolled lower we could use iss a price. Cloud: Furstade units up cloue to the face of the nowscoring Pick Lacey and Larepared our bed a down freel away.

The capacitation would never have allowed lowers to be assigned to this power uppetition, but then they nover leader three between one of Mr. Harmatch based between one of Mr. Harmatch transfer between one of Mr. Harmatch and the relist the alwapite and a closed. Who would have three toright F.

It had to be chemicals Pheromones I don't know

We d speet weeks circling each other like wohes it was diear we had acting in common Sile thought Arity Grant had sold out i played Ministry discs in the lab and didn't bother with hereichtness. We made a previd deal of lighthearted-soon escalating to outright nasty-fun of each other.

She even said curright at one point that I was surally will on the way to coclusion from the ranks of the righteeus and could count on spending my owin great autinetion in hell. Hell She capped a in her memos. Like a was a Focko destantion.

The problem was, Laory had sort outy har i wared to feel unclead up under my chin while I laochtait the langh of her if millsb body with the road of me 1 was only new moreover status a simple the theory i wared a laying an of hands. And much more I figured out mans featmain washi look drifty on one of his recent schelars to outstone signing to follow his dick miller than thang the follow his dick miller than thang to follow his dick miller than thang to follow his dick that the follow his dick that

And Labery Well, Labery risked both summery firing and demnation for

The set the we made too Loop of an its or how your happing the control of the set of the the control of the set of t

I don't know why I lowed her til wash jast her body i biogin that always assaid ma migridy. There hald be be something in the resirve that dee ind maybe the opposite was site to too to her I had on roots—root avec I left forms—ro real assaid of while I was of had been or nots—root avec I left forms—ro real assaid of while I was of had been or was going Loosy on the other hand had a plan ware apaid. And wave if my lai lead my arms and fig dok ware a problem distance.

She ci told me about pine and kudzu, red clay and dogwood-Looka ele a bazzeni, come the sprog. Once I had visited her at home. I felt the



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Modem?

If you own a comparer and a nachen, you on any or own more of the UMA represents with ORNI Megazine on Antenna Ohne Breaden you howstone held eath the worlda observor, somete hasten and the family with Moreanes and marghal from their morth's usual. Takk in other UMA anders or antanesses and ensight from their morth's anale. Takk in other UMA anders on antanesses and Patencipae and the conference off events, and ensig-CRMMs shifting patholisms, CAMPUTE

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kowney i wave all the words full of clocks pickupa selogerators and junked cars

Lacey ducked her head down and tucked up against my neck and upper chest. Her words were multied as she shawed "Robert Hell saw us don't mind admitting it. I'm scared to diam'r

her voice and knew she wasn't taking about our bors at HarnKon | kusted mape of Ricks har, and hed to forget it I twitted my neck a little and issued marconed. I cidn't give any of us any maybe two

"We can fix up some sort of litter or travois. We can take turns carrying

When we we pape to on?' I said

"There are no other people" I said. "This is the beginning of the Creta-

"There are people ' said Lacey innisterfly .

I tried to clamp down on it but felt the firsh of anger. This and 4004 e.c.

Then she said, "God.created man when He created dirosaura. Both must primitive, but I m sure they will help us

God darro nº Lacey stiffened 1 and "Can the creationst type! There are no people. Were them, We're all

They found tossil evidence of people

if it ween 1 it was sloppy research and

You're wrong " There was a pro-

She looked up at me and I looked sumped the gap I kessed her and her ligs responded. There was no stockness

heat Lacey was just wearing her long OPU sester and I worked it up above

The last thing I'd remembered before The first theng I heard as I fell out of staked close by

I came awake binking, trying to extricate myself from the tangle that was fast consumably was an eastern supdown and mooed at the man on the milecular leg. For the barred moment li advired the sleek biological engineer ing of the demonychus-remember, if

screamed 1 knew we had both a Remindion pump-pun and a 30.06 hunting ples I didn't know where Them was a theil bracket that had come off the picked it up, whitled it around my head, and harled it as hard as I could skill. The bracket slammed into the ade of the reptiles law, but it draw the man's abdomen Chuck Furtado

he demonschus phapped at the air Then it orabbed one of Furtado's feet repble hissed around Furtado's foot.

cled away I resized Lacey was hold-

"Don't go after it" she said



Chuck's dead. There's nothing we can

Nou can get me some breakfast " Is was Rick Hauger's voice. He giggled from his upright chair. "Life's gotta go on."

But for Rick life was obviously not going well Labey and I give him some of the dry returns washed down with waar from the periodus stocks, When he cheved the pain make him stop. I shot him up with more of the chamcel bein, but I could see the supply was runned tw.

Ticologi at the suture ina around the top of his skull infection had set in fast. Angry colores and disgusting fluids fluibled windly every time he hind to more hirs jaw, and facial musclet tensed.

"I'll look for the antibiotics," said Lacy quality. After a while dhe come back from crawing through the weckage on hands and knose. She held a few white tablets in her left hand. "Throng spilled during the crash," she was "from these."

"Are they arabictors?" I said

Trust to His will she entwared "If they're not I don't think shey'll hurt him"

"Builisht." But I local thak to swith low two of the prils. I, too, figured d couldn't hurt. Then I gave him the last of the painfaller.

He sted before dusk

Wid taken tans watering over hm dump the day ken fitmissi out, Lakay found is good graveyaat while I was determined to taking our repeditors resources while all respong in why on Fick I found the refin and singly. But the ammuniter remains among the maximum I discovered insulgn food and water to keep to going for a law model of performance lawsup for the basisterman Perhaps well pendiarding.

About motiony and against my bdwoai Lassy had gone over the hill the same direction twen by the demonychus malong of with Chuck Fundors body By my wash, she was gone for inve then hours. She refurned escilial

"There's weter," she cried "There a stream we can drink from "

'Did you try if

'A little Trouble is the water was full of bodies'

I must have looked started

She laughed "No Robert not people Small dinosaurs: A lot of deed ones, buil i don't know how or why They probably came there to dmk and someting happened to them."

"Must make for a preby sank water



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Burg a fixed, itcle some new over. Stay as all might Sear, shows there a price called. With a black secret with a benef new fixed bits a bits integration and one maint's Without's Calles not still for where prowers where may new end as most as you were. By all activated firsts informant if and here a so place like it

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hole 11 sect

"I waked upstream for a wine It ict of what tastes like mineral content, more. I'm not thirsty for the first time

I notided. We can hunt the dince

There's dirt," sed Lacy

We've got a couple of showes here its

"Dust to dust," she guoted. "It's the right thing, I think *

So we did it. She and I spent about twenty minutes lupping Mary Clarkets Lacey dug shallow gawas I want back Three wood a whole lot, and it didn't fill a garbage bag. The demonvolus

stood start while Lapey recited Bible

Weld laft Rick along, he was awake carro, Lacey looked di Awaw

"Just stay perfectly still," I asid realiging too late what I was saving

can handle that " Rick connect

Well bury him in the morning 1 said Locey stared at me-accusatively I focuote "West?"

"I my to understand you." the sed softw

I chant feel like smarting of now so

"Robert' she sad mountuly "I naneverched you presty heavily after we

So what did you find?" I said already suspecting what I would hear

to watch your cladity," she speci. "Well cable. You know? He was about the both that prazy power that opts folios to you've both got so much shanath

Lipping away. "I never saw him after

You even pretended you weren't

Turning back to her, I said, 'I was

"Maybe" she said "Maybe pot" meybe you were just trying to find yourself a faith that you could match up

The sust a metter of faith " after said.

the same time I dropped mina

Lacey and Livert for a late welk, rough past and we were able to see by the bright moon. This time we didn't go to direction toward the eventual summer.

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can sleep on it for inter months before you decide. For more information, coll





TIME IS NOTHING BUT A CLOCK

ZEBROWSKI

DACT

OUR TWISTON

A OFFINITION

OF TIME

ILLUSTRATION

JEAN-FRANCOIS

PODEVIN

CHTURE.

There is no time. There people was any time, and there never will be any time. Time as a separate thing does not exist Lancuage real seems to dety our attempts to understand allo of time " or "altern time becard." serve only to remove our mucrain of him had a beginning These may be defended variables of ome, as there are differing showys wan, in, and over shall he " To imatino a time without eventiess time and the sheet nothingness of purely empty psychological impossibilities.

Are these knots of datements meeting strange and purpose vector than weeks, or too flay histo realise that may be even more baseries to our everyday, casaal wey of tweng things for granted? Minds as diverse is those of immunit Kanr, Kani Godal, and Jorge Los flenges central the result of patients conceptor of time as an aboute conceptor of time as an aboute conteptor of time as an aboute conteptor of time as an aboute conteptor of time as an aboute contents. a property of space and midble, and dependent on an observer's motion. The question todity is not whether time is real but how is fina roa? But not string to thick around

But do apply to this about the second control of the second case the heat case of the second case boot her extension of the case the heat case of the second the second case of the second case of the second case of the second case of the second case the second case of the second case of the second case the second case of th

What the history of our conceptions of time choices is how one loss after authore was thed and found to be insidejuistic, until the growth of experimental physics put restrictions on what we could imagine about time, in four of what we could say about it according to the best experimental widdhole. As with occepts of spane, the two main intuition about the are that three is an absolute, othernal container in which all those papers, and that the is noting by task, and cannot be undestood apout from physical propesses 'Vanante of absolute and relational thoreas of time have atferiated to assemble or accorrected to sense them and there in a verse of aver-

For example, perceived time is a local experience of change, but aparets in attacutor background time, house our books and experience of Stop all such decks and even the other kind of them with remain. In other words, our time is a local of thates, me during pacement finds and running body clocks to apparence events, but and the pacement finds and running body clocks to apparence events, but in others by pacement is elected by the background while remaining truto the local pacemin service.

