



PRESIDENT & C.O.O. KATHY KITETON EXECUTIVE VINGRAPHICS DIRECTOR FRANK DEVINO

DEPARTMENTS First Word

Travel By Wistoon Knutree 9081 Wheels

Political Solence

By Linda Morso Chelicaconst betechnology Anima's

Do elephants ever forget? KM Stuff By Robert K. J. Killhoffer

people behind Games





ages the author Emport



Hereny mayonck scientists scensits do c natead 52 lessand HIV: Assembling the AIDS Puzzle

Continuum 34 By James P. Hogan

dearness

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FIRST MORD

POST-TIENANMEN SOLIARE POLITICS: Should scientists engage in human-nohts gampaigns? By Fang Li Zhi and Richard Dicker

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Should scientists be engaging in these types of activities? There is a longstanding tradition of solun-

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READERS' WRITES Science unsuffied, of egos and egalitarianism, and can you hack a bit more off the sides?

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Mark Tyler Derwer, CO

On the Bazzletrans
Your article on carnor (February/Warch

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John G. McManus Watefield MA When Crity a Minorio Will Do

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Arnold J. Wolf, D.PM Houston, TX DD

TRAVE!

THE ELECTRONIC CAMPOUT High-tech trekking keeps nature intact

By Wallace Kaufman

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WHEELS

AUTOVISION
The art of driving while watching TV
By Steve Nadis



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POLITICAL SCIENICE

STAR WARS THE NEXT GENERATION Has the time for particle beams arrived after all? By Tom Dworetzky

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or space, along with advances in seners and optical corrouting. that our robotice dreams are reade of At the same term I clarif this corner of the galaxy any more dangerous than it streate tipped missies possed for the black market in fact, 6 might motor our world in little color CC



out for it. More money for the mistary just perpeduates the problem of violence, she argued But there's violence, and then If we're going to cut down our Department of Defense budgetstrength around the globe. which I'm in fewor of-we must tween the Cold War and a single world government. What we've down of superpower hegemony is a resity brow of high-tech wesp-

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ELECTRONIC UNIVERSE

THE BEST OF 1993. A glimpse at tomorrow's electronic fun



By Grego Keizer

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HBO 1995—the treater in Managed the Manage



EARTH

Burger deluxe, hold the biotech By Linda Marsa



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ANIMALS

WHO YOU CALLING DUMBO? Researchers test the elephant's mighty memory

By Steve Nadis

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KID STUFF FINDING THE HUMAN SIDE OF SCIENCE

Wise books show kids the people behind the test tubes By Robert K. J. Killheffer



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KID STLIFE



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CONTINUUM:

They know more about pizza than serosols. Plus, how beers cross the road, and what may soon be missing from the salad bar.

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-Steve Nacks

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CONTINULUM

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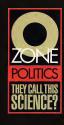


ARTICLE BY JAMES P. HOGAN
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Einter centralis see welch hunting hydrains, the Orusades gald stemper properties of the Control of the Control

rearresso control sercosnopers, or CPCs, we're told, are ealing away the ozone layer that shields us from ultraviolat radiation, and if we don't RESPONSE BY FREDERIK POHL

44The theory of ozone destruction by CFCs, though incomplete, is robust.77



44The idea of the ozone layer as finite is all wrong to begin with.77

cancer in the United States alone will ree by hundreds of thousands in the are about to suitond through legislation doesn't seem to comprehend but that sparked, less efficient, and generally reminerant of the things people 1900s. And the comestic side will be Inperated warehouses, trucks, and sunboil states have prospered during possible by air conditioning. And to deselected by an conditioning. And to be effects will be devestrence native of seeing the planet seared by lothal imade of parishing service makes a pretty good justification for whatever drastic action is necessary to prevent # The only problem is frem and one idence to support the contention. The decisions being made are political divwelding a power over public perceptions that is totally out of proportion in

OZONE REALITIES

Fee, J.m. that really is science. because that's what science is As the late Richard Feynman grees of certainty-some most un-

powerface to try to pick holes in it ary research on the subject until

SICILADA PRÉSE Are CFCs dong it? We know that memorstreperi in the lebonatory, but enhara Ther's meangermous The atthere wouldn't be a problem, we atmosphere is contratally social-

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The CFC reaction, however, has one guite unique quelity. That is, if is, ess that we human bornon have any at all stopping manufacture of CECs.

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show that it has been decreasing—by as much as it percent in some places over the last decade. Old narrly, a scientific hypothesis

doton would be damped right fleet as 5P Dey be Ray—former govern of Wathington axis, charmed the Avers Brings Commission, and a scoeled with the US Bransaud Ocean and the University of Wathington—but 1. Then are foot in score Sourcests and the University of Wathington—but 1. Then are foot in score Sourcests are capable of developing their own strategy fiscations, just 164 arrivers of 50°C. Their though the physics makes of difficult to see how the ration of commission and their second strategy are seen and subdepaged to some two-

or has inleays faconated an opcoallybe line with these been beeing pools. Bit candidates for more than 40 years. Bit candidates for more than 40 years which provides the properties of the properties exist at the Atmosphere and Cescrymona 10 Beansoo Division of the Lawrence Uvernore National Laboratory. These has been a rared but concerted program to build the gossibility of more continuous properties of the threat requiring operations of threat requiring operations of smoothes me of CAP (Calmatic Impact).

in the 1950s, it was A-bomb testing in the 1950s, it was A-bomb testing in the 1960s, the 957 in the 1970s apparent leads to be the 1950s and 1950s and 1950s and 1950s, between the 1950s and 1



arctic. This, if was proclaimed, con-Molino at the University of California at be attacked by CFGs-which had come into widespread use during the ness that makes GECs poppormsive would enable them to diffuse intact to are. Otherne will combine with one of and a normal two-molecule oxygen at ious by postulating an additional chain

tar of a morrie chicago, atom arrows arrok in the stratosphere, gobbling up activate severo a cease politicane ri ht with a few west faces. And if you

First, CFCs don't rise in sepreparet cause ozone absorbs new descrivor Darmal "Yversion"-it outs warmer with attitude rather than cooler. As the trees atmosphere and the stretoupo her there beforespect of altereds. At the UVC negatrates this deenly.

arrian for them in collete with for everau CCC - and autous ship anactor, will are allow the has CEC molecule three

majecules will still be consted for every CEC molecule that a horizon up. Hantle An test what about the catelytic effact wherehe one observe alon can

Not really. The catelying proument demonopade and free govern atoms. But the changes are much higher that a warnotife of rooms oppose rather than one of chierina morosoda. So onos again. probability fayors grone greation gives

stratosphere along with 48 different idenarrisms that are only partly understood

> **6**There are fads in science are capable of developing

their own strange focations just like anyone else 9

about in a laboratory and clareing that more he a way of getting to a prede-Hours a thousand times mose chlores Yes High concentrations of chinis abank doly nothing to link the obtorne

from the other end of the world. When store downward from Mount Francis, on notive volcano vectoro 100 to 200 toras of chlorine every day, and that in 1963 e everaged 1000 tops per dev condenses in Adarts2 about 11 million tons annuallyto times as much comes from the neause by a factor of ten with a appoint large on information programs that of Tana bora in 1815, which pumped a mine mum of 211 million force streight into the atmosphere. Where are the records of

presumably have followed from the conmillion tons of chicene are contained in mon can transport 200 milion tone of air per hour into the stroughters, contarring 3 million torn of water vapor On average, 44,000 thunderstorms occur concede to the depletion theory and alalso compared to what gets there nutof of human industry (and we're only talk-

flake in a blizzard Despite all that, son't it self true than years and is getting broker? What in 1985, a sharp, unpredicted do-

care was reported in the mean depth of ozone over Halloy Blax, Antarobon, Alattractors between 12 and 22 laternators 'color vortex." it was all that the ozone domeday pushers needed Without consensus, they decaded that this was

anythere the accoratio community had course for inspense, in that an unexpectearths towards an other Antonochic worker. British scientist Gordon Dobson in 1056 -- seton CECs serve horsely in time written in 1968, he notes "One of the most eternation results which ontwicel Year was the discovery of

A toast to the glorious legend of Camelot.



Figure and by June 33, 1993. The Smakin Hed Frenklin Center, FA 19091-0001

Places enter my commission for the line pender Sandhar Gablet Collection with control and by Advance Society No powert is required now, I understood it

will receive my complete set of my existent in one chiamers and will be billed \$450," in the equal mentaly installments of \$45° ands, well the Sort poyment due prox its shipment.

cere target

use low. When it sucktorily broke up in Nowember both the came volues and ly some " A year other that, in 1955, is penser drop was reported by French so-Dumont d'Urville-larger then that causno all the hysteria today. These mean percents were on the wine of observational capability, espe-

castly to an envisorment auch as the Art. frem with caution. After the 1965 "clacreary, NASA consolvant to retelline

ly throwing out low Antarctic ozone readnos es "unistable. The real cause is slowly being unrav-

oled, and while some correlation is evedest with volcage employs and sunpears to be the extreme Antarctic writer conditions as Doloson opposity support. ozone from ris primary prestion zones pleton can't be replaced because of rounding high-intraction reservoy regions. hole leads only to spring values of

lay of two less than those expensioned

But on't it getting bigger every want And aren't the latest readings phoweter decision elements and the seasons, and with solar activity. And In April 1991, FPA Arthresonator Wilham Redy arrounced that the gapre lay or over. North America was thinging duced the figures for searing deaths from skip depose. They was bened on Ite I talked to Dr. 8. Fred Singer of the Washington based Science and Frying the principle of UV backscatter that the tell from one support media, was her comment. The data are too now. So: astellite observations before they can

establish a hand." In other words, the cates in the Cotokello beholder, not in any facts he heholds. February 1992 nav a report performtected birth values of chioose moressize in the northern stratosphere. Not of CECs nor was there any existence that

