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FIRST WORD

RACE MATTERS: Analyzing the politics of patriotism By Greg Meyerson





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Confederate flag and the mossage, "Hernige Not Nete". Propile need community and cubural identity, so some get their sense of belonging by homoring Patent E. Lam, athership homshould home "Heamer Tubership homshould home "Heam to their and home their patents." If Stack on hyre an NAAWE" floar. Whose have an NAAWE" floar.

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COMMUNICATIONS

Nuclear solutions to ace-old disputes, plorious gums. and receiving signals from unknown origins

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POLITICAL SCIENCE

RICHARD NIXON REBORN

By Tom Dworstoky

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ARTS

GETTING A LOT FOR A LITTLE -FGM's Monolith is a good film on a modest hurinel

By Bohart K .1 Killhoffer

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IBOGAINE II: DOWN MEMORY LANE Does one trip equal 30 years on a therapist's couch? Ry Ning I Diamond

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SOUNDS

It threatens your hearing and your health By Robert Angus

verybody knows that pro-

 longed exposure to loud. m none can demans your hearing But did you know that raise may also cause or contribness in adults as well as learning More than 28 million Ameri-

tal Protection Agency entirements ber about 40 percent of the tonert hearing loss Couple that with accustician Alice Suter's con-

health problem The dangers of noise are, unthose from most other health haz-And noise measurements taken in the same location at different trees programs different sequits. Finelly, noise can fool the human unit used by acoustowns!--beleved to be the smallest incresound energy in fact, when

ness to us is actually a tecloid increess. 10 dB. In sound energy. et suburban neighborhood generally recrater about 52 dB, while norance about the noise levels inside their pessenger cabins acquistical expects out the level at



for of the measuring device, and whether the plane is ofmbing or cruising. A Los Angeles apartment immediately adappent to a sound actually becomes physicaleatin level for morae

While the threats of noise to oun trigger different sorts of health sales. For measurely adulton on symals indicate that problood pressure, which from remans elevated long after the

tried to reduce noise levels by utand acoustic tiles. Unfortunatoly, there's a rather modest imit to how much sound these materials can absorb. The modern aprather than sample isolation. The

used this principle in the headphones it developed for a major in the ear cup that determines then penerates a signal that s nal with any program melenalandreffin instructions, puchasis, or and sends it out to the wearon dittin without the headshoose doesn't perform noise cancellaion on higher frequencies retriniis two addepotal manufacturers-

For those of us without nocess an exercises of the type recommended by the Occupational Salenoise cencellation best screens kind that interferes most with speech melicibility futo molest Menan and Ered

and several serospace research ing to apply active noise cancer. with no far plan falls short of the individual headsets produced he Sennheiser and others DO

WHEELS

FUEL-CELL FEVER
Power source for a future generation of cars

By Jeffrey Zygmont

by Natl cells instead of batteries outfor provide the long differing langua and repair refueling weath acoustiernois to without spewing polluzaris. And hydrogen is as primata as one water what behalf patlate hydrogen shall be a langual. Governoi Natures Allaed Bignall. Gov. and Lockhood have fuel-cell programs. The Inchnology bosses its own kitblying organization, the Ad Hoc Coalfore a subconstitute of the Environment Constitute.

This is a high stak, high-payoff facil it decomes a lot of government support; way-Paul MacCheacy founders and character of Aerobivorment, the engineering families that the subconstitute of the subconstitute of the size of the subconstitute of the size of the subconstitute of the subcon

Challeterine 2 ones general asta discharge try chamical readton But betanes require reclining —cease and using electricity for chaming the battery to its original, charged state. With convent suchnology if may take up to several hours to rechange electric ow batteries, even after a mere 100 males or so of charge.

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white were taking about a ingenering and engineering yields to money, says the coocination of the lookpying group. He expects that once fast-cell featbility is apparent, preside sector. R&D will nearly take off. If am condent that people will find ways to make money selling finel-cell-pow-



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STARS

MEASURING STARQUAKES

Asterosesmology could enswer ancient questions about the universe
By Bill Lawren

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ELECTRONIC UNIVERSE

DEBBIE DOES SILICON VALLEY

By Gregg Keizer

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MEDICINE

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THE BIOLOGICAL ROLLER COASTER-Chronobiologists study the body's natural rhythms By Hunter Whitney

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SPACE

SELLING AMERICA ON ORBITING ADS Madison Avenue commercializes space in its distinctive fashion

By Devera Pine

I space as the Star Tree oredo coes is the final fronter. f, strywwy). And who did the tamviel/Russian space program? News -- Arnold Schwarzenogger 1 act a remar milition of female permert Transporter (COMET)

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Those resides include a chang-



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UNTIL JUSTICE ROLLS DOWN LIKE WATERS: A memorial for a battle that goes on Plus, laughter really is the bost medicine, and sneakers show!

Standing on the top step of the Southermill Power Law Center in Montpower, Alabama I can asse the fring more of a history in clamps of dispray into nation, at memory as, "That was the pase". I can see the Souther-Memory Depart Church as the Souther-Memory Church waters insecting the situation of the varieties in the situation of the converse in the situation of the situation of the capital claps, the same obtain when John Insect Dates waters to light the situation of a Capital suisking that credit 1000 tow the Confederate Bills.

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ing old-lights abuses. However, it was the fancinant case. Donald v. United Klans of America (IARA) that categorized the Center and its executive director and other first counsel. Morne Dees into legal legand. In 1981, the body of Michael Donald a Black obtaint at alocal college, was found swinging from a camphor free. A

Sowmilde swing, the channel namining of a cross intern found on the most leave of the occurry countrouse. Two local Klar members were convicted for the lynching. Here the story might have endade had not the Carinar seen an opportunity to seach the Klain a lesson in responsibility Claiming that Tr



Architect Maye Lie knews the power of words and water.

gor Knowlos and Henry Hays were acting on behalf of the Klain when they mudaned Daneld, Desis angues their the UKA was responsible for the actions of its members in a cell as the first of its lend Dasia won a \$7 million vendorf in puritive damages More recently, the Center won a smi-

More recently