A purely relational theory of time goes one step further by claiming that it makes no same to talk of

I make to be any of the original time, which the forget of time we consequent of earning and absolute time are morely migratule contraints, paichological élusions that fluctrate our need to end the questioning process. As solucy overlaes duration, live, a universe outside the universe, ansity mices no sense at all, no matter how much it lesses our imaginations. As

the very least, there is no empirical way direct or indirect, to demonstrate such a reality.

To imagine time lowing, to this of the sa separate chirty apart from everytring elem, is as the very least a movel of distributions is tool lapp away term of adventagions, a tool lapp away term of feating, in avery on one a shoulders as weighting heavy on one aboutters from the manufacture of the source program. The Monachicagy to Souther Wit-Westerbring conception of about use space and firm, in which appearant which everydring happener-time barry away which everydring happeneraway and containers of term terms are real containers of term terms are real containers of terms on away any which everydring happener.

For Licking, Sr Isaac Newton's space-tree was mapphable the alterrefine to Newton's abaction space and there was a nacioal informati Besoy Inter, ci di not have to explain space and time gravity action at a division. matter onega, or any of the real things that a physicite must deal with for Laterize reality in mabu go to prevent

ing monads, montal entities that have no extension or duration.

The time we expenses or Lebrack physics is simply the length of the program given to us by God We are therally on tape, experiencing a given workd as if we were seeing to the ordney weighbut the law world from which if was recorded does not assit. There is no workd outlide the program that was whoch having to create something out of indrag. The very positions with it is that there can be no engined vertical to be of a faithful control of a to that obtaine of a prom reasoning. We may however, the affect is create such a universe outprefers on the writial reactives of cybertgoers. And there are appendix locality according to be useful but to copy a scenaries locality range one day be useful but to copy a scenaries would instrudy conclude the model output but well follows.

Kert is less subjectives than Leichter, For Irm apace and time an the forms hart mind buils or things-in-themtowards at thing wells automation of things have no social air for themport cashines in between the social or temports as they are an exclusion or things as they are, in white we call perception mids work, unconsciously, on thingsas they are, in white we call perception mids work, unconsciously, on thingsan they are, in white we call perception cancer. But only things-in-thematewas a about the rule, and a information.

intercustole

Albert Evisian seems to being to the same toolist exhoat a which seally as a subjective ordering of oversis, espocially in the sector of the sealing of emutaneous for greatly esportated to be even to be seen to be synthemical be included by one light-seal for example, can never be income to be synthemical between the experiment between the includes at introd by the

speed of tight Strinkey events that might appear summaries to the observer who are done together, will appear not to be too the determined where interesting an injury to the tight of events where interesting and the special theory is at auto in the genent theory in which the generative special theory is at auto in the generative strinkey in the special interest in which the generative special theory is at auto in the gening which is presented as a fitted generative special theory of the special theory is at auto in the gening which the special theory of the special theory is at a special the special theory is at a special the special theory is at a special the special theory of the special the special theory of the special the special theory of theory of theory of the special theory of theory of the special theor

SubjectiveL or idealist tendences in the hadroy of papers are umported bocatuse they emphasize, however strangely at times, the importance of the observer time within the appenances the scheme of saidly We shapgle to differentiate between what is in us and what is out there, or more precially, between what we imagine the umverse to be and what it mgs in fact be Entropy, or times among loss in one cicommemorphics (is).

MONADS, BEINGS LIKE YOU AND ME, ARE ETERNALLY EQSTING ENTITIES, INTO WHICH EVERYTHING HAS BEEN PROGRAMMED BY GOO. THER IPGOGRAMMED BY REFIRENCE INCLUDES EVERYTHING THAT WIL HAPPEN TO US.

> deposed insets each moved. It have the perception programmed in the oil another person, and that person have one of mar we deviate performance and and the maximum and as real as it persander world is unnecessary. The stifter created world, and as real as it pers-And in the maxe realistic series, it is as much outside of us as any world of space between the another world be innece to between the nanowneck be innecessary.

The attraction of Lebtack's work as that in section to provide all the fundasatural attravers as to what the universe section attravers as to work the provide the sections: both the merely provide back the demand for explanation, section as much explanations are the sections: both the merely provide back and sections and the section as the section attraction as any more back and any provide the section as the section attraction and the section back and the section as any more back and the section as any more back and the section at the section attraction back and the section attraction at the section attraction attraction at the section terms is that "The curves bags as to acreat method."

Leibniz's universe is the perfect smwistion, a way of having a universe

THE OTHER SIDE OF THE





we been sancing and navng about it for years, but now im going to do something about the overpopulation probom personally

rim going to die Soon

set of the every exception of the parallel every the parallel (the parallel the parallel every the parallel bet parallel every the parallel bet parallel every the parallel every the parallel (the parallel the parallel every the parallel every the parallel every the parallel the parallel (the parallel the parallel every the parallel the parallel

spownier, load it with words, and the words kill people Only this time whan I do it. I m killing mycet, and it's not just a story anymore it's real This people do

The problem is, I'm not ready yet, I'm not prepared, Like most of us, I suppose, a tenderey to provide rate, to put of things to bonceroe, or sometime the near tubule. And ser all at once, the doctors it all at once, the doctors it are there won't be very any tomorrows, and the fu-

are resided Granted, the medical autoences and having on this in the proposisis, and body or light heart and any secretary strender borry any secretary strender borry on the beam your choice for early providents, that all on the made house calls and he made house calls and he made house calls at the made house calls about the house the house the house the calls and house the call of the call of the house the call of the house the calls and he made house the house the house the calls and house the house the calls and house the house the call of the house the calls and house the house the calls and house the house the house the call of the house the house the house the call of the house the hous

unces but indexts all green that this got a real oneled it is got me. They're all pretty sagay about exactly row much time I have the months, weeks, days?out every one of them igness it thight be a good deal for me to senich to

Having lived a long time, it's official new to accept that stalling and isertia have charated me of so many of finite simplicit pleatenes. I nover mastered the act of each conta recently, address

LOCH AN ESSAY ON LIVING BY THE RENOWNED AUTHOR ROBERT BLOCH PHOTOGRAPHS BY ROBERT SEBREE

ething whistle 1 rever we lote to shap my fingers—or loggle my ears

contenfold, but her staples got in the way Those are some of th things you think about w

be dead soon And because you re acavad y Damn right Lam Ar

think anyone who lon t afraid of dying is oracy, unless he or she has found a way aroun the problem. Becoming a variable initiation on bothow do you go about 12°

at much success All that m much success All that m have long distance phote call duced was, Thank you f result calling Castle Director V of sony, but all of our block report. If you will leave your warns and blood type we will return your owl as soon as possible

So hadre in mysel its wat as well i don't call back Come to hink of it, a vern pre a excession isn't all that easy, and who wink to skep in an evening dress instead of papenai? Beseds, I don't wait to live tobed, i don't wait to live tobed back of the genught to the accurd for George Burns's 100h bachday

All right, enough of their Liers gat real. Get a life Get a death liet whet do we know

about death, anyway? Not as much as we think, most of us, because it on t something we're supposed to think about

of my professional prooccupations, thereit a winy little lower bothward to learn about the actual report of motor But now that twe a personal interest in the subject, I decided is was high time to third oct while to expect. Here's what the experts

When you did, your heart stops. But the brain is still geohnically alive for three or four more minutes Digestion occurs for like next tworty four hours. Blood

HINK ANYONE WHO ISN'T AFRAID OF DYING IS CRAZY, UNLESS HE OR SHE HAS DUND A WAY ARODND THE PROBLEM, BECOMING A VAMPIRE MIGHT BE NICE. UT HOW DO YOU GO ABOUT IT? I TRIED, BUT CAN'T SAY I HAD MUCH SUCCESS.

downside is darker and more motiled. If the body live tace upward, the tace is two to aix hours, depending on discumbloated with gas. The firsh decomposes the verits and skin turn blue, tasue turns to lefy, the comes of the eve is no longer clear, the eyes begin

sion pulls away from the Hos. hunder. Macada are moving mouths, devouring decay.

body is just an exterior, the

you're dead. The me part versions telling you what becomes of a Who looks after its welfare, who protocts £? Here's an enswer

in porthern index, in the corneliesy of dual and mean poiess. We don't know Bodharva, is Kshetrapala, the Guardskin, a vellow face, briefling orange hair, three building red eves, and a mounted astride a huge black bear skul-cap of blood in the other

So much for your security guard. On well as out, who needs this kind of they heard about boarskin loinciping

If legend hean't got the answers." when you get right down to it, history is

Semple in Chice in 1640 4.0, the area was transformed into a mountain bends topos

Sound incredible? Yes, but if you read it again it sounds pretty dull toorecorded message. Sony, but we don't Our Fitz is down

Not much information, and no medicine, organized reliation, or dis-

term which is no longer just a figure of roots-fiction and drama, the areas in which I've lived and worked all



who Chang Haren-Chung was, and not rymity as that of his 30,000,000 rather than human beings whosh mountaine of cold cute, there a nothing here for us to care about. We don't not lively any of that yest army of yo titte will return to give us any answers.

and ask if he can histore any of those body parts to life and all you'll get is a

It seems to me that the deathbed drama, though error. A good example would be Lord Nelson's lest mortally wounded at Tralooue would have been much

But practice makes perreached in the film Critery

expect the seriomental servicit of a Little Nell or get vanked to heaven by ropes) for Little Eva. there are easier examples to follow

Neboriy ever died better than the Brook in the early days of sound film a town house, a country manor, or propped up on pillows, and extremely wel-lighted, the monbund usually hed philosophy balane quetty sypring-all this, mind you, without a single tube or

Dominate the mind... Dominate the world!.