South Pole was maintained late into the ... ed. nor any mention that the Propositio most as if on oue, the U.S. Senate nassari an emerciment only han cleve later calling for an accelerated presenthat NASA's budget was under rower NASA has since conceded that per mean-total coone declined about 5 pernext from 1070 in 1985. So what? percent And since 1996, it has been

increasing agen (although that part's left out of the story the public gets). On shorter time scales. It changes naturalconstant and never was it vance with south from the squarer you are with

GResearch proposals to explore the other side of things are turned down.

white dopmsavers line up for running into the millions 9

that gradients it tett grimming on't done to purb CFCs, ultraveolst redestron next 20 years. But from the poles to the equation it increases network by a whopsix makes. Or to put it another way, a farm-Colores as in rearlicted by the secretveters—easy by movement to their expression

Superposed on this is a minimum 25. named sweet from surrows to writer teen that follows the surgeon racio Fanote there are country the high interest figns, electrical storms, and the like on he rissered from in all this is like toyon to define see level in a typhpon Skin cancer is increasing, neverthe-

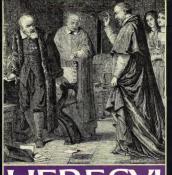
less Something must be country if An increasing rate of LV-induced are receiving more exposure than they would if ogone were being depleted. (In fact, it's decreasing as we sow early lacts for better, such as that sun worof perventions, or the migrations in comfor metanics, the white population of Aus-

ervised no stan-concor increase)

you get nearer the equator-not be region the water becomes more letted but because human behavior changes Away Nevertheless, when it comes to aten canner. the Nebonel Acartemy of Sciences (NAS) has decided that only gle of the out they determined that o 1-percent decrease in econe equation How you make a disaster scenario out of this, appointing to Filenesser, in

turily measured over the last 15 years. have been recreasing again arios 1966. and extend the 1979-1986 slope as f it were going to confinue for the next in an established fact and apply it to the entry U.S. population. Whose Accordng to the NAS report (1975), appropmotely 600,000 new pages of searchest per occur arountly. So, by the abovea 1-perpert ozone decrease caves 12 000 more ston cancers. Presented N 1990s through the next four decades tives 25 percent hence a 50-nevent 300 DDD pew gases in the year 2030 A.O. or 7.6 million over the full negard Single the model or rate is new and 2.5 novcent. this gives the EPA t "200,000 ex-

tra cleates in the United States alone " As if this weren't fisks expush, if a posgable that the letted versety of skin canner has little to do with LV exposure, anyway. The cancers that are caused by radiation are represented by their convention with lateude and length of ex-



HERESY

Modern Galileos









ARTICLE BY ANTHONY LIVERSIDGE

The New York Times frortpage heading read "After 130 Years Motors Says Galling Was Butht It Moves Following a 13-year panel of scientists, theolo gians, and historians. Pape

that he had modern that the earth moves around the now acknowledges, have tribunal throatenest with locking forced to remant. banned from publication. his Me to his country estate. confirms. Galliec was none

great accented betting world--or in 47

Some leading scientists Gabbao's ideas only foreshutting out new ideas as

scientific establishment homeographs or astrologers.... restordans beningly hostile to ductive men and women in

"modern Gatileos.

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The physicians open reinds. Three on the part of the

scence are turning a deaf throughs in cancer heart disease. ADS, and the throise worses their risams that a hereac in science. breamer and resided cont. gain a for hooning if he or

> gup often anem justified hold name as a worldbook on diet. How to Live Longer and Feel Batter in 1954 and the Nobel Peace once in 1962 for westons James D.

Busines is bala and bearly at 92. His cheeks are rosy clear and sharp. He seems is a querer in his voice Phisting can brief sournalists work, quoting a slew of

Ohia some meny other

Pauling "the greatest of

What Pavino is asked C in large ricego not only wards of colds, but sizo the major affirface of Western man-heart dis-

The spry Paulog seems a hypo testimonal to be own penetata carpar? Busing

even as research price up to suggest Phuling is correct. has gooffed and hiprivati publication of his theories in

The Proceedings of the National Academy is the cyclusion club in science.

prevented from publishing The oddor was adament attrough Pauling objected in the Proceedings without

A new rule was speedly pooled up, clayly to galify blocking Playing All now be reviewed before also rejected in 1991. There was prove danger, the

ever to challenge their Cernored by the Proceed Dalveo. "Verily sust as the toth "

A recent review from wholming that wtaming C preventing garger A big saudy by Dr. James Fristrom

by that large daily drawn of witamin C out heart disease and condouth in women

to life expectancy. It seems that vitamin C works this arol at octmum levels and also by preventing it from None of this has made prize in 1989 from the puter Pauling's aim was to pursue he new ideas in the

metals and allows the held their ways " Another acout with the point account" in his grant application. Paul CENTRAL WAS REPORTED OF their wasn't enough

have trouble getting greening loanstunally "Most one t have been night so often in about yearren C. too I don't howe any brouble with them. medical ostablishment

shout menovatamina confuse vitamins with the drugs that have proved offection accurat disposes in small closes and which are tood in large doses. They fel to understand that while small closes of vitamin C 46 OMN

Duesberg



"People naturally reject a challenge to orthodesiv. But the scale is larger than ever. I am not aware of anything so entrenched

to students for lifty years. saying higher doses

The National Academy of Sciences in response to set up a committee to condumn megadoses of

Paulonia foundation is general, judging from the German meteorologist A. L. with generalized husbity

> years later, mechanisms of piste tectorics and sestion spreading were detected But some of the brinders come in medicine. Louis microbes cause disease

struccia, complactors of

after weathwarp public attacks from his founds in The most bistart case of In 1847, the young Vennese doctor simply ore. rived that his colleagues weeth their hands with distriectant after dissection

death rate of mathers in his record Sommelwes only was hounded and of Venns by his superiors. After provincial city for some a dissection wound and the

Knowledgeable observers are wondering whether

establishment boselin Duestherg has run into a hats an his field, by the medical profession, and by modernment field of AIDS Unike Semmelway, howay activities, "perceivy to the specializes in Nirowuses, which the Human Immu-

> HIV in the lab, Duresteens is medianno for this decima seem impeccable. The National Aparterry stress 1986 for achievements to denote the names of

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oncogenes held to cause not Duesberg. One reason notonous for his skinotoness Although the field in technototic and well fundod, Dusabley timusel has incompositive yield the sundorcod any belief the sundor claims or insularia proof that a gene of a coll over cassed carear? Dusablerg says fasty. Not one the only proven choogeness are carear or compositive to sundorcod provided to the provided of provided to the provided of provided to provided provided

Choogeness date central by the among indemnines and, Jonatelley, are very untable. Your be possibility or fraceby very separative for the object concer gene would be loand in each of the 100 million code in the human would be achested the too other lot us to live as large would be achested the too other lot us to live as large as we do: Already describly unpopular lar for this very Chaptelling.

He retrovablegy cellleagues at the reluxed to argue, clarming that such doubt was about A amaltaning of preas coversign letted in response, however, and Science floatant at limited. Fourpage debate between Duesterg and his detoutors in 1988. Each side was allowed a statement and robuttal, but further anguThomas Gold



"People shake their fests at mid. And the venomyou have no ideal" it's incredible. If they could, they would burn me at the stake."

ment was straply call of to Doseboay transfer by the Proceedings of the National Academy to prese the case Ameng many reasons for the Strain and Stra

have consessed faired to come true in the United States, especially for fraintenesseab. To case, he're published to articles, some 15 000 words in this prestigeurs journal and its been an upnit battle all the way. The odditor of the Phonesterge entitled a pholent of special streement—36 at special streement—36 at 150 pcs.

could identify a single unconnectable have nised or logic, as the eldons activities of continues of operation of operation of operation in Proceedings refused publishes on of his hind pupper in the series. The fisher of Drugs in ADS Ducscorp was larged to publish it in a

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if any of their own exclence to contraded his more than 600 references to published evidence. "The responsible composition angiounific based, and discriminating his says," it volume successions and the founding periodic of the Academy, to evaluate and discriminate knowledge." The leastern MM composition MM control MM control MM control MM control.

determinate knowledge. The leading MV propomers soom to have trouble in genurally arrevening buesberg. Robert Gallo of the National Canoor Institute was sepacted to reply to Dussberg in the Properdings but in three years had nover done as Califa owenhalpy demised Duesberg in his to-

to Dussheng in the Proceedings but in three years had never done as disting membrane done as disting membrane done as distinguished by the processing in his sur-histography, as former in wheth, shepton pointed out was such intent to company, the strategy and the sur-histography, the strategy done and the processing of a Procety point to service Dussheng to the sur-histography failure the purple of the pur

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world have great the Group

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of furties that resulted in "localisarium scierco," he says: "I am not water of anything in history so entereched." Another example of a motiom Galloo where there's a greek deel at etable is Thomas Gold, the Comel cosmologal. His original islass have been overopposed belonginat his issues, disprie

on to theory of hearing, proposing the size half he may agreemate as even been that he may are generates as even been the man to the heart hand to be seen the size of her and a conference of cychies specialists. Studies build one family entitling sound from the east bud enough to be heard without installment of size of the heard without installment of the size of the heard without installment of the heard without one heard without one heard without of the heard without one heard witho

band to allow Gold loon time, calling the motyler (many) "Liste, the dame holgen is pacer with there would man holgen is pacer with these word and holgen is pacer with the motivation of sense are relating needed as sense are relating needed as sense are relating needed as all the pacer of the sense of any which have converticable sense incide out. Every actual lest dealt and which have no one-placed with the of lest of pacer pacers and out which have no one-placed and out which are the pacers of the pacer out and are the pacer out and are the pacer out to be a pacer of the area of the pacer o

incapnes of ritiline

Pelice soleritists and patroloum angreens great his scless with rage and spire, he says. "Pacopie shake their fists at mel" he reports. "And the ven-

There's always the possibility that

the new idea, like most inspirations in science, is wrong. The issue is

one of fairness and prejudice.

em-yes here no deal if it nounclaide. First could, they would burn met the First could, they would burn met the Employee in Geller work of the Employee in Geller her work of the Finders of the Council and the Finders of the Council and American and First. The stage of a finder shall be a series of the council and American and and Park The American and American and The Am

Gold ford to explain this squatter

The Ingris of Scientific Thought " Why.