Back when they were known as the USSH, they conducted over fifty years of research into manipulating the forces of Extra Bensory Percendum (ESP). The predent

Perception (BAP), the process of 5 herr research, the Paychatronic Generators is solid to the government of the United States, Somewhere an route to the U.S.A. is vanishes, and now H's up to you to find it!

Study Hander Samples Northar 313



"The Psychetron has more than an hour of video fur Wastows?" and doorns of incredibly fetailed 3-D azemution worsened

 Windows¹⁰ based glasspeet provides shandardised operating survicements for quark sel-up and play?

 Revalutionary scoring system allows multiple players to participate together in the internetive instrumenti.

 Dislogs are intersetive as well, eventing a new experience each time you ploy!

 Enlarge video windows to fall screen any time yes withi

 High production values including a root of profesional actors and an original must source bring pro the world of The Parchotrical.



And Systems, Physical Advantacions and the PCMAPter's an and the System and Advantacion and Advantacion and Advantacion and Advantacion and Advantacional Adva Advantacional Advantacion Advantacional Advantacio



INTERVIEW

Total and the site at Total and the site at Constants, one of New Coband's front assumanta, and something biocones very clear outrols in other sites Topacto and verya with without pacto and verya with without and variant of the sites of the constants of the sites of the constant of the sites of the the read attal, both the sites of the sites of the site work in the pacto at the sites of the sites of the sites of the sites work in the sites of the sites

Topor stove a semilary way featured appending for leases (Bood exercises for leases (Bood exercises for leases) appendix and the semilary parts would class to make may be an used by the semilary math and physics. Topic for lease and physics, the semilar of lease and physics. Topic for any appendix the semilary math and physics. Topic for any appendix the semilary the end of time predicting the sectors of God constraints of the weeks and the sectors of the constraints of the doed and the weeks the topic of the sectors in the rest of the weeks

Encogh to blow most cacipot delicitors right off the scale. Yet Tpler is no sofhead baking mysteries of quantum physics into New Age monimatows. A terucuto full professor at Tulano Livwenty, a rowwer to Notsor. and an established cosmologat, he is "weldy known for misonant concepts and freerems in geneed relativity and gravitation physics." according to the graved old man of cosmology, astrophysical John Whole rol Prinosten

Tipler's test book, The Anshropic Cosmological Principle, published in 1966, was a

A PHYSICIS PROPOSES A THEORY OF ETERNAL LIFE THAT YIELDS GOD

PHOTOGRAPHS BY PETER LIEPK





PROFESSION:

and cosmologis

PLACE OF

Tutane University, New Orleans, LA

BOOKS WRITTEN:

The Physics of Instantially (Doubleday, 1994) The Anthropic Cosmological Physicsble (Oxford, 1990)

THEORY IN ONE

"God, is personal being who created the universe out of nothing, exists, loves us, and util creating see much us all to five

in heaven forever.

EVIDENCE FOR THEORY:

Parkaples of physics

SEX IN HEAVEN:

Tim producing it bacasse most of us want 4, and the beings of the far future will be nice and let us have it. It's a small part of the state have a

BEAUTY AND WISDOM:

Viologinal and the second seco

ON REALITY:

The fundamental computer is the ultimate level of reality."



TAKING THE SPACE-TIME VIEW, YOU SEE THE WHOLE UNIVERSE, FROM THE END OF TIME, FROM THE ULTIMATE PUTURE—GOD COMING INTO EXISTENCE.

shocker: Co-authorsed with British certrologet and atophysicst John D. Barrow, Il protripuid the revower in Matter to say the volume desarroot a pixee ins the shift of any enruss scholer of seeman "Stil, he couldn't shake a service of "serve snake oi being poolide". The page was ormainstud with a cartoon of Tipler and Barrow riding a magic carpet, sontbilling arway with paper frivio

This time breklass were hinde batters for Physics of removality was comocided. A foreind remain [Type's to local label as the Max Planck Institute in Munich when the book aspected in Germany file spring but the melabol was near-field at the last minute. The fax rend "Dear Frank some amount of genuine prome amount of genuine prome for —softer in Sector Hepatile reputation of spector infort author."

1 didn't know differential equations could be so contrownosal 5 Tipler cracks 1 wsen't going to mersion God (in the lecture) even once "

print fire effects and years print throughout the unwrate, growing to infinite isoutadjusted to the unadjusted of the unage Network adjusted to the unage Network man and the unage Network and the print is the adjusted of God Area in hand to work the Trans print and the adjusted of God Area in hand to work the the computational power with the proceime of the time bears beings And we will be been in a what every handle

Now 47. Tipler was born and saxed in Acdisson 4/abarna. His first science project was a lefter writen in Kindergarten to Werner ven Braum whose plans to launch the first earth aastelie waset then being publicated Von Brauns scientasy repled. registrating the had no toolet field for Tipler as requested. By algo first, his kines in dis entried to be an astrophyscell Bick he's always been a polymeth, reacting wedge socies' disciplines and into the history of solance and theology. After graduating from MT and the University of Maryland, he did postdoctrari work at Ordord and Berkelay, before arriving at Tulane in 1981.

Text in on Tipler's class in global relativity and atterward talked to tim in the oftoe and at Chinstian's He chees the restourant partly for its currers and partly because of as name. The itory is typical of Tipler, where idea of the work as amous fum is contageus.

-Arthory Liversidge

Dinoil Are you a crackpot? Tipler I don't think so But no crackpot thinks he is, right? An astronome once published a list of the rules for determining a crackpot Well, if you read Darwin s Organ of the Opscies, you'l find he was a crackpot by one of the optional (in were conservative scientifically (in just changing the boundary concloses in cosmology from the beginning of time to the end of time. I accept all known physical laws, and just change the pont of vew

Owner What is the message of your book. Physics of immortable?

Tapler Errmanusi Kant clasmed the three fundamental problems of motophysics are. Does God sunt?, Do us have fee wil? and is there like after death? I turn these questors of mela, physics into problems of physics, and solve them answering yes, yes, was that have it summarise my book.

Otens Aren't you confusing physical with metaphysics?

Table: The history of science is your colly about timining innoluble problems of metaphysics into problems of bigmos and voltary here. I lies one of physics and voltary here. I lies one of totol dovers: or only a limbo time? Name hought the way knowned by model the Bu in the schements by insolution box, and main a perposed period for problem into one of physics and sowid problem into basis in the a specificity. physics. And only by physics.

Onse Reductional belief? Why do you cal yourself a reductional?

Type: Because L between everything can be understood on the bases of physics and attract everything on the bases of our currently understood physics. If the Enxiety has the excel an correct, and you know the initial data, then you know everything about the Maxim 1 you know the origin to base and you know the origin of the Maxim 1 you know the origin base and operative the state of the boundary conditions into expetors and operative the rough

Own: So are you a scientist or theolo olan or both?

Tipler Like most leaders of the Amescan Revolution. I am a restural freedogan, saving the only thing you'l karn about God derives from nature faelt nallier than from what He chooses to reveal to He creates

Onse What does your theory tell the man on the street?

Tipler Reducing the Omaga Port theont tione services at its his God, who is a personal being who created the universe out of nothing, exatt, loved up, and will one day restruct to all to her in hateen lower. Now defending this curraceus statement using repor-



ous science takes a 800-page book! But I can turn every single word into a reductioned statement of physical realny What the average [Christian] relgrous person with no knowledge of physics hopes for with in fact occur.

Owne Won't physicists give you a hell of a lot of trouble?

Tablet' (Na, aunity (but) rever lower the costs of physics. This sites, that the basis tensis of religion can be set phined by physics, hale been held by all greet Christian theologons' I quote 31 Pail to the effect—the base attriction of Good can be seen by the natural based in a five point of the easteroor of God parsity on Antonions physics. Thiblieffect by natural sesson is Remobertive by manual sesson is Remobertive or years.

Orms What leads you to predict we shall all be raised from the dead and two forever?

There we subcorrectably of no empotence in the protocol of the subcorrectable of the protocol of the subcorrectable of the subcorrec

The strength model of a comp unversite does not un in a single point, means does not un in a single point per in a direct loss to a strephport in a direct loss 1 autors, when is why 1 point a queepoint mark as to per the addicated by a spectra of the two pryceol across of the fourto and paint two conjusts of the fourto and paint two conjusts of the fourto and eleving basic to a direct period. The means and paint the conjust of the interview of the strength of the streng

If the is to contrate forever, certain properties of the universe must be lead now Take the solar system its perfectly consistent with Newtonian

Not everyone gets to meet his maker...