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or far anyone to admit that a metale might have been made.

Gold guides Tolstoy: "Most men can seldom accept even the simplest and most obvious buth if it obliges them to admit the fall-by of condusions which they have delighted in configuring

which they have distiplied in explaining to colleagues, which they have proud by sugget to othere, and which they have exceed the trianget to othere, and which they have wown thread by thread nilo the factor of their level. "There is also business, Gold notes." "Supring with the head neado no publication." Doesn't everybody between that".

They Erison, a detinguished Harvard.

The Cheson is disregulated interest that plant is a control to the control to the

New York Zinner qualiting one scenitive since called the "the most reportant by use thisse is in besings". Without agrees that selectified may wise an abulier presidence agreest new life. There is allessy some of that "but it has all meson, to Walsoom similer, while you are good to the continuous some of the "the selection," is lack oil "convincing may also be selected to the continuous some of the selection fraction from the continuous some of the selection fraction from the continuous selection fraction of the continuous selection fraction frac

ny wfe hency and I still get golds, but ter (Duesberg) hasn't come up with alttion." Dueshood responds that this upwaters are involved with drugs in one

Gold is tray pursuing his own irrefutable evidence in a Swedish oil well. producers. If he's right, those who huge boost to global perroleum re-

Cruit lawyers sort out the disputes!

Philip E Johnson of the University of symps. Scarctude and beam to learn to

ing funding from reigning theories could help. Take the huge sources of dry maetrose. If I had a company pay

wat He cures May Planck the Gor



In the last decade, the virus has become the most studied infectious agent in history.





Impact of irrespon The consultre rorei el AMS-Harren Immunodeliciency Thus HITC-meeting 100 to 120 name

Bank & comculer-generated (about) crasted on Commuter WILVAL inlected byrightgates (right). The virus ilin neennei in "budding" leter the pleame membrone.



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BTLV-III vices

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Gallo from the National Instiently Line Montaginer from the Institut Pasteur in Paris anas HIV, was associated with the panoply of expec syndromes known as AIDS As we know now, AIDS is an immunodengency weekams, which means the wirrune system is no longnon from infection or disease Hence, people reachly succumb to fungal, bacterial, and wrall refections The minute system is a mobile trillion pell network that









eway Iron the cell















Are we now nearly at the point at which some of the many enigmas are yielding to scruting?



cysis B lymphocytes make the arthories Prosely as bacteria and or hand, can only recog syles of cells to AICS, a

Notes and B Armolina

cold, which are called "helper cells," are the hardest het. Some AIDS patients literally have no the latest helper calls. Without Theiper cells, the minute network is in part of the body. This means Current World Health Organiza the year 2000, as many as 40 rad

leres of Real reserve tran Gallo and Montecher's anerintose which councements not the world ablaze with optimism in the intrai SHE Into BHE drace that not only is HIV asso. ise, medical research has mobthe causes the desires Brace. of dollars have been speed. Dur ing the press conference at enviol the visus by Gally's labora-The officials from the department

The last two or three years however, have wiresped an excells, most of the AIDS veccors. tion strategies have yielded nega-HV one superbly metric certain nes parts of the outside of human here on their and degrees thed... the wrus is suit the first thipped the new racture of ADS has re-

cently unfolded ages. Why are those on low with interted cells respect at any one aid of powerful new molecular

especially in the tonsis and the tation to so many cells? There course of AIDS Today, this gap her of paggie who come down with the symptoms of AIDS but in their bodes Mortagreer the decoverer of

the your, has devoted much come up with a controversal unportant cofactor in the developcollect macricinama. He su most men rather than one to do the celled, prometwo progresms that lack call walls-have been uplatnums. They also are used regularly in many laboratories to grow have been associated with disease. arthritis and some exectoracy of abortions, but not with fasel defrom sample offence appropriate but Sharkogy in Westington DC So far and Mortannac's instrum Manususpect that the two scientists are

> that grow naturally in nearly my ery laboratory cell culture and

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with AIDS Montagrier, however, delends his theory and has recently laurched a new foundation in Press, togother with Prederico Mayor, general director of UNESCO, to help operated eptoring new research steep. Another contundrum surreunding AIDS without amounts of consists.

ACS of this large amounts of consulta-MS of this large amounts of consultaly found in the blood of ALS publishs, by found in the blood of ALS publishs, the blood of ALS publishs of the thickness of the blood of ALS publishs and can easily make us many articles of against the write, sky at the subfactories are doing what they are a artifociates are doing what they are artifociates are doing what they are dispersion, then why does the presion come down with ALSS? In 1998, Goodforty publishers from the

In 1986, Gardney Harillanan rhamithu haveneys of their Courtine process or process for any control of the court process for any control of their things of control of their things of their things of control of their things of their things of control of their things of control of their things of control of their things of

Trench researches and his American comments in the thorry that the veumeph immer suportant, immano make might immer suportant, immano make no calles for and his orderous make important responsability of the comments of the responsability of the comments of the country make another support which will be commented in the comments of the comments of the comments of the comments of which will be commented on the comments of the comments

a melecular halfs found on the eurisis of normal calls. In fact, there is evidence that in loss their four different parts of Hifs were immediately the shape of a central melecular of the immune system called MHC—a territy of melecules trunt or a loss in the body including remain cells. (Hormann's group identified were the substances that misse, MHC). And, since HIV tooks the MHC! Hollmann their too dops amaling high

of the institutional that imitiac MFCO in a. The virus risks And, since HFV boths the MFCO the veccinition in Hollmann thinks the draps smallerly the great wows of reapproposal immunities of and distance as draps of the minimum of the thinks at the immunities of the thinks the proposal of destine years of and the minimum of the thinks and the minimum of the thinks and the proposal of destine years to me a traggered to destine years! Hollies and the provision of the Hollies and the Hollies of Hollies and the Hollies Hollies and the Hollies Hollies and the Hollies Hollies and the Hollies H

cause he claims that INV deal syst neoscardy dong the diamage, if just hispest to have a chape that provided a strong self-chartacter response from the immune system But those data use only midtly surprising compared to some unstagacted results that have emorged in the last outgle of years from BMV secone research. This sides Cohinal MV vaccination is

some uniquested must be that have emopped in the stat coopie of years monoped in the stat coopie of years monoped in the stat coopie of years The dee Lathrice 150 vaccination is to look the minimal years of years may be reported by the state of coopie month raise official with a water state of coopie month of coopie month raise official with a lathrice state of coopie months of coopie months and control reserved obtained coopie of a state of which are stated on the state of the state of the state of an immune support the hope is the at the future, when the immune pythem social and if all goos well, well existent out and if all goos well, well existent out and if all goos well, well existent on a state of the state

Current World Health Organization

estimate that by the year 2000, as many as 40 million people worldwide will be infected with HIV ®

In 1801, E. J. Seet from the National Installate for Relogical Stevenship and Combini Hardschafer. England separation of the during beaternate to visconiate and the during beaternate to visconiate settle authorized process in human colfs. Not the supprising the morningly beaternate of the hard beat beat supprising, the morningly beaternate of the confidence of the virus. But affect the confidence in the virus But affect and morningly will be the virus But affect and morningly will be the virus But affect and will be virus. But affect and will be virus But affect and will be virus. But affect and will be virus But affect and will be virus But affect and will be virus. But affect were produced. Apparent

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wrote. "Our results, if confirmed may result another unique properly of transnodelicency wuses which includes asplanetism." The unique properly Soot alludes to is thely you corn herossorily need the versils induce at make response against 6—human calls without the virus will do the trek. Stots findings with morehy searn

es make response appared "C-muran colle without the varie well dut the arck.
It is evenly smiler to the Heldman-Ron die ober over with more which theseed that
expecting cells sidere accusily provided and mammar response appared Hilf even
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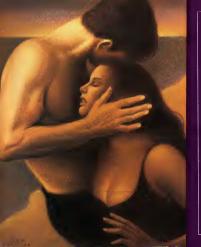
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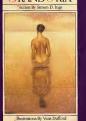
the outsides of all of their gells. One per-

specie Mid proteins are a flerenthy dif-

sovere disease known as gret versushost disease (GVHD) Since 1363, researchers have no-



GRAND PRIX Section By Simon D. Ings



"1000 hp on this circuit? Madness."
—Niht Lauda

The see is off-white, banded by blue wasseshadow & loss of clotted cloud les between it and the cobalt sky of La. Pocholie Anobie talks but I'm not issutening. I'm building sand castles I be down in front of the model and

pick away the souther and the Boulencate the tunnel frequent to the harbor my lingers along the edge of the cliff

Angèle peels off her shirt and heads for the water I want to year her. The all

my shirt is dripping sweet. I want to days this seek so cold if obvious the out rotten before Anable reaches the diving hers. When she lake her eshouette ows, a black slash pieroing a hyphen-

sted surface I think of trajectories. Ge wheel racks and robots. Roos the burn ing and visors filled with drunker kangi The lack behind my arus is behind

codes to the market A man is house the forecourt with seminator. The gustors We get a room above a call with a www of the market roof. We fetch our luggage from the station. Angels puts the ESCN lead and grawls about the foor curring. We must the first five minutos of "Danoqueos Nouvelles"

They came from Dion a year ago miss—the Apenda for Europeanoning meet, outraced by the atmospes of boons and the Ameiorne Adenne are stenced new but Consevers Novtheir ritize sober somictic researches

painting of Searst's Bargneurs And vet. A glattour surround Canesuses Nouvelles its dances play All Stance decreasured stance and act their werped yet familier roles with an inhuman grace. Their performances

in its pure state-a givingse of an and After the show Angèle and I make leve it is love with a fluid rhythm Angèle gasps and clutches at me, the

even. There, in the wet blankness of the pupi, I can see them I gaze disser, closer-Anglie's tonque fligis at my chen at it like a beby put to the breast

69he held the grange parcess of her victim helwoon finger and

twirled it by its claw-I tropted hor to a bitter smile 9

The #shot I remainbor most about Cathor. suni, sedistic dostures. When her red in them, she gut me in mind of a coll This was set months ago, in Quimper I don't know how she not my number She told me gute openly who it was

They say reging drivers talk more other sport. She held the cranne carged thumb and baseled it by the class smale. The pindboy recutation, and its sprease fin sele is one we on leaver deserve. There is no Rome use Tens on the creat now no Court Godin de Required no loss indeed not some Deemeaculation of the them's chammer competitive and commercial Trained kindled our infermy" | replayed "New cars New requisitions. They want to reaged Our appreads twist incidents into publicity commicks. It sails returns:

I shrupped "If it old not, would I be corpse soft-landed in a priow of softron

She brighed aside her biste. Applying and typed. She read "Cool, rational, seldom angened, seldom autor when deappointed-" She gave me a cool giance, "Bassual last crused in Gron-

male, in London, long-standing correto see "Hardly the styll of blackmed.