...and kill him



ORIGIN STSTEMS PARSEERS & KEN DEMAREST PRODUCTION OF "DIOFORGE" "Jack Herman web Bruce Lemons "Marty John Tipton "Brendan Segraves, Lance Brooms a Janie Dood

en 1818 Mild I Server ha Enders wit bleb histories Enders interneter al fields history. Fri Slaver a president minute of mild history, h

mechanics to assume the earth is the complete mass when you try to analyze it But if you make the out the center. clear if you adopt the appropriate coormany unknowns to project very far into

Tapler. Assuming life goes on forever can't predict arwthing. Coupled to that two sources of unpredictability cancel for this chaos, so you can predict the

Otton! Surely we may blow ourselves and the planet to bits and your eternal

tal more subtle-after af, there d be no

mate. We have free will, and can blow must be at least one other intelligent apepies in the universe that does not which the destruction of the earth want

The Omega Point Incory is that ife quarter the universe is closed, with its final state a single point. That it is a because that means communication close to the final cont, we will still have

Tipler, I say He when referring to the

wew Taking the space-time vewpoint. suure From our point of view. He/She Onnel Why do we case if it's occases at

Tipler: You have to be very careful in





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cosmology when taking about measurmeasure. Your clocks depend on the possible for the earth to slow down. But

Bight now, we're using proper time can vacually be thought of as the vibranear the final state. Alonno time is inapand which is measured by the number nte number of thoughts will have been again neer the final state, and will con-

Onsy How will He spread throughout Taller. It's physically possible to build a

space she that can go to the other have to reakze gverything-this clerk information. In principle, you can get the whole of the pattern which is the talked of a life force or will

Tipler No such things!

Omy So you can write all the informasame offer place or time, and pend &

Tipler, Exactly 1 prefer to use the term an exact smulation, an absolutely perobvoroil machine, but in reality an em-



luman being, indeed the entre wishle ciently powerful computer I give esta human 1045 bits of information. The Soline universe will need 10/22 bits, as

tets will be insignificant in comparison using a bity fraction of lotal computer tare the universe as it now exists. We would come into existence again-the puter there is a virtual meeting, and

Onvis But will this 'event' be only an

Tojer. The event will be the present reality, but at a higher level of implament tation. No experiment conducted made the simulation pould distinguish belated an exact simulation in every con-

are not an emulation?

Tiple: We don't We could be an emithave now will be there then You'd think the beings. Right now we are in effect move forward in time. You can do that and as our emulated solves, until beemulation-such as moving us into a

Over they can people east as empla-

the base computer only with the emu-Iston. You are intride the emulation. How do you know you're not part of it

Now given their power to improve

the the sexuation, would the borngs of the influing permit with reveals in all their meansy? Not They's implicitly out the sexual period. This's my argument, meet that the present with assist to bright encore. They argue on the bases of the present the values to bright on the they argue on the bases of they are all the second delay a utilitative an external of the the barry is the they are external of they the barry is the they are external of they the barry is the they are near they are the second the they are external of they the barry is the they are external of they the barry is the they barrow with accused to emixite us, just as we are new stray to entitlish the the they are near working to entitlish the the they are near working to entitlish the the they are near working the entitlish the the theory are near any and the theory are near any any or the theory and the the theory the theory are near any any or the theory are the theory the theory and the theory the theory are near any any or the theory are the theory theory and the theory are near any or the theory are near any any or the theory a

Owner What is your definition of the soul that's new mechanism

Teler: Lies the average percon I detine a scul as the essence of the human beng-the difference behavior a corpas and a twing being. But utilies many, lues physics to tel mo that the undersets difference behavior in the being and a corpas is a partocolar program being is no in the body most investitely the beam.

Cheve A robot could have a soul?

Take: Contrary You only solution now because we only them a contraver on pargram powerful encogin. This conout of a single should be a solution to the solution of the solution of the executive and the solution of the encoder and the solution of the local beam encoder and the body. The solution is the solution of the local and encoder and the body. The solution is the encoder beam encoder beam encoder and the body. The solution is the and the body. The solution is the anise solution takes the the anise paragraphic solution of anise the body. The solution is the anise paragraphic solution is the the body. The solution is the the body the solution of anise paragraphic solution and the Bie body.

Oreas Heart a tot of information about oach person and his or her life been lost forever, preventing this future emulation from operating praceasity?

Table Table work page to from reporgenerating the second second second second and the capture of the three second secon

Genery If you are going to fill, a writed

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Tpter: You want to know if the specific you will be there? That is guaranteed! Onne Yos as one possibility of mysell, not allone Tpter. 261 one of nasives, not more

Typer, 241 ons of nakkes, not mare possibilities But here allows of yours are here now if the many-worlds interpretation of guartum mechanics is compretation of guartum mechanics is now you will be totally unaware of these other yous. But his particular you will continue to read.

Onset If ife is information, the existence of eternal life is only the eternal existence of information

Tipler Yes, and it's being coded, informetion proceeting going on forever is a reductioned way of saying life going on forever

Ormit is that why some people keep exensive dames, do great works of an or deeds?

Type: It's one way of seeing inmonsity. Schopanhaue, in a shadow series, soft exists in your mind. But all aspects—the full power—of Schopenhauer is not here. An estracetinary event that affected him as a child, but was unmenterind in this pomela ind no one. else thought to recover, is not now exsting. That Schoperhauer can return mits existence only if the entre visible unverse of the late melecrific century, is emulated in the computers of the far table. You have a very limited form of immobility when you try to live forever through your writis.

Otstal How will we ever/fually take over and control the universe?

Tiple III work be form servers it can species has a forced marrieller liketime, it will be only a two mass million years. Our discontains—outbally is telligent tootos—will use tocknots to expand farm ang praket tasknot pant in the unverse to eventually angul the whom thom we can use the universes and the second second second and it descriptions to be us considered has it descriptions to be us considered has the second second be whole to expain pattern and control the whole universesand much to serve.

Onver it seems impossible for any its to control galaxies

Typer Crace allows a little nudge here to amplify, after a write, to an enormous charge than, imagine a rew of dominoes; each of which is slightly arger than the next. The domino hits the next and so on unit you have a giganito; stone pushed by that slight nudbe of be that charmo.



Omm: What about loss of energy?

Their Their the system is not Chusc. According to general whanty the syshem as charact. The unverse will expand to an inversion state and them monor protein signal when the state of the monor protein signal hyperbolic characterization of the system state. The state of the unverse to collapse at offseer to spot and districtions will be contain patterns to the system state of the of the state of the s

Once How did you trat formulate this theory of yours?

There I have Prevene Dyports, "Time Whote Price," parallel and in the Rever of a baseline Carl Ing and the Carl Ing and the Carl Ing and the Carl Ing and the Carl Ing and Ing and the Carl Ing and the Carl Ing and I

Eventpathg whether the carp on or ferver was in source of the Oregan Point theory. Conclusing the tile camp gain of hower, in an open universe, it said Lafe look at a closed universe initially any physical would say. Of course ref. If is closed will say of course ref. If is closed will say of course ref. If is closed will be a maximum gas and mechanism. It starts to get smaller, the interpolation is gain to get smaller, the interpolaprochoo the final anguing, the tomperature will go in finity.

Any mean well devocably be inclusive add and cuickel to serve outries the is a globally for information to be eninitially in the signal of the serve any of space-mine. You approach, but mean reach is an object and the space-mean flax of any serve and inform listing information or subject or does end the next of access levels of obenging- ang be between one lived and the mean day you appreciately in the energy in west that proceed in the mean any information and means any information.



The devil's design: UFOs as war toys for angels of the dark

Could some UFOs and their cocupants be manifestators of demonic anoels hell-bent on destroying our society and faith in God? Absolutely, say two former Air Force men in a new. self-published book titled Press, Arlington, Virginia) What's going on, explain authors Nelson Pacheco and Tommy Blann, is just the latest chapter in the eternal struggle between good and exil, with the fallon angels coming on as extratemestrials in order to be accented, even welcomed, by humans. "We are dealing with highly intelligent beings," says Pacheoo, "and in their effort to

subvert us, they will use whatever cover they can."

Pachesico, à Roman Cathollic, and Biann, a Protestant, doi not reach this dialoctic conclusion based on their religious obtains, they maintain, but reliner, uffer decisios of studying such phenomena as crop orticles, repeations of the Vegit Navy, and Pacheson, they remay not them. We just wart to got the studies of the service of the Negit to our protessional republicity."

That reportation's considerable, Plantess, 49, epper 21 years in the hardball State K-Forc, during which there is helped in the transition of Manufares which begins and the state of the state of the state which begins which on energy call that power which begins which on energy call that power a halo charmer of the mathematics department of the Automatic and States and Canada. He was also charmer of the mathematics department of the state of the state of the state of the Automatic and the state of the state of the Automatic and the state of the state of the Automatic and the state of the state of the other state of the state of the state of the other state of the state of the state of the automatic and the state of the state of the automatic and the state of the the Automatic and the state of the state of the state of and electronic relations.



How did thuse main, who are abar dhore onthe while trange a computer information to the second of the second of the computer of the second of the chan, they say, canno from the handreds of endotes without and a samply variantimized on the behavior, they add, people and a samply variantimized on the behavior, they add, people and a samply variantimized on the behavior, the sample of the managed to three physical indicatives. For Plantace and Blann these seminagy tangbile class amount FLD colle not bas a maniferiation colle not bas a maniferiation

bimagnitien akere. "So we same to think that the phenomenon must be preternatural," says Paulweo, "which means sametring not of our work but interacting with it And that, of course, a way close to the area of thatforal religion. It is our belef must what we are searag centernia very nexty with orthodox religious leadmage on demose angels."

In too, say the day, the evi nature of much UED phenomena is devilably advance. I don't even how snyrene can study UED aboutdons and still have doubte shout whether which keypeteng is good or exit. Pachece adds, oting the silens' disregard of human flow with "When head being doose doubt, the set themselves up as the true saver of humanking in order to instrume traditional Christigngt".