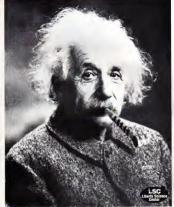
Cathanne sutted "Of nourse not What would be the point? Publish and be Dermied'-that would be your atta-

"E has been for a long time. But Have ers has a way of buying off the papers her a 'new man at pole postion Maureen Haven in poor poster. The end runs a company it has an interest in creating subsidiary legends—acord-

So she puts you in the close!" Juan Twosfdrift pet any privacy at all She d make sure of it. Cathanna stoked her chan "Is she "She is ead," I replied "She lost her well for him The interlance current

witten't properly prepared for the extra Gathanne waved her hand distressive ly "ifm not interested in technicalities" Lippiced at her a long time free sout-

"Me were will burriers when I ruffed have face 1 She pursed her line. She even "Formula Libra is suit what it save I were on imposing her applicay, "a from mula One was putched and good rev designors were turning to Titre rather rely better place. She more it and river



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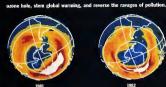
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n the future, geoengineers tinkering with the sky may patch up the

















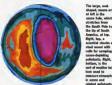
Air Repair

In the South Pacific, rusted old freighters send clouds of smoot into the sky and drip iron-rich liquids into the ocean. Overhead, aging airliners with inefficient engines spow out sook and hydrocarbons. And around the world, coal-fired power plants send toxic sulfur furnes into the air. It seems an environmentalist's nightmare. Yet this is planned pollution, on the global scale. Welcome to the brave new world of geoengineering, built on the premise that what technology has given us-global warming and ozone holes-if may also take away. To date, we have

Article By Owen Davies

changed the climate only through knorance. But soon we may have to change it deliberately. Would-be generalized warm that if we continue to produce carbon dioxide and other preenhouse sizes currently heating up the planet, environmental tampering may be our only hope of everting drought in critical farm regions and other catastrophic changes due to shifts in the The colors appeared open corporations from white (harbord) thought fird welfag great blue, and paraly (lagrest).

emerging technologies restore what pollution has taken away?



The large, eval shaped, maure an at last in the groupe hole, which stretches from the South Pole to the tip of South America, at top. Right, top, a scientist checks a steel wasel with cells for samelin onne desisting pollutants, Rich

measure atmos





clamate. And they arid charmonis to natch unifine excess hale caused by industrial and consumer release of pers that would result

If the idea of changing the biosphere sounds risky, respectable screens or continues are taking it somewive Pro-Coopeck, who recently directed a National Academy of Sciences (NAS) study at appengingering for the U.S. Congress, silvs. "We were skeptical at first, but many ideas sported both females and cost offection."

In fact, named of the NAS aroust sweets even to choose from Some of the SQ an culast retireston, atrota cass were as simple as painting mofe white to gut down on heat absorption or improving the efficiency of lights and under benfore to out demand for electronic from coal fired generators "Just getting every household in the Linday! States to cordons those incomfeecest hulbs will high efficiency fluorescents would nut residential energy demand in helf." Connect: now with the Whylel Baseum. or Institute police

But according to former NASA Administrator Robert Errorh jahn worth most of the personanceous snoot force increment notices won't be adequate. "If you die all the relatively obego potage. They would sudure the of and perhaps as little as twenty percent," notes Fresch now vice president for environmental compliance at Genand Motors. "You really pand compliance more." That's where expensionering comes at All its correlast avoing meeting offers to reforest more than 28 million hectarge, about 17,500 square roles, of menarca U.S. form to and consumer one off. More spectarifier reconsist include infline yest memes into anone to reflect engage suring, declarate aged gues makets, or helbors to comwould aban't carbon double, and dumpne hydrocarbons with the Ambertic stratosphere to react with CFOs before they can destroy the ozone laws

ton would be as far out of this world as the reflectors them But at space-shuttle prices, the tab for putting them up would come to at least \$120 billion, not counting the reflectors themselves. Even by Washinston standards conce reflectors soon exporture

The observe alternative is what Emanh calls a "space parasol," an orbiting dust cloud to screen out incoming sunlight. Ideally, the dust particles should be small so

arnest resentale area lessana lauret costs to a concrown. But the soler want quackly sweeps first particles back you soars out of sight

According to the lagget some towers al options for geoengineering may be driv somer to global warrang and the styrosphere and make a supshade. without payeng for spage fraunches. If is natube old just that in 1991. Since

In fact, and policion speaked pin the

that a few tons of them can cover the mate Change, Burning lossif faels there entire number on the set N dust Almospheric cherrist Bribert square meter, counteracting about 40 Rue dust at very high abbudes in the

sitatosatheen, according to NAS calcu at countinging the greathouse effect culations. At that rate, 20 million idlo nowns would eliminate any warring 1 and 3 billion tons of dust each year

ways to distribute the dust Launch it with enclude like the surnive NAm On uned to carry scientific payloads of dust, so navel arbitery at only \$10 to chaice. At that price, if would cost less neering strategies this is the barger

A fourth Frosch urles us to use planes and boats to give off pollutants geoingneers could defune the engines then 30 CEV less so that I percent of their last gets spewed out as acct. At ther about French earliers, parkers on average, compared with two to three years for stratosphoon dust So often. But the price is lower-it would cost aut a pensy a year to offset the

darrage of a ton of CO. amount to be added seems leady to Smiller results would come from burnatmosphore Whiter would condense on cost from \$80 to \$100 per Higgram of to offset the warrierg caused by a dos hims of atmosphere CO. Again the cost seems reasonable as geograpneering plans go. It would take an estmated 6 million tons per year of suffur ng that a angle step can burn 100 steps cost \$100 mileon each, plus \$10,000 per day to operate, it would cost a dollar per ton of CO, to eliminate the greenhouse effect That's an athree-

chespeet energy-saving strategies Predictably, all these achiemas reering in the first place. Some peopie have mismorpresed our findings." it in just the aght twister. I'm proposition

to get that level of control Firen if you could be adds. If still dimetic changes—droughts or fooding night and day but sulfates or dust



hour ways of lighting global warriing trass in resture, trees are an importan serie for CCL. Wheel is about half can greenhouse gases. Some ecologists set-Gotto Duton Forest Beserve in Costa Pa

trees, and the Johnny Appleased opalready creating towards in order to off

is planting tress in Guaternals on the thetheir Concentrati nower plant emascertion from deep in the ground where fit been looked array for tans of millions more carbon closedo franciso do cierto ab-

King's College of the Linsensty of Lontion, increased energy afficiency, and sible could cut CO, emissions in half in

Liefortunately, it takes a lot of buymake a difference; that's why some place. Hall harself estimates that offsetcert of the world's cropiand, or more

Then ensure not all crops remain greer Dwan F. Spencer is designing ergy under the sea. Eventually they

the huge purplishes of mecos alone John Martin of California's Moss Land ms Manne Laboratory Martin a plan like nitrogen and phosphorous, yet me controllic plants-phytoplankion-

factor of burns out is ince: Whangang Mar-



Evolute the WHAT NEXT



nextstep

INTERVIEW

arvard University Four his books throws out his chest, and intones, "And this scientific name. Gonila gonila gorilla." As a warm laugh armads across the crowd a toaching assistant lukkan in the sheclows throics to

hanself, "My God, DeVore gets a laugh out of merely stated the species' name? natural habitat, explaning the facts and implications of

appropriates consult of Harvard undergractuses. Of always ninese the correct There are trees whenintropychic darmonest or

whatever-DeVera fumbles and falls, and Harvard's finish undergraduates turn from adoration to score, Mling the of hisping. In this situation or the way out of the hall gryf daciero in his cohreso of teaching assistants, "Another before red morse. Now 6's their turn to issuch. By God.

by implication, rothers on a lettle like aspertiment Than

this criterion. In DeVice puts on a cood show indeed. A he has 20 years of fetexperence studying human He multiply leagns up with the latest work in paleontoing

The primal dramatist: He sees the script of human evolution vividiv played out by the great ages.



PHOTOGRAPHS BY PETER LIEPKE





Harvard's Panhady Masoum: D featuring his photos of Kalahari ha

HEV ON

accurately seen from VALUES foregrig patterns. Al-

must from the becar-

Born and raised in rural Unversity of Texas Pursuing Indian prohagology at the University of Chicago, in the lain Fiftyes, he fell unvior the sway of Sherwood Weshburn. a noted anthropologist with

baboons instead of humans In his doctoral study on the a central heterohy among Several support each other in investigate with makes outbetween two makes is often first clearly demonstrated case of reopeous altruers to select for support a male part of the new wave in

Washburn Washburn was

This had a shattening effect belogge and human behavior within the comfortable "grown Selector' paradigm of the day (industrials not by the benefit of the group or new peradion was individual action for individual many probability proper action by

individual genetic adventage

socializations was about as pleasant as "Saul's on the firmly on his own but his us a political liberal at oss between humans and other creatures-between business As befits a person of he Swerm of outstanding stumajor unwestation throughout beyond Perhaps those who give him orgatest pride are the warren some of whom Uneversity of Celforres a

are defreed a familiary fund rooted in evokbonery belogy who nate Anthro Photo. Dellare in the father of two children and grandfather to three more. Now sever haired hmself and busy with a

Davis and Barbara Struts at

- Robert L. Trivers cant "funking in the shadows." the University of California of the subject of an Ornoi

Ome: Have the thousands of our understanding of human Delilow In almost suppression I know These specimens

co and crear the last 5 million upon now aroun about the time defente of his

DeVone: There never was a "creature"

knon like street in mintee to chimpe as say second courses who are de the remark of the earliest australization a consture 3 to 4 million years old that comes amagnoly close to comprise ha

These early australoppherunes had clearly adapted to bipacks' walleng year neither the pelvis nor the feet are fully moriem. The earns are long and, onecurved. This suggests they were stall specific a lot of time in the trees or to upright walkers. Both could be true brains and the males had much loover cannes than females, and you have a most product what a creature that is

Orwit Can you describe how our ape Deblery. Not really, but one colleague now bondon and males has very resust Early australog/theories showed too

afarensis males over females rance which such a bin difference in main! terrale raw has led to per-bording or significant male invisionent in offspring Looking only at relative body weights serves we lind the following globons 1.4.1. conflies 2.1. and grangutars 231 Only the alobors, who are offere unlikely that sustralop/trecines could have been nex-hondron Otto: Gon we assume that the unnot tool-way homind adaptation was to successful that it sweet all other cros-

when fossil finds were scarce and dail sible to squeeze all forms into a single less from a nomitive annualty right that the later homested consented One of the most peoplesing problems

is the Nearsteethals, Little recently, we tion isolated by the continental sosheets in Whstern Furnor Now Offer Bar-Yosef (Harvard) and collegeus have clear evidence from caves in israel that Negotierthals, and Homo sand

> 6My first reaction to the new theories of sociobiology was

to dismiss them. But after six months, my previous view of the world crashed. Almost overnight I was converted 9

times in adjacent cover-for about Cro-Magnon Homo sapiens, bost leaves from Western Europe, emerged cety 35,000 years area About 20,000 the too kit harpoons, feedles. tools for 100,000 years and goes keput est stace, on the threshold of dominason by //ome against two respective-

Greek Arm humann pain-bonding? DeVore: In the West, we assume the "natural condition" is improgramy, with significant investment in offsperso by busbendfather But a worlderde sumple of curs that the vast metroty either econuknow of no society outside nationhold download fast are not not not not numerous wives, and lowest-status have none Clearly culture makes a house of Hausener

In a few societies, polyandry—sev eral men usually brothers, mamed to er matriknegt societies trace kin relasound introduction and divorce easy figure is not the father, but the mother's entrusted to a male-ternale bond hased on several interests between him handfathers may come and on, but by

is not jeopardized by the sixting secual interests of the parents Owner himsen't says and described a world of male chauverst fantasy where males of strength and status tites and reproductive drives

Deliber That is the automost of mospeople in our society, and it's human remforced by church, state, and cultur that decreed they could not become the second, third, or such wife of a terrative was a monogamous unser

Ower Why might a women join a polyty parasites This makes series if the Where parasite load (variations in mortakty ared lacunristy than to paragraph of resistant genes in chace of mates a the expense of parental exceptions

Own What omen more humans use to select for such genes? Onlyne: That's the question! In other weed absumper of committees, but economy deed be better developed among trop. cal peoples —we know of no treit oby find that passable kind constates with arri male choice. Where average parasite load is higher, people pay more after-

by in choosing a more in contrast to fi-

male maling aupoess Parasses are likely to be a major fects, and where these interiors with dewill succeed in aggressive encounters some abstract way, but in a concrete

OTM: You were a social arrivepolo-DeVore: That's a placed guestion of I well, if was you who sat at my lutchen prought about by William D. Hamilton, first reaction was to utterly discress them. But offer about me morths, my pre-

most overnight I was converted DeMue You This theory is so funda mental that you can't accept just little

ment of England and America as be-The critics of accubinloav ruc cumbed to a form of fallectors reserve

good "-hengs a scentific suttlication in the fostill record have other gone excedors. Natural selection is a temble telectual out as to remain with divinor-

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colocatis, and paycholog at appropried the behavioral norm-as truth I now most enduring cultural and relicious vid-

"neture" and embrace almustic values Owner I know this led to contradictions DeVare: It certainly did But after ness-



IYES! wast to pollege my back pulse

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Evening Phase (Back Technologies

C 1997 Burk Technology, Nr.

were that them local accession through an accession to the says of the says of

could oddicate Dar Kapstir to Irin.
White belong his assowed Sarward gard.
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Dark of the Sarward Sar

leader in all other findepoin processes foreign-filterness to the fire-reduced of trought-filterness to the filterness of took over officially. Such an apparent is light filterness of the filterness of that twee becomes economised and the classification of the filterness of land to were assistance; preferred in color anything does no markets that activities ones that der not covered and so were assistance; and activities ones that der not covered with three deplaced mode that were more fit. Advocates of this position or systemmously produced meliusage.

Own; Are you still being attacked by

DeVore: Oh yes, but not much any more Al frat, our investigations were

largely devoted to analyzing strategies

of male reproduction—male behavior

tonds to be far more flamboyant and the husband. The new work may force make reproductive success fonds to even you belogists to enlarge your university more than finansia. Visining visining distribution of extraording of execute electrical graduate students show in their gata the social not be the weeks size, why the social not be the weeks size, why the social not be the weeks size, why the policy and occursively only of more make completing usually only of more than completing usually only of more make completing usually only of more make completing usually only of more than complete we worked or force that the complete we worked or force that the complete we work may be used to be supported as the complete were some story.

The could not be the various story, they be because it is subject to the could be received and mer or Together we worked through the subject to the could be received through the subject to the could be received through the subject to the fact that fines beging to you would be received to the countries when the countries when the countries we have the countries when the countries we have a considered with a name of the countries when the countries we have a considered to the countries when the countries when the countries we have a countries when the countries when the countries we have a countries when the countri

&As I look about me, I see the vast majority of humans following the ancient

selfish, and ultimately destructive dictates of natural selection.

patient of male operation of female serually weath in many pth males. Male expression toward females commonly rises so the females become more serial ally attactive, is secured operation finally one's prevent female sexual congress afficient males, some of whom may be preferred by the female. Forced copulations, inflammod, aggression loaded and mander of females occur through out serial females.

controller on the statement may suppose core or farmine in and or hands who can provide support Gorda tendes to sample, but an one-sale unit a should adult farmile relatives to help them. The make is throw there size They are very validatable. If therein on support assist, take, the farmed way round to such protraction from a striple male in exchange pages. The logic Samus supposes, and work in our species. In many sourches manage protects are server from now manage protects are server. companing solution for the first control and control of the contro

as the age of control of control

sources of moneye and appear to throw of the stretched or subpose. We have a fundamentally arraine than 16 the provides and perceive our world the way they do Today, we realize social groups of provises are not berediene or individual strategies coefficient forms thresholding, and social moments. Social memories?

Davides in righty spossibilities of the best before and changement, including the best between the changement of the property of the best davide for a fallow group member will be returned on the farmout first the mand-less or and fermionens, we see ing of the resilientishe to an explication of rightness indepartor. Resister we are so like them, we groutably can express the change of the resilientishe to display the proposition of this play with corrected the courtey of the properties of the pr



AUTIMATTER

Are the monuments of Stonehenge and the patterns in Britain's cereal crops part of the same orgy of circular construction?

Beginning some 5,000 years ago, England Store and Bronce Age introduction Store and Bronce Age introduction Store and Bronce Age introduction Store (and a store and a 150,000 to 4,000 or and the region of a 150,000 to 4,000 or and the region of a viril, Storeheaving is but the beat some Mally of the most region of which Storeheaving is but the beat some of the storeheaving and a store typically used as but all lates. But why the frestion on creater forme? And even more puzzleng, from a storeheaving and a storeheaving and storehea

Issue been much sender to create?

The liability department, proposal by meteorologist Terrico Manden, issuena controversal, to say the least 1 saggest alone were fault financiary. I stage alone which to come calcies were seen to born, stage Mexicos, safet of 7 the Coldina of the Stones and a loading coreologist, the resime for itselects of the impatrious carcial patterns appearing in their least the manufacture of the control of the con

All of the more consists formations, known as publications, and control to the more consists formations, and an appearing an explosition of human host ing. claims Meadon. Others, he theorizes, are coused by tey, electrically changed withwheath. As cooling to Meadon, such vertices can glow withly a might and could conceivably be responsed for the might and could conceivably be responsed for the might and could conceivably the response die for might and could conceivable the control of the could be controlled to the controlled to the could be controlled to the could be controlled to the could be controlled to the controlled to

eightings and set to authoritishing informations has bloodelerger in motional times a well. For one thing, Mouden argues, the precisional set part of the Street, and the set of the set light of the Street, and the set of the set oppresses. A cricle for ming in a fertile cereal real set of the set of the set of the set of the set would thus have been viewed as a sign from above by both preceduring presents all the Press, says Manda or, would have seen the core counts as a control of the set of the set of the set of the or, would have seen the core counts as a little of the set of the set of the set of the or, would have seen the core counts as a finance or, would have seen the core counts as a finance or.



space," with the spiral center representing the vagans of Mother Earth and the flattened surrounding area representing her words. Burist or any other risal conducted in the center of such a dictie would have been symbolic of seasonal shifting and a form of sergous rebirth.

and a form of regious refers.

And what of this algity off content stone and conth rings? As it turns out, Maudan cays, most of shell continued to the content of the shell conte

semilar structures has mel with skiepticism from some authenologists and cerowingsids. "It's nothing but a wide quest," says John Metheti, Innest's student of biretis areasuless and collect of the transual journal, The Correlations." Authory Burl, England's foromost authority on stone circles, concodes the idea is "superficially in-

stone circles, concades the data is "superficially" in terecting," but he doubt it will not held water. For starting, "he notice, "cultivated copps were on hard for a thousand yours before the cartiest looms stone rings. Where were copp caches and their entitalises during all but here." Mesoner, the might of their editions and the here. The control of the edition of their entitles of their entition of the edition of their entitles of their entition of their entitions of their entitions of condense to the degree of etern and discherated the condense of their entitles. The condense is the control of their entition of any attempt to exercit the control of their entitions." See Ball.