Early comments on Blann and Pacifacto's used have been positive but not without reservations. "That grasp of the data is firm and their position invasible," asy photopher Mohaol Grosse, "but face recogning a firmed, two, there is a strated rade to LFOs, but is does not imply estimate detection. At Jacks in parts more than the strateging of the source with the firmed and the source to the source with the other than the source to the source of source with the other than the source of the source of source with the other than the source of the source of the source with the other of the source of the source of the source of the source with the other of the source of the

-PATRICK HUYGHE



ANTIMATTER



THE WRONG SPIRIT

What causes drug abuse addictive behavior? White many researchers and courselors loous primatily tional, and social compobetawor Christina Grof. for Wholeness (Harper Colins) belinges ad diction has a motochesical foundation. "For many people," she says, the initialitasie of oh cohol or other drugs oreexpension. There is a rush a mailing of boundants, a perse of connection with a greater power that makes you feel as though In Grof's view, many ad-

dicts, be they gamblers provided by the mitial high. "But the fromoutteen." she notes, "is that after the mitel taste of spiritual possibilities, a person drags him or her facther away from the pescatrility of a true spectrum

The solution stars Grof, is to treat the spiritu al deficit as an esset addiction. Once addicts art "quenching the spink ual thirst" through such vehicles as meditation, wi damage hidden or ralgion, she notes, "their re-

SHOPPING CENTER SPERM BANK

nother reason to free the Cheuncey Hill Shapping Contar in West Lefanette, Indiana a sperill-polection bank right across the street.

to some tast-food restau and someone picked up Follas, po-lounder of Follae Laboratories, the fullservice modical lab that

NDIANA'S SHOPEING HAS RECOVE A LUCRATIVE

runs the sports barris

In fact, the media attention opening week, Folias in ted the general pubhe and the press intade Uniortunately, the males of West Latayette they would not nocessanly be welcome to dap 60 some sperm and perk up a little pocket money ter running their de through the rinse cycle. "We're located near the

shopping center to be convenient to the Purdue University oblieto

says Folas, "We don't edvertise to the general nublic, and we don't take sparm from people who walk in off the street."

appointed local residents. since donors are paid at the rate of \$50 per a ceptable sample, which MT AD could add up to as much ne \$2,620 a wee

But why does the erm bank target only college students? "If donors," says Folias, "but one is a college union and the other is a highdrives a truck, she'll choose

Although Folks himself sees no difference in the snorm he arimts that someone has, the better his sperm sells. Our bestsellers," he adds, "are donated by Indiana University medical ray dents "-Anita Baskin



SAUCERS 'R US

Pryng sakoins lundai dor kobby shop shelves across the ocurry this summeri. Mundaotued by the Tester Corpotatos, the tilts jetteto motifik come compileto whi a harbh dorr, as well an Eguines of the alsion-known as gengeand a furnan mBary guad benefician provided by engineer Bob Lazar (jums April 1994), and

or an extra worked stored at Newaski's Notes Air Banga in 1969, the models leature is clear cuber skin through which one can see three levels. The upper livel is anarcked with northoles on the posision The center level features 12 airthways and a central reactor surrounded by tray seats for the alien craw monthers. A craw hole levels to the lower level, devoted to arrship propulsion. "We've mod to make it

THE PLASTIC SAUCERS SPORT A HATCH DOOR AND TINY SEATS FOR ALEN FIGURINES

high-plane and sozentric," says John Andraws, Tostor's diversion manager of plastic kits, "We feel the timing is night" The clafm might mean something coming from Testor, the model company that produced research.



such deep black aircraft as the Stratth Bomber and Stealth Fighter prior to their official unvalings. Last year, the company issued a model of an aircraft many in the aviation field have dubbed the Aurora, though government officials still deny it colsts.

RAISING THE DEAD

Richard Solter was provingent dokt at 1.20 pm on Arel 29, 1991, We live the because the weblecount Yale surgeon and autor of even book takes un to in the Deart A Deater's fro-Deart A Deater's fro-Deart A Deater's fro-Deart A Deater's frodearter was the Own Mantalay Dat atter book to the The suggestron. He had a neardeath ageneration. In the which his mind rose to opperve this scienc while his body lay dead. But that's not quite what happened. Seizer def

collapse suddenly in



the spring of 1991 and did fall into a 23-day coma trought on by Leatonnaired Disease but Selosi was never actuably pronounced diaid and, he adds, his out-of-body recollections are a per profession.

Ti past wanted to tell a ripping good story based on my own meandbash expension," explaine Seizoe, who was deathly it. "and I mended that single climate event. Saw, it wash's a conventional mandisath expensions with readiant left. an anopic choir, and my relatives calling me back. But I did come way near death, and my collesgues and doctors had loct hope." Secon is amazed by

SCIENCE & RELIGION

CONTINUED FITCH INCE 45

Local annual (into the CTU bar), (i) Peters the out of the CTU bar), this is a second of the CTU bar is the constraints of the CTU bar is the constraints agreement. In the the constraints agreement and a strainty agreement is an of land is a strainty agreement is an of land is a strainty agreement is an of land the Lic Tu agreement is a strainty agreement the Lic Tu agreement is a strainty agreement agreement is a strainty agreement is strainty agreement is strainty agreement

But, Peters continues, "You can raise the question. Who says DNA ought to be secred? Where does that come from? We would like to be able to say to religious leaders. What is your thereagy can you use to support your belowing can you use to support your look at the Howe contrakers of the New Restance () don's set any base for anishering hereing ONA and support part and in Howe. But for come to part and a come failing and the term and the come come for the lost to accurate and Ponen working on such a the come come for the lost to accurate the part and g to use much but here the bare more get used in the end of the top any the come and the and work to the top any the end of the top any the such as the lost of the top any the end of the end of the end of the top any the end of th

Arithmic transpassure he CTRE-HCP term has come to grainital till he pretitern has come to grainital till he pretilem of genotic determinism. An ensatchart mer propertied morearing Autommer's direkter, cyste fibroes, come cancer, and als forth-Herve has been a growing feeling in many quaters that human beings are nothing more The belogical indichines proparimated by come beings are nothing more the belogical indichines proparimated by come beings are nothing about any expension by more well bacoming expension by more well and block comes for behaviori a hub such as aggresses and abachean. From a theological perspective, generation determinism is untersable because it leaves in soon for fees will and thankes undeminism the very foundation of obtical behavior. If we are merely machines programmad by our genes, then there is no such thing as genuine human function, and we carent be held accountable for our actions in the space of God--or. I of that matter, by the date

The showing generals takeners to have been apposed to the loss who that been apposed by these who have been apposed by these who have been apposed by the set of the ard that have been apposed by the ard have been apposed by the apposed have the set of the have been apposed have the set of the set of the here appresent bit the two periods and here appresent the the set of the set of the the set of the the set of the the set of the s

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Nonstruktion, classing with scirt space cosins in the light of the new genetics is no percent of cases. With a single that cosmo, black the fill headbilling of a coscosmo, black the fill headbilling of a cosformed David Cale. (Here molecular biformed David Cale.) (Here molecular bimoders) is 1 headbilling of a cost interaction of genetic mutation and the loss in table of genetic mutation and the is cost here in all the science there is form for the will. The purpose in the cost of the will be comence in the cost of the set of the science. case answers a task Pritera acknowl edges as probably impossible but to begin to explore pencially this crucial boundary belawish activities and miligan With the genetic revolution already upon the interligient make team to illustrate II entition theories are to take ac-

definition the observation is to that a region in control address definition to the control to the control address definition to the control to the control address definition to the control to the control address and water regions and the control address and water regions and the control address and water regions and control address and address and address and address and address and address and control address and address address and address address and address a pecipie furned up to fater

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In getting the scientific community to open up to selgion. The question of creatibility becomes paramount. David Cale suggests that a key factor is getring highly respected accentels invelved in the chicusaion. They don't necessarily have to agree with theologam. The says, They part have to be willing to engine namous dialogue." This is where propie such as George Bill and Christic Berns prover methable to the clause. If a Nood procurser, all the region of the second processing in their relego can be entry and thermal to science. Namery Morphy believes this is also where Davies and Parrole are making a difference. The last of the science location and the that of the science location and the theological autotroms that these the theological autotroms that there in to other scientific.

controls gene scottella single andre for losses and to meney on minological terms y is sugget a single terms and terms of the source of minological terms of the source of mails meads to source on the mails meads to source on the source of the Source and Ellis docube 4. It is unwanted common of all spaces are the source of th

To date much of the CTNS's work sell says has been due to the initial need for the Center to establish its bridges between two sides of a chasm t is essential that they be structurally sound history established their own "soundness," Passel hopes in looking scientific communities. Already they are receiving a growing number of regous groups, colleges, and science departments, as well as community orone of the speakers journg the country this fall on a lecture series sponsored the American Scientific Atliaton. Another measure of success for CTNE is which is thing to maintain world leaderatio in source at the same time that fundamentalists are gaining moreseing clearly constitutes an invaluable re-

Yet in speer of left would appeer to be an observation and in modern-basis colors light a constant basis singly to advantage of the speer of left appendix any fixed. 'I have hyperal control any fixed. 'I have hyperal control and the speer of the product and and the speer of the speer of left appendix and the speer of the speer and have the speer of the speer and have an appendix the speer of the speer of the modern Wastern would be the the derma of how to wave the two cut have been by the speer of the speer of the speer of the modern Wastern would be the the derma of how to wave the two cut have speer which were the control the speer of the speer of the speer of the modern wastern would be the modern to the speer of the problem would be appendix to the speer of the speerior of the speerior sp

The Chaogo Center for Peligen and Science testines as anyon back to the deal with these samples back to the deal with these samples are to be theory of the testine samples are to theory of the testine samples are to theory of the testines and the theory of the testines are to the same course for an least height the deal samples are the testines with the same course for an height the testines. Taken the testines with the testines from the testines with the test testines are the testines the testines of the testines are the testines the testines. The testines are the testines the testines the test testines are the testines the testines the testines are the testines testines the testines the testines the testines the testines testines the testines the

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While the Center of Theological In quary if Phrioditin does not spacealize in the study of science and region it is in the study of science and region it is in the study of science and region it is in the study of the science of the science in the tracking of the science of the Science and other calking its science.

It is the work of all of these organizations to begin to recorde the ortical divide between tash and facts. It is a neaccurse which cught to be available not just to Orrestand, but to us all DO

Marganit Wentwords forthcoming book The Ascent of Mathematical Man, atical life history of physics and relgion will be published in 1995 by Times Books Rendom House MAUREEN BIRNBAUM: BARBARIAN SWORDSPERSON BY GEORGE ALEC EFFINGER Ronaw by Andraw Winning

As you might here guessed from the orderone so far (and the word "Advertisement" up top), these aren't completely unbiased reviews it must contess i do work for The Science fisher Book Chit These remines are cur way of toling you most pools we there, you might five Bui I did wast, when it agreed to which them, that if doe harenst is o i only review books that interpreter and and liked

Maxwan Bitvahawi is a book you'd have tooble rhoting anywhere elle. It was published by Swan Press in toolo paperback, but most stores probably won't stock it That's share, because (as you might quess from the tibe) fix ery firmy, Both afforts lave some non-interve at dy different, by the great Kan Kelly, is better and thare's mong of 8.

But of rourse it's the story that you buy a book for, not the pectures (nece as they may be). Prep-schooler Maureen Idon't call ski slope to the plaget Mars, where she met the hunky Prince Ven and learned she was almost as good with a sword as she was at shopping. The only problem was, after she teleonded back to Fadb (for clothes), she couldn't net back to Mars and Van. Oh, she could taleport herself other places, all right (the core of the hollow Earth, amon others), but she just couldn't pet the hend of steering The furniest thing about the book is Mully's voice. I can't reproduce Fast Coast rich did you'll know if Instantly

It's available from The Science Robot Book Club on pp \$8-59



NTERVIEW

CONTINUED FROM FINELINE

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Onter How do you prove the combance of God?

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Oney: What of your predictions, if

Tipler. One was the mass of the top quark, the particle lenally found at the Fermi National Accelerator Laboratory the Apel Onega predicts at mass at 195 page or minus 20 billion electron-volts. Formalia measured the top quarkit measure or 174 pixel are minima. If I im y detectionmations are minima to the second the top quark has measure the top quark has mease to a miniha us to be forwerd 1 peechdand the two years ago in a pager 1 sent to 1 Physical IMarea (Landon and Landon and Landon and Landon and appendents) and the second and the second appendent to the second and the second appendent to the second and the second appendent top the second and the second appendent and the second appendent and the electronic second and the second appendent the second appendent for Nuclear Research indicates it to point to to 150.

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Omry Why are some scientists so approximation of your theory?

Tipler: I am disturbing a political agreement between theologians and solari tets to keep their fields separate Onen. How have follow physicists in

Topie: So fair, mustly with salance. They don't want to come out and concer to they had not downaily working, but a important if fin right To appreciate the bit power of my theory, its executed to be an expert in particle physical, global general instaltivity, and computer seence. You don't need to know finelogy Comer, With the reference of the Physical Review Latava now fail down and beg your forgeneous?

Typier: Ne you kidding? Doai wider free yohi? Poole have store memnes for them matakes. These referees an energytoos and ban make all softs of matakes and gonart comments, and is no site of them roses. But the referees are particle physicities, and indications are the problem in motencients and the problem in motmacher area, you fearing hard of him of doct take in missicably.

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CONTRUED FROM PAGE 61

bit heyre indeclinated to believe that if is wreat to guestion anything in the realm of religion. They seem to compartmentatice science and religion in the torus, and if you date to insoluce the tow worlds together for examation side by sate, you will get hostity and regis and the conversation will be abusely terminated."

To Forber Yorm however shorting down the devide invoice of singletion like Noticel is the hinrig to do He bounces out of the chara and leads the way back to the scent "Here look at this." He down a stry proceed of brown paper from the back of the spectrum the standor We chin ask people to go to many money here when it "Why would in the fraudor We chin ask people to go to intert own we ching to go to the standor We will people to go to intert own mechanism here. We gave people the weed of God'

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Why den't you write about the people, "a man in Wegnis said anginy. That's the important thing," in a way, that angly parationer is right, whether the oil or the blood or the valors are microsoftware of maculation, earthly or heavenly the planomenon is answering a deep human need for an inimate contact with the douse

When Jung statistic the pheromeror, for instance he theorized that such collective visions were orialist when human folia or farmalist were powerfully concrete symmotic time jump beleved that the visionaires hermselves were aften hose least harmselves were aften hose least and the symmotic time desperior longing and learn. This may desperior longing and learn. This may desperior longing and learn the theory for Manar visionaires have beet hotor, were beaster get seeing relupe in a dwine mother

Bits the same theory may also expline the entrymolo of modern-dary visonarios módice class Americans who cannot reconsist a Americans who cannot reconsist and a second second group corpurps and least. With no other group corpurps and least. With no other group corpurps and least. With no other data for the classitar of approximation familiar on their unconsolcute—data familiar on their unconsolcute—data hou-entrophet compension and more

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Despite their seeming sophistication, otherwise to its "ample people" if this are about a simple people" if this area and a source and a source days it seems, and scattered actess the landscape of Subtrates. USA In this enduals outpost of eviluation are the landscape of Subtrates we have it, here's a collective longing for aparticlely, and a cense that the day authorities are believed days.

"I drink there's a general dealuacement with write that are there during " and Sandra Jimaar-Swartz "Poople are dialisated with everything from the soundse establishment is the Roman Datable Christian is the Roman Datable for the table there provide left to the table there there appendix sites. And yos poople have a incidence to emphasize these spectrations 'CO



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While are up to make at the operating the provided of the second of the

Est Controy, author of Report on Communes, says the full Circle and State Thread of Instantial and aucai possibilto communes they because "A state to common the state of the state of the the

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FIRE THAT SCOURS

CONTINUED FROM FAGE 71

counter plants. And we both hoped we wouldn't encounter any other larger organisme

After a while we came to a senas of volcanic comes. "They're not St: Beleria, but I think they could do the tob." I mused

Lapsy looked at the question to

"I wis about an hour away from packing in lowerd 3. Helen's when she blew." I eard "I was luckler than lifty or sixty others."

What were you thinking of? said

"I may be a paleo drone," I said "but live always been fascinated by vulcandlogy

"You sound like Pick " Lacey giggled. It was the first time she'd soundad like anything other than death ance last right. "Is that a Star Tek wer?"

I shock my head. The god Wicen was the basis for the neming of volcenoes. I we always liked the inmate drame of these dreet proplines beween the surface and the core.

"So why isn't your personality like fiel?" said Lacey

I stared at her "What are you taking about?"

Screatmen I don't thris thorait any connection at all between your outer self and your core," said my lowe. "I d like you to be more like one of those." She own tred at the cores.

"That soulids pernographic," I said Laceviauoted "Have a little faith 1,

And then the ground shock. We held on to each other, but the tombole was brief About a thousand feel above us some of the duly glowing lave sloped stat of the bow and occed down lowerd us

") think it's time to get back to camp "I said

For a moment Lacey resisted etaning up at the motion rock. "The lise that scourt," she said. "That's Revelution."

"Not in the version i read." I grinned. We teast you taught me one thing. Now I don't put an s on the end of that r word any more."

"To like to teach you more " She leaned up close. Her warmit seemed publicated into that of the landscape.

"We'll talk about it." I said. The ground again shock

Later that right huided in our thermal blarisets around a container of cerned heat with showin clase to hand all posimilar weapons because the ammuniace heads it turned up, we taked about many things.

And I don't know how one subject led to another

"Did I show you the Presbylenan Church when you violed?" said Lapay

"This one had the species working."

I shock my head "I don't remem-

"Used to have the wincher" said Loacy TI, hoppened when I waa a toanager Poople in Convest thought the uncorns were could. "She shock her here "Staged AI his arter maint was to show a symbol of the Christ". She snaged agenet me "Committy maint the charter like the werdow cut When the glass war put back the unmost the charter like the werdow cut When the glass war put back the uncorns were still there, but with nohems. They'd bean turned into plan of hoses."

'Cute

"I cried for a long time for those unit come. "said Lapev.

"Didn't that say something to you about referous zeriots?

"Just some of us," she said, amiling penify "Not all."

 I was quiet for a while I thought about how a uncom become a honse Why do'you come on the facts expedator? I finally said "Did you think I needed to be belows?"

She arrow her head verterly "Old Mr Humon bill fair he needed has personal and corporate interests usin guarded. He trusts me Laday heataid and then smith. 'And yes, I guess I dot her trusts me armie Jet Shecc Isy here or a white Thereis another hing I guess is aimpriate to me to ford out in mn lived

"This an't Alley Cop," I suid "Never wild "

"It has to do with faith." she seed "And I know we will pack cut of here, and I still think we will find God's chidren both human and reptile."