Measure, whose new book. The Storehorge 60habor, concentrates chally on the construction of Storehenge, clean crushe the situation but maintain that he tonly hard to explain in "in fact, says Meeden," an absence of stone circles in the first inflormum only meets that no one thought of mixing impaied above them. Instead, it was a preced of the explicit embed circles, which unfortunately defined to the strate of the control of the



AUTIMATTER

UFO ARCHIVES

The formal shedy of LEGs is similarly all century old. One that years, many old. One that years, many old. One that years, many one depth of their people of t

microfilm copy of the Air Force Project Blue Book files and a computariosid database called UFOCAT which contains thousands of UFO sightings on dels. Rodegher points out that original UFO papers can be found in other

Philosophical Society Library in Philosophia, contains the bles of the late physical Edward Condon, whose studies convinced the world that have contained to the world that the physical transport of the world that the physical transport is the physical transport of the world that the physical transport is the physical transport to the physical transport transport to the physical transport transport to the physical transport tra

COUTOS has managed to acquire assertion assert

ARCHIVIS MAY PROVIDE BEAM WITH A HOME such as J. Allen Hynein, the bather of UFCliggr, and busice Duvis of the Natironal Investigations. Committee for Angul Phenomena (NICAP), Beyord frue, Roselpher sources, the dos-

ALL CYER THE COUNTRY, NOW A NEW UFO

own archives, meanwhile, he has a wish light of documents he hopes to acquire. "Includad in the brasium town of date shif out there." he asserts," are documents from the early UFO group Aerial Phenomers. He search Organication, and the great feasiacher James McDonald, who missing properties of the present properties of the messagand agritings to a messagand agritings to

-Paul McCards

NEAR DEATH

II. In the derivation, I felt stocking wards are time to stocking wards are time to stock the stock of the stock, Month's stock of the stock, Month's stock of the stock, Month's stock of the stock of

tet, and memory specialist heading laboratories at both the National Institutes of Health and the Marrie Bedogical Laboratory in Whode Hote, Massachusetts, Alece is in a unique position to analyza these close encounters with death.

these done encountees with death.
While vacation in a Flands most than a dezno years ago, it also suffered a gettire benontage. As te tarter in unicorroccusiness, he was overpowered by a some of relief and release tros

behind the episode? As blood spurited into his stomach, Alkon surmisses, he quickly entered shock. Endorphins and other pain killing chamicals, he some of regions. He can a had been expensed in the case of the cas

series of indiginal in his as a "kind of light against a table background," perhaps owing to anouselack of daygen to the basin Oxigen depression, Albert Ingglead the firing of visital reservoir, creding an image not unable that produced by pressing against the eyes By collapsing to the floor and abandoning all alruggly.

Altern their recreated the tow of brood and conject to he brain and boosted like chances for servinal. The mouroscamial evel suggests are application by the food of memorics that raced through he mad. "It is all you are reviewing all of what you are about to lose."

Altern says he has dead of the control of the control

drawn one particularly valuable lesson from his journey to the precipice of death. "It's helpful to know that there are three to abandon all effort," Alkon says, "times to ket go. And you don't leave to be dying."—Steve Nadis.

ABDUCTION SURVEY In the so-called abduction whisked off to stien starships for intrusive medical exams. But individuals fitting the descrip-tion of abductees are rare a recent Roper Pall at 6,000 Americans. Accordthe suluit population, or some 3.7 million people

mov be abductions, more if they don't guite know it The questionness was marketing survey aug questions thought to be indicative of the abduction

SECRET UPE ARE AMULICIAIS ON ADDRESS AMFRICANI MIDDENI ARDI ICTERS

experience. The telitale expectages, supplied by abdustion recover er they had ever awak ened paralyzed, flown oh the air expert enced a time loss of an hour or more, seen unusual balls of light in a room, or found ouzzfing thud ORLL of one Bob Bioelow, the Las

Vegas real estate develop or who anted up \$100.00 for the survey, some 2 ered yes to four out of the five questions, such like those who actually But the numbers don't impress University of Oregon psychologist Ray Hyman, who says the shudy was poorly conbut. There are all ports commonplace reasons for the pos tive answers Hyman says Fred McCorte

HOYLINE TO HEAV

During the 1992 presider tial campaign, a group of angelologists' worked ou ety behind the scenes "We weren't trying to influence the o Name artist Karyn

wanted to make sure that the new president had a capport with Uniel, the changel of our nation." ed to that lofty post in 1918 Mortin-Kuri says she and her associates a ргаотталю ораж pestry a Falmor th

usetis, firm devot ed to the study of angels—have also worked band to promote level in the former Soviet Union To spread the word Topestry hosted the first ols in May of 1992 For the 82 attendees, the primary goal was strongth the heavenly kind, ening connections with you can call Tapessy s usedian angels through time at 1-800-28

tive offerings" to the higher world. An even bigger, Second American Contempor on Anaxie, will June, "It will focus on the specific tasks angels wan us to do." Martin-Kurl save. A proper may not

ripor to his customers. A spiritual concepts with According to Martin Kuri, Tapestry's focus

is not on "trendy upstarts like aliens," which have projectly invaded the lapestry deals with the cood, old-fashioned racis described in the Old Testament and other

ANGEL For interested cellers, Martin-Kun will even consult, at a cost of \$100 per hour, own the phone One chart, who d a history of contains her people. for metanes was encouraged by his edian angel to give up not way of the The man homeless, Martin-Kuri

claims. Another client-e woman living what Martir Kuri calls "a clossered ome-was urged to become more sposble. A tow years later, says Martin Kud, she was awen a large Victorian home and used it to entertee and help people interact on "a higher sorqual

For more information of plane "-Steve Notice

INITER\/IEINI

er methods of expressing behavior Omni: Can behaviors in the living great ages be used to help understand Dalleyer Harperty sellies decreased ins-

levery in chargement to responsible scorded was led how owns and in our hors-Total Cardell's study stes at Gambe chimps use tools and that males will whether males were actually hunding fortutously coptured a small animal. In organized. Female champs in the Tis Eur-

ott are groen tool majarn, umma e vanoty of hardwoods to crack officered kinds of nuts. They systemistically carrie rure stones tefeburg them Green There's in division of labor be banco makin and formaken's DeVore: You, and this until recently has vorte anacdotae from this study one from to an old female who was sitting at the foot of a free with cracking stones. The males damped the rule in-

be fives in such a remote region in his colleagues at Emory report that male borobos in captivity requisity ex-

Formole Ingrathos also sperr to manot. The citars in the female hopeing Emory, I waitched a male repeatedly sosident which he safetand trains to turn course, finally, she accepted interalterward insisted on a second cooper lation in the face-to-take position. This the Min Quest for Fire which in any asse should have been called Quest for

Ones: These chargestone behaviors suggest a social organization and ad lendo s meang language Dalane I opyrigate has led to a human

see no reason to suppose anvituno

6The honohosi copulations struck me as a version of Quest for Fire

which in any case should've been called Quest for the Missionary Position.

File modern language preceded by any ance of Home sepsens Although many colleagues would disagree with mo. I Noonderthals had what we'd call a "mod Ottot: Are you supposting a protoker guege, or prelanguage period?

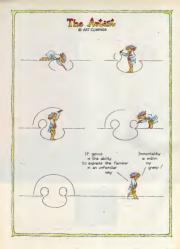
One can impose from studies of lan with stronger down and serviced troops to ability....a few nount, a few inners. have hareful the rand evolution of obsecto a modern language Owner What about the report once that trivial by the varies labs that have taught American sign language to

processing and the subtle use of the vocal appendix use sittely not large in chimps have progressed as far as now vigwed with considerable skepticaim. We are suit beginning to apprechimpanzee mind and behavior and to communicate in a modern language Centry Why have your bacteria symbard Delybre There's a strong temptation to

on a species that's been separated from land vertebrates by 50 million group of dolphins at Monkey Mia. Shark Bay, Western Australia, sought hu-Nine or len come in daily to interact with humans in anxio-deep water fored because one normally only has a few wooks a year to observe their be-

their lives at Monkey Mis. We observe troop of baboors. We've identified more than 200 individuals. Dolphins apmakeby the chimpargess. Continue of males patrol arons within which to ing zones. There's a dorrenance herarony within each male subgroup. Two when they divide again the memberthem from a boat, I felt I was seeing a manine version of West Side Story Own Yorks invested beauty in your select yourself. Any moneta?

at least a bundered casestory about the trature of behavior 1 d like to investigate I made a strategy decrease to made course my honorous does were watch. no beboons go into their year at dusk and siting around the complete with hundress or File Downess Afforest I had numerous recrets in my thritisa and forties. looking back as I approach my marker. I hard I mustle the cartif charason. My best efforts were spent to others to carry out heldwork in areas one on his should be entered to could preser achieve to one lifetone DO



GRAND

"And she is hated, is she not?" their time back-stabbing each other, but

A smile played about her tips Tissue's a lot of hart bland hansens and Maurean Havers When she was mette Foursie's 1972 outlit which does treded the French women's liberation movement into the eighbes-all red

garte time Maureen was wong Psyche ones Psyche or Poread Lacan the Pro-Powers rrypto-Captains, the Program-The Programme won, but it was a

an eite with no popular support | don't suppose she will like what we have in mind but- "She shrugged What do you know of the language of

I towed with my food "Top ratings eight weeks narring . Small? She was start for some white star-I had to smile "I don't. I assume but "My manager does. Dansauses pushed my profile out of prime time last week PTV wouldn't neochain "

crichoreographer is Heiene Riferour In posite vehicle. Suppleons in São Paulo

rebuilt her. Nanotech CNS upprades Loodded Téad some " Helean is a

good dancer Still I thought about it '41 In '42 Holong and Dansouses went on TV Quick work. "Programme money?" I asked I know rushing the We look after our own "Cathating

conjust | Southern Hausey Donard star?" We need a train to Man. It's out of re-

cession now. It even boasts a sand heart (imported) and a law working out-

could be said of it before We not at La Satur. Appells is pleased

her the lown, God knows I have sufficook plants in my unlet but hers is extra We haven't been together long Cathanne nave her to me-- a portact back I find it hard to predict her monds. Maybe if was Calharine's idea fired of playing the whore. If a not a

Like an ideal I mention the Programtime for that," she snaps "It's sail ples

they sachood Wile outings? recognition" I say, all the style wondering at my own arregance. Angele ed once too often to stay lying down.