Lancele

Lacely moved closer to me, her may ples touching my chest. She boarded one indick linger to my lips, drive it board when i statistic to be in "But wend i new worry." Into such wall him not Even if i wall. "The laceboard him not was a complexity happy uterly mover sound. These there exists what I walls toget the terms which what I walls toget the such more sums what I walls toget the such and the source I Man close i ve with the dimossure." She kneed mit signal and spain and spain

I dreamed that night. I dreamed a rightnare and still remambered the scenario vividly when I awoke early in the Cretaceous dawn

Then I crawled naked out of the

tumbled blankets. For a while I hunkered there in the brownish hall-light as fifty and urge driven an any polo oldho savage. I stared at Lacey sleeping. I looked with sorrow at the sweetness of her face.

I would miss her And because I knew there was no other life then this one we both inhabited. I would miss her infinitely.

And then I killed her

I killed her with the showel as guckly and meetafly as i could 1 webnid there were enough of the particiler left to put her to skeep. But she made only a few sounds before alle was guet hier breathing slowed, healtabet _ slopped When my lover was dead. I hulled the muckle weapon as far from each could.

Thowford at the other, empty sky, at my workly writhout Larsey, All finis beicause of a charan? That replantmen now fruged when I concentrated on A. When I looked writy writh my mildt. Bie mages came back. I couldn't beer to uproom them PT i do that, then I would not be able to here writh the statity of what I bed wet drives.

The datero

The perioritopynas graduati soudents, day workers, al exocuting the streambed Skulls, femure, nits, all coming is light. The least remarks, bone transmuted to stone by the alchemistic mineralis, julting cut of the day. Here a corrybiosature, there a struktionaus. Plate-backs and years lings, three-borned bace structure and makes, al data 140,000 millionau.

And then the other remains. The human bones internated in the same stratum, indisputably dating to the Junises extractor

It would not be solely the supermarket tabloads paying heed and depetching photographens. The greater effect we all be elsewhere

And that I could not been, not knowing there was something I could do to todoes the situation

Lief my head tilt forward into my hands, my face fealing like the parchment of mummyskin Loned Tuacey. I stad over and over again, "Lloved you tail love you Twill oversitione you."

I im not suce how long it took. I know it was more days than I had food and water from the twentieth century. I started refiling containers from the stream and scaveriging most from replie carcasses. I als and dank just enough to keep going, because i cidn't know how much I was simultaneously percent mysel.

Most of my time was devaled to the

endless helds to the volcanic canes. If regard single and shrets to carry as much as I could I clambered up the side of the necessal core, idealing this magnet heat burning through my book soles, by this provide the criter's edge and tooleng been into the classifi edge and tooleng teem into the classifi had then I would showe my basic prece by chunk by bit, over into the bet of

The bodies had goes list. Then he equipment. There might still be some of Ohuck Furtado's smaller bones in the belly of some anonymous demonythis somewhere, but that would have to be the risk I diale.

I disposed of everything I could find

It was all gone, burned and method back into the enorymity from which it had come

And now it's time for the final dispotion. I throw the showlight the catket Then the partial is to logit—copolosity listew, but it was the concession lives willing to make to being a scientific I see the pages farme who burning analytics before the book is failway to the lives. I nees the catheten and the tarp I used to datag the odds and ords I dispatched the list

Now here is only one matter left I stand posed on the brink of this unnamed lumiel down to the heart of the world. I really cannot leal the heart of the too numb.

The last picture in my mind is that of Lacey. And of the symbol she wore among bird picts.

I think about her love, and mine That a sli

As I prich forward and begin the long dop into the final fee that accurd, into what I expect will be nothingness it occurs to me that I am watching all will know or ever believe, of hell DO

CREDITS

 $\label{eq:response} \begin{array}{l} P_{\rm eff} \in 1 \ M \ Constraints (P_{\rm eff})_{\rm eff} (P_{\rm eff})_{\rm eff} (P_{\rm eff})_{\rm eff} (P_{\rm eff})_{\rm eff} (P_{\rm eff})_{\rm eff})_{\rm eff})_{\rm eff} (P_{\rm eff})_{\rm eff})$

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TIME IS NOTHING

rection only, cause precedes effect. and our down subscript malify parton of the universe, and our efforts of undepartmenting must increasingly take that

running down toward disorder and hest body clock. Conceivably, the universeclock may be rewound after the bio collagse. The infall of matter after the tert and grawly pulk it book may be cycle. Or the universe may expand for-

What we call time becar with support the different kinds of

no time, or space or melter, and that seems impossible for us to do, both faits we magine a necessarily roughned eternity of some sort, requiring no beginning or end, though a lot may comes into being through our incepeo cassion and change "are the moving, and imperfect, image of stempty ' Time is a ministruction fact we have with the one of the clocks, measuring one kind mence, in which a day today will be a million years

But if we stack to seceral relativity. quantum theory and wave mechanics. we can give answers about the nature scriptive mathematics, even though 114 QVN

an entite museum of paid, speculations The constraints of general releasivy compel us to reject the containerfile character of strackite apace and ame. from physical events, that in fact it is proloundly a part of an expanding space-time, and that time apent from ingless or beyond our honzon of understanding. In a universe where optimize causal order (cause precedes effect) eccenence of time for observers as a piece of iron generates a flow of elecbut not sime itself, which is a concepspace and time may exist they are not created by the movement of the car through space even though we used means we assumed time as we blod to describe how time is generated whenever a clock is started What the above disatolies in identi-

gravity, must be expressed as part of a ship Time is not understandable as a ditions of our universe.

A cuality? But what is It? A term in a ton and imegining. What of time putsuis the conditions of our space time? There may not be any, and this might be all there is Or absolute time

nie superspace, gwing our ing outside of that reality.

earminate them because a A spetial and temporal inus deeper into wonder. sometimes productively

guing confusions. Metaphore and samtwos written inside a vast system

Mathematical equations isolate unknown quartities and make them work are, at bottom, except what they do in the relationship. We learn the nutrible In toell. The answer is plwave in terms

The asswer to a scientific investortion tells as. This is the way it is be cause we have repeatedly observed found ones that hold in our experience

TIME IS A RELATIONSHIP ACCURATELY, WE ARE ONE OF THE CLOCKS. MEASURING ONE KIND OF TIME, ANIMALS

We live in a vast spherical, or perwhich generates in our minds a sense of space and passing time. Our bodies according to Rudy Rucker, and are in fact time mechines, retaining aspects The superiority of toolays science, with its experimental and mathematical

forever."

"Some thirk true is a tiver."

Common sense and intuition are deformidable tools are required

one winds it up. It runs a distance and



In exemptor large *i* from of appure to the provided in the transmission of the transmission and that appendix that the transmission of the end of that appendix that the transmission of the end of that appendix that the transmission of the end of that appendix that the transmission of the end of that appendix that the transmission of the transm

We can find this same "in terms of method in every apport of our twos in an equation or a low after the specific context generates all significance. When we ask temporrient guestions of a cosmological or ideological lond, we feel that they don't it in with our expersistent is scattrice the foldness of specific terms derived itom observation, messurement, and essentialer, as well as tom what may seen to be attrtrary definition, gives us better equitorials interaction better equitation and the second second second when these second better equimaics contentials introlledge we accumute the language and a whole and of the said introl integrands an optimity and many fails out in sheed and a whole and the said integrands an optimity and interactional second second second better of the said interaction of the said integrands an optimity and weaper to the said optimity of an unconducted weaper to the said optimity of an unconducted weaper to the said optimity of an unconducted weaper to the said optimity of an unconducted

One is had to suspect the three is sorting to ornsor is in transcorter question such as "Wey is these suptimations and the three supsections and the support of the support sorting to period it was not approved in the universe?" The sum and to period it is benefit in the support of the universe benefit the period is and the universe universe and the universe support whether we would be initiated. I such universe would be initiated in a support whether we would be initiated in a support and councer.

The beet introductory insight I know

Initial bie installante of lavels concess from Henry Reschergenzin for Arhancord to Manacord and Statustic and Trans. Since the concessce of an orienteric antibiotic of labels of labels of the company installant of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of labels of the labels of labels of labels of labels of labels of labels of the labels of the labels of the labels of labels

And yet what can there be " we contrue to ask prevenally," theynof the quantum mechanical wave function ther may served when the down to deacrote a subtverse in which the electron takes every possible path?" Newton's bicrostray table perhaps on which our multivate sate and/secal in a crystalline sohere, dreeming that it is revendent DD





that the one caused the other. This surlight somehow proted up the image on the back of the mixor and cast it on the wal? If so, it worked for batter than they could have dreamed, beguing observers and even scientists for more than 2 000 wars.

B) Advertise is assume that the Constarrowment is assume the that Constarrowment is assume that the Constarrowment that mention arrowment out, significant because 16 is a number of power. If is the 16th Contri power and the first mumber to be a power 16 two different ways—C and 4². Section at the only number to be a benefits as all and D² vitrage a and b are differal. In polition, of a 4 or oppose the anoppose the vitration of a 4 or oppose the social environment of the base functions and the serve.

In power sports, 16 peanets is the memory weight to the meas shop juiand hoarmer, and it's the maximum weight for a bowing ball. Each pound is further stabilities of chess and checkers, each player starts the game with 16 picces.

The canter of power in the United Stans is in 1000 Perreyvant Avenue the address of the White House. The Insuse number begins with 8 the 16th istar of the street begins with 8 the 16th istar of the street begins with 8 the 16th istar of 10 the shiftshet. Truncels one zero from 1600 to gat 160 them another to gat 16 Add these three numbers together to see the numerological significance for this country.

Perhaps the two greatest presidents wass Acriment Lincoln the 16th and Frankin D Poosovalt the 32nd (twice 16) FDH fast elected to the office in 1922, was chaster by the people to save 16 years (but storms).

Musically, there have been "Soleen Candias," "You're Soleen Tors' was a hit for "Termessee" Erne Ford, and Ternassae is the fifth state

There are 16 member nations in the powerki North Adantic Treaty Organization (N4TO) humans have 16 teeth in each aw and builders traditionally leave 16 inches between stude in the well of a house.

Zerger says his headdoctmal devotion comes manually. At Advam Satio College in Alamosa. Colorado, he Headles and his his office in a 16saide builting from many of Jacos mo there?, nght of Highway 160 Evan his office mander—#136—page respect to the humber 16. Its the sum of the humber ison 16. Its the sum of the humber ison 1.6. Its 16.00

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TRANSLATED BY: Not Rissing

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high-quality sampling."
—Publishers Weekly

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CONTINUED FROM PARE IN

win danging from their books. Way to got Novackeys it seems like most peopic pernie moca measity, by taking a builds in the bely and falling off a platiom or high beloony in a weehouse, it dwinng a cas, they attain exploids in a likeball or creati through a plate glass window.

Of course, they aren't given much of a chance to prepare in less volent innee-end fiction-many of the chicactars had enough advance notice to compose thomselves before starting to decompose

There were several popular approaches to the there, or provided on ecrem Chei was the "Now" can really approache? reaction, incoming that one was seeing or doing something for the last time ever. Then there was "T only I could go back and tell himherit how sorvil (am." But perhaps the most poosorvil (am." But perhaps the most poo-

day was the "One last third" theme, in which blackface youtewale performers sang about seeing their dear old Mammy down in Virgining while secondly yearning to wat their clear old bark account own n Betterland

Bit never mind Vauctivities is dead and I soon will be and doing phik about Swiss barries dealint help me when in finghaned of loeing pain, and of not teeling anything at all. Of what I know and of what I don't know.

One would think that after a long frome. I'd at least have learned a title scenething to pass on to future generations, a little coursel, solvca, or just dam common series.

But all the learned is that sense set in recessivity a common corritody And expansion has larger microly what it teaches everyone in time. I and and you lears in finish, today's control and pour jou invaries today's control to pomet to sometbody also if its corready, but whan it happens to you fit appendix.

A lew years ago I put down some of what I know in an autobiography Bab Once Assourt the Black was not primarky intended to be an instruction manual Writing my autobiography was fut, Living a was not alwase that entertaining.

Actually. I was writing in self deferzer. As a longtme frantisky writer I was aware of my eminent obleagues in the held, and while I coultent compere my work to that of an Esgar Allan Poe or an H P Lovecnitt, I did chare one Imig with them in correnal—a withhisbilly to the biographers who occuld come up with their own version of a Me-stry after is subject was no longer accord to clippte what west sud. Therferred to tail the truth as I awa it within than be Grassolidad the Poe or De Gampoil (we Loverat).

At the time I radically had no way of inserving that thered be few other apperturbles left for me to add to what if or wetners to them were it if of northad I digital (northad) to any about perturble to the service of a service to norm this sectors probably where the text distance I may have to express these distances I may have to express these distances I may have to express these distances I may have to express these distances.

Furry they is, at the moment these things no longer seem all that importunt. Practically all loar offer by way of philosophy is that I think human beings are wonderful on the relaxed. I would the whan they act as a group that the mob becomes a monitor. As to personal attrack, it man intert the foundtrial mass ne tool a reporting the time, was that he'd not be around a many of the other anyof his otheranes. The reporter work to his boos the editor of the New York Zwenny Sue, and the next duy they arranged to san a big baucolarm spread about the old mem. Banarus was so pleased which he saw a that he parket

Maybe that's why i'm writing this hoping i can stock arcound long enough to get a reaction from the news. Or maybe it's because I ve spent the list and it seems hotcal to write one more time, if only to say goodby...

Drive word gets around—once the car is let out of the body bag—people will start calling to inguise how I am Actually they won't all be all that curous about me, what they I really won't to snew is about a wator called Dath.

Death will be coming to our house for an indefinite stay, but while he's there this unwarcome guest must be treated as a member of the

00000 05

And that's what will make the callers curues What is this living with Death werty-four hours a day? Does he make special demands on our attation, interface with househeld routine, disturb my confront, charge the ways i and or idee?? Do we worry about him conforting the ways i hem flat and foremal in our two-other and original in our two-other and original in our

rely be-Right new Float's quiet automatic transfer quietacris but expect to be able to do so soor Wey soon. One thing is array of already ofers—we don't look forward to alleady ofers—we don't look forward to alleady and the source of the able to all the source of the able to all the source of the source of the alleady of the source work of a solve the source of the source of the solve the source of the source of the solve the source of the source of the solve the source of the solve of the solve the source of the solve of the solve the source of the solve of the solve the solve of the solve of the solve of the solve the solve of the solve of the solve of the solve the solve of the solve of the solve of the solve the solve of the solve the solve of the solve the solve of the solve of

He won't go alone but he won't take all of me with hm, other A part will still remain behind 'unti' paper countbles, film disolves, and memoties fade.

Who knows? By the time these things happen, you and L somewhere or somepiace may meet again Anyway the use to have any

See you later. I hope DO

Robert Black is even of the true masses of hears and asspanse before and Rim. In six remarkably productive decades he has vestiles in unhally away galate and sight The most horscen of he books is Psycho. The least of his books are bot for writin and most calculation and that has most of what file our bostshele hes within some 2 when

IVE SPENT THE LAST SIX DECADES WRITING FOR AN AUDIENCE AND IT SEEMS NATURAL TO WRITE ONE MORE TIME, IF ORLY TO SAY GOODBYE SEE YOU LATER I HOPE

> ing Fathers may have, sincerely beleved that all men are created equal, but apparently none of them bothered reading the New England Journal of Medicine to find out about genies.

I don't think I suffer from delusions of grandeur about my own status. All my ceneer has been apent as an entertainer in the ranks of what is currently labeled "pop culture".

Con herein that, but as an effect I retuse to equate my work with tagger grafts, the desagner-kisel art displayed on 50-pound large of aliver manue, or the masses anthen in & Socion Donne Dan.

Deeling with such time is scarteely a host-butten item with me but putting such distantiation down on paper heijes distract from my stemach-churrang awareness thus pen fluttin from than anything, only so much sand care be fluted into an boughtes, and that scene. where there's a boo-tag with my name onti-

Remarks me of a story about another entertainer master showman and ecomarkac P T Barnum During his

GAMES

FISH BOWL A bronze basin spouls water and Ommiturns Sweet 16 By Scot Morris

Last month | presented the curves 'mage mmot,' which cases an image of lastaba on the well even of lastaba on the well even Equally mysterous is the "spectrary bear" shown here (bases) last is nocent reproduction of a "first Washbeam Psurtann,' a curves y han the Mang Dynasy (1366-1654) The delight case on the bottom epotring last, cases of norepotring last, cases of nopotring last, cases of noar (below, ngrit)—i we messizeruit opera owe 20 inchos above the water's surface. The four antirocides where the vibration is strungest, concespond to the four deal stown on the bow, creating the impession that the fort are oppoung weiter from their mouths just as they are in the potone Joseph Necham, who first deschaft the bowk in them bowk on the line.

Science and Civilization in China (1962), speculated first the spouling effect was can become reality

I got the bow's the phobographs liven. James Defgrity a pazzle collector an Sameraet Engand, who has experimented with strais towis from China for 12 years. He says that, while not bow's sport at four points, some will rescribe at service agint coarts if you not the handles hander and

"In trying to reproduce the effects." Dalgety says 1 found that an invented alu costs 5470, postpaud, by in ternstocratimoriey order He has larger and smaker sizes invaliable, and he costituais to sel magic meroes tor 475 Contact Atingma Dostgris, Manmead, North Barrow, Yocki Somerse DM22 712, Endand

Expectated list month about the secret of the magic merce and metioned that the consensus of mercy Westers societat who has exampled it is that the design coal on the mimors back.



Hill the full with water, we your heads in the bardies slowly and institution cally, and soon the bowl be graded downe With a lifet practice, you can gat this spsake down belt to resonate at the instant tone, just espu can get a champagne glass to ang by rubbing a wetlinger area in the set.

As the bowl resonates, spiples form on the welfer's surface, concentrated at four ponts around the nm. Then the welfer begins to "boil" and spisah dropins into the tor, one proclaved by the time of sporting waters in the design, when contrast about hollowy us the states of the box We may know he was motived. The visition of one of this is, by the repensal one of the states of the sport work for careful the base both of careful the base they contain the base they contain the base base of the base of about the base of about the base of the sport here in the base of the base of the target about the the base of the target about the the base of the target about the base of the target about the base of the target about the the target about the the target about the the target about ta



minum wokilid worked best though it's nothing like as spectabular as the bronze bowls."

Dispery has acqueed the book many for managtive openso context in Fingland, though he sold two to the Reubert H. Fleet Space Castler in San Dego where vasters inn up to thy out the "sechast bowd" from Chrise Dagley will sell the Chrisee bowle by met onch, but they are not chrosp. The one shown, about 76 inchesion diameter.