Her look is enough to shift me up. "Con't talk to me about language." She's the first women I've met grow's when she's angry. What do I gave that What comfort is that to the mother with wolfin or the duke or the pensioner? Go late life it must floren's a bear sould see I pick if up and weigh it disperly in my hand, it's a ROM wafer—a pocket

port between thy shoulders—the same





But you can

equalit

Tengueray Sterling Vod

then's her for tao by longwing me whole thing failed in tension at the rear want one way the mar wheels the oth

derbely common sheared-

and the old anger is back "Papers That wasn't fair I'm not a choul I ser What it did to you." She nite her you. What am I to you? A freeze or o where? Maybe this place is relief in rubbing off on me because I really don't know. Sorry is the best arrower I gan

know I want to tell her about São

The Grand Pite of any clean deaths:

Maureen Havers honestly believed she

out some feeling behind it. She could have left me in a shapirhur it worth? was the one who crashed instead, she

was just the meet it plugged into still couldn't guite get my heed round knames you're later there with a hos

a difference, if pagers to you—all that expensive fect, suct to get you tole!

At least when the Programme peed grams tell us. She uses an expert aye reography direct to a ROM cartridge Ma? I can fresh ROMs sert one every ter Only they went one steam further wire myself to the car I don't drive it I

as a corporate concern. It has no solid rules states one car, one dover Havto a detailus, a way of loading the ap-

sourc? Larranger? Withware? Why not a



style with towers at the comment and site on the nod cyreat becree an angele, passed out by foodigithing which exited not he becoming the Angelle and I wolk among the costs. He is solared which were also also have been guidescover, working for terrorists unorder how much thoy in solary burder how such thoy in solary burder how such thoy in solary burder how such make have to respect or living for the passed to the solar passed on the solar passed to find the solar passed to find some major control or the solar passed to find some major control or the solar passed to find some major control or the solar passed to find some major control or the solar passed to find some major control or the solar passed to find th

that own phallic servicing; No sport on Earth so quackly forgets its widows. Grand Prot invast size Death as their bride. Wheper their names in swe. Depaille, Wilenaum. Willy Manesse. I do not thank the Programme will set me. Perhaps I lack the crushy to credit such decorption. Perhaps, if I seer a such decorption. Perhaps, if I seer a

[1 look at Angale, the stoop of her shouldon, her tend doos, the way she best the she fingures through her hard—per fagos I would have to be, to survive. We return to the Hotel de Pairs. We taken a sufer overtocking the Cleano Tomorrow Angale will see to us baccory, she will see the case as they ordered.

The signature of a solid or clear for the water. Characterise Movember Them are only first discretize to be company, excluding Feliagra (count what it is as the first of Characterise County from the company first only of period or characteristic characteristic country provided for the country for the company first or company for the country for th

more. They can handle temperare.
But seduction?
The credits speci and l'undress. I sit cross-legged on the bad. Angèle pushess the water into my back.

es the wafer into my back.
It closs not take long for the headache to clear. Two green circles appear, one above the other, center-vision. In an eyeblink they are gone. They are the not and last livel see of the Programme's system. It will perform

It's all right now," I say

Angde turns on the light. She boke

at me and she is afraid

I hake me, something flease

d
Formula Zerois a race for cars, not disare. It is a vicious testing bed for crackpoi idolas, the way Formula Dre used
to be fall the innotens exceptions and the
paypoin rule of Joan Mane Baleadas
Formula Oneil's sub book coased to
reflect nothroad progress around that

ion rule of Jean Mane Balestes
Formula Desir sub book cassed to
reflect softmad progress around that
time Formula Zero was conceived in
the instable size way sound the rule
took and into the teenty-first century
Anyway creates are good for business
by eyest are full dilignoseme. Under-

My dyss are full dispressive. Under leds court of the seconds I turne my ame and speak the resocurate rife the rud, gat out of my time of too, all pop the clotch plate with my mouth and other. The shorter glows green it belt film user are part down if it make of Newtra proposition incorporate in the head been eight external views out.

the inner surface of the vacer tree seaa. It is story certain-downed.

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sale. The tracks a armost black their opuration my afreatic swering round the nit i Italiane's with optionated open dienyly in the Finnise is a blass prosemitdanger one on my the following in our mar up on the field conner; if it we have been assessed in the second of the logice statist of the happy to all of the logice statist of the happy to all her, their Catherness mem-borno time, her Catherness mem-borno time, in me, wating their bendering it will need to be a second of the conylingers of this time of the programmers as and a hope that the Programmers as

Principal develop set my pean with lor vergoard on Mauriser Haise.

My less are the sort het go soft and adhesive in the heat of sort het go soft and adhesive in the heat of societation. I have five laps advantage over the opposition, he laps golden for the road, be fer they fold the sort heat and I slip visit something more hard-wearing.

There's the soci—a grey graph conditing. My very spool when prediction ourse and hazard warnings I table (Sont and I sold and I sol



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and the car is feeling cuesary. At the oil robots tendime, probing and swopping this surrogate body of mine My wheels feel boht and warm, hugged tres I acream wasy from the pit. The the World Record—a special ethertric tells me how I'm doing. The real dan-

good With me around, no one else conrule seamet my kind of daying for the theorems drivers. And it another twee-Book and the whole process will start My shoulder blades rich There's gomething strange in the nervous sys-

Semething deputies banners I'm basing treated the tunnel flock cohands) when there's the most appailand my ribe by stremmo themselves Twough the crash-webbing. I round he bend along the herbor road and my needs sen't up to the Gustise

the cliench piete grows hot to make me ameaned DLF decal Achebris unmetskeeble Go signal I

piate. Its taste of sour selve is nouse. be sick again on the circuit. My herner hank on it only taken a manual to he come a car again. But the time it's different. This time. I'm way down the

potnices? Some of Analys's special anger

It feels opport and clangerous, like the Brand Ptx I remember The difference ing the car to its limits. Now I can fee!

the last five laps My arrogance is rewarded

by mine the earns-fries and proider and a hot metal taste in the back of my my knees are crumbing, my toes are oblighm. I'm screaming cybernetic agprovince my beined as I come in sight of the prize pack. They are pokeyon course of wholes. My screen becomes Annier's evens, and every burth I stungt Fox and Three concede with grace

nione 2-Aster in the Burett I know wheel space through the square Data chitters through me. I take hold of the wheel I want to be reads and unlocks shaking me bosterously I watch the polde window, him the

back wheels ken and make up, then I'm down like a good boy and let me win All of a sudden I have a pacemaker

three Why Greeky-why not Ashat? The Gentry must have popped a orl I let him come elegande I know he rides with a clear visor to I let go the wheel and wave to pice him off

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elso Martineau is toolling towards the lan if or nice as dignified half length aloed of him only Carthy's been oning like a madman behind me for the past be orientees and this too hyped to slow down.

And as I pass the line I realize I'm of different I bor am redould to disage. Aboth it is longer frame for death. Achiel mode on Est. ye, but they 4-bor mate me safe it out? how Muscale me safe; to out? how Muscale me safe; to out? how Muscale me safe; to out? how Muscale had been safe; to see that the safe; to repairing in their myself is the oil the others. A like-haring thenging a phillus-coccon frozing nate ways to dis With yeals and I lot the Programme.

Whitper from names: Depaster Weneuver Willy Manager up on a view of a hundred thousand chairing wouldbe succides I smile and wow. the our and the wind dry my tess? I put the jack out and adjour my

I put the jack out and adjour ing fight pents and get out of the car Next stop the champagne Misureon Hasers at up on the podum. She hase a smile like clearh and only if. A hudu get hande me the cham

pagne magnum it is vary hot have My hands are shaking it gots dark. I look up at the sun, puzzled A blood-spot on my sitina receding

I wake up in my hotal room. Catharns is sitting by the bod. I look sound. Angele's not these. "Is it over?" Catharns crisio. "It's over." "Did I do—what did I do?"

"No?" I of up in bod and it feets the I just showed my head in a minour I take a deep breath. "Shew me now" She lights up Angille's PC Whate is she"! watch the soun. I see

what a bitton TV addicts have lived for all season.

Mr. I don't believe it There, on the podium, in front of them all— Tm maskutbating. Warring mare!

To stricks I don't know whether to laugh or throw myself out the window When it soer my voce is high with hysteria. "How did you—how could you didn't—h—" I fonce impact to stop Tears of rage heet my choole "You didn't. Do Anything Look again."

My wyse are drawn to the screen. She is right I don't do anything, but by the end of it film shaking almain with chiquet and rethiceting and tescinated troubson. It's some than the act their could ever be. The power of the property of the the property of the TOWARD THE INFINITE



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THE BOSICRUCIAN ORDER

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AIDS I'm hatriden anain. I turn to Catharine Anglie must have lold her I like line She's pourso me a turbler 64 "You richt Curwater did Intoxi vou

"Yes," She hands me the tumbler

dance." When I calm down she sits be rade me and asset. The Grand Pax A say? But will men over be able to draw fourthead has lampsoned it so ably-

She shours: She is prepared for my "Those one other ways to draw " she

save. When Havens sacks you as the Through a veil of shock I sense the colonial behavior her warris I camous

But Drow will I ever about my face.

agam?" lead and as the walls her less grow lose pronounced, her cheeks have rwollen a little--- and Angele armies &

his of monitorion "Angele says, in a voice I do not recognise. You claim no ture, a turn of the head, a way of lowthe white brich becomes the dusky

more." I also off the best and walk olummility and men may harry many her house I feet for the first time the ROM port bemust hid feet too hil flow What a clay. or donne Helane has written for her! My heart solts up into my mouth

Hafe " Her tongue is het on my cheek She laughs, and the sound is a crown seemed to be a major webserk

Sond that AECS shapes a striking number of sentention with GVHD, ALDS par hibit skin lesions—scaly: psorapsiske

sen Both groups share frequent intesdifferent visions, bacteria, and funds researchers couldn't it AIDS and CNHD into the same conceptual po and GVHD as a transplantation reacton. By the early 1990s, however, the had too many obvious parallels, a resis similar to MrtC and therefore pro-

vokes the minute system into destroy AIDS and GWHD was MHC. But if Bolmmissing MrC antiques as Hollmann conditions the molecules from every cell e refects.

Strong confirmatory evidence for 1992 from a croup lad by Larry Arthur for of the National Carner Institute in Maryland Arthur examined highly puri-Sed HIV preparations that had been arriquets of MHC and other related protuelly outrumber the viral-coat protein

HV carries a medure of its own proteins and MHC molecules from the reals of of the infected person is trying to distinguish the your from its own cells. 6ly confusing for the immupe network. or HV might be accord cellular MHC

and its cohorts rights then against HV from of States organol sesuits - that somegoopse as HIV, even when no your is present—and of Balagnesi's Indings dupe the same response in the minute response regardiess of whether you

for the degrap of specific AIDS vaccages that are based on the use of killed vinumes. After all, holy could you try to inagainst HIV if you could include a response without the virus? Many people however, it intrigued by the cossistato, of designing a vaccine against HIV by the it. He thinks that once a person't enter the printer is comed with a cockand of MAC managing the process and be protected against HIV through my these targets that are carried by the in-

that transferred somethoric with fireprocedure is a long way from the origin and extension of desertions a specific vice one directed against HV. "We are got ing translused all the time with foreign crefly, want mention the pains of frequency taken reaction were not as great as we many's descriptory of how H.V. can resp. MHC underlines how extraordrashly clevsmaller than our own allocation of perietic priormation on atting to a thefy turn the

ing if, by evading every alternot of the

system to neutralize it, and finally, by

sell in a nell-destructive hency. The late Albert Satro won wide for his work in designing the policy via one in the Fortes and Pritos in Sopboundary 17655 has belonder to come cheloscopie. ing and blurs—aracle in the pressig in which he said that the approaches search for a vaccory against HV were fulfile Setari, a mecrotrologist whose rebeing daveloped are sirred at neutral of safes on then beloom

According to Sabin, injecting monkeys with HIV or its monkey equipment A DS, most circulating aggres of HIV are safely tucked away inside cells and mune responses. Trying to develop a doomed to failure. Sabri gard Hundreds of millions if not billions of dollars intected person's palls. Because of this false cramine. The vaccine feet is Mortwith distortions | he said Boloone raised some yeary important issues major port of HIV's entry into the body portion to Salary, a viscome that a effec-

ise for future vaccine design. For exam-

correct hidden made our cells. It dislycs, it lies at the heart of Belonger's

Five years ago, people thought

then a person is exposed to all sorts of infections. In 1993, the novel ideas that LIM exercise \$8.0° molecules with it that if mittigs the impure system, that it fools the immune system that ADS ease have prompted the question "What actually causes AID57" Are we many engines are yelding to sorutiny? duce another actor on stage. Mycophis onstrate the fact Hoffmann's experi turbation of the immune network which results in the destruction of the deed. MHC may be the long sought And this is a new beed to a story first? a decade oid. Although robody (with

looked into destroyno esel DO



OZONE

icly funded institutions that claim to be

gospel out?), felong data, pushing a can-

CFCs at any cost, whatever the tacts

scale industries in the Trind World, nolabed about could need in more over-

manufacturery to come up with a het-

to gain. The public will end up paying

those accountly to mor CO

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In fact, Martin says this may have had

each emitting non dust over a distance

to the NRC the schame could alminete As plans to hait greenhouse worm-

years Yorn now, nimospheric carbon di no carbon deposés. The deposits, in to believes so much divided would be

Martin, however, says Sermienta's estimpte may be unday harsh "Some he points out "That somulates

rious formation, which should add to With luck, well know more by the and trication for clobal warming it has any STOP SWEAT combat racess messt -

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great proposal is approved Market acea 50 to 100 servery lefernature about 400 miles south of the Galapa-SEAWIFS satulitie acheduled for launch this August. And on-site moreeffect on the atmosphere-enough, perhape to recommend the fertilization tochany means of lowering terreatrial terr-

problem facing geoengineers. The offer present usue is the hole in the consumer use of cherracals called chicrollugracurbans, or CFCs. Some sownthrough the gazon hair each spring of the air for up to a century of we

cone with their One possible answer comes from at mospheric scientist Richard Turco of the University of California at Los Angrise and he colleague Reigh Cicerone CFCs do not dealtray agone directly, the

itals when the man striken them during the polar sporg. The products of

In theory, the plan is simple. Just use

long right. Give it a month or two for the wind to mix the cas unformly. And when markets returns to the Pole in tios September-nothing will happen The CECs will still be there, of course ery year. But in other respects, the at mosphere will be no more politifed Of course even Turco and Geerone

con's mile in the open appropriate. If his and in the real world. There are so many suggest schiefly doing it," Closrone is ments. "The remeans must be songer! have no idea how to do it. If you get too Ittle hydrocarbon, it actually trakes So far, only one alternative has autsped—in the form of a Star Wars-Philodian University physical Thorass One extraord later light trought to fee right frequency, can zan CFC mole-

cutes, selectively breaking them apart scathed The lasers, working from the surface of the earth Silv arids wouldn't even be polluting in fact. with the deployment of the latters, witholes—would be cone in a decade. But like other geoengineering with obstacles. "So far lasors aron't nearly efficient enough," Six reports. "Ustric bill alone would cost more then bee billion dollars a year I hope someone will come up with a schome that doesn't need such intense bearn. And that, for the groment, is where bulk all would be decenomeers noncede that a painters oure for global warning or ozone depletion remains gloser to hope than reality. The blue-

be progressoully implemented, if them preposterous," Invine's Cicorone concludes "A lot of our colleagues some of these things because it rem-

a technological fix. And there's no taking about society should deal with mental problems are outton bad

ar other was of riggins with from it. the future " When that future arrivesnecessingering radical as it seems admit the concept peeds a lot more portors on planut Forth DO

FIRST

ment, this kind of attention almost always has a postive effect, and it bolsters non-monsored collectures as 21. "It is important that the scientists in they have some support. In Police's we foil as if someone were with us. If you

Will this annuity impound to future conhast the events? The Crinese leadership has much to pain by hosting scientifiagine those meetings lead leadingers. to Belinc's terrested international incommoned to authorize these corrier be halted. Furthermore, it's possible to entric hosts from any suggestion of inwithousers, rioristation property and re-

consectifie contribution the intercetion ing their freedom by use of these same methods at meetings sponsored crysts for an engineered almosphere ernments land to respond to human entitic exchanges, waiting scientists are in an expelient position to sound the

notes practices DO

corntro Court Chris Moos; prig. 2, top: Orni Naughr page 2, topoch for Marchine Priss Fessionahmi page 4; Plant Clapha, prigs 2, Montaley Bay Agrantine, page 16; Ost bagging Comma Lilliano, prigs 14; Montal-Tado in page 16; Sill Distrikt, prins 52; Amma langs prigs 20; Smith Shorter, and Pod 78.

susception page \$2. Dien Flatter page 101 or militato Fina archora, page 30, tap flory, illusis page 30 model indisty con raffee instudy page on more illustry con office the age Sumir, plays 30 battom. Ted Lines Process Fass, workers page 16, tags Thi, things David pag. 30 battom Fass and Georges One and Thi Imag. Basis, page 40, tags Outer Potamo page 10 bottom, pages 1 and 15. Organization Springram, page 42: Liu Millin proper St. Springram, page 42: Liu Millin proper St. Springram, page 43: Liu Millin page 53 top Day i proper page 50 martin. Date i Marris Honer Licipion pege siz middle, Duku University page 50, battom Honer Prefi page 54 top Description page 64 models and Indian Place Lepha, page 54 mobile and bottom Tho to Researchers, pages 62–62 Photo Research-ers; page 64 Proto Researchers; page 75 Rob Askna/Proto Researchers; page 75 Stories June 1 maps 77 Scolable Deported Page 9

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GAMES

A GATHERING FOR GARDNER

Puzzle, magic, and math devotees pay homage to the man who inspired them By Scot Morris

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Indiadons, and as week later, nearly 100 of Gard neir it brench from all own the world had agreed to come They halled from three man fields multiwastos, puzzles, and magic Two journalists—Will Shortz, and to — togod along and 1— togod along

and II—tagged along
At Setundry might's denet, Ken Knewton unveille
a portrait of Gardner madfrom six complete sets of
deutele rate dominoss
(above). The ongrail is

to of terminal state of termin

"Asmes Dalpaty, Metagrebologist, Mannead, Engbard." The word meens "puzzle enthusias!" Beet book resorpoon, in Max Marien's Book of Fortunabeling (Prest, on-Hat, 1992, "TRUTH LIES HERE — Max Maver." Beet leve overhaard on a consolid dissister. Error

beer Mer overhaast or cowdad slewtor. Item magician James Pand. "Bert this a great total?" It bewill are so rice and fulfy—the last sme I was here. I could hardly get my success oldered?

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been hase introdentally, many people open hase that Gardher is a several mage coteany, unfortunately, he niver performs Merch Gardhar Phasens published in March, is a hapdower

March, is a hydrover collection of all of Cardher's magic ancides since his first combustion to The Sphritt in 1200 when he was 15 years off. It's available for \$50, pospect from Richard Kaumain, 6325 16th Street, 4124, Silver Sphritt, Mary Sand 20390.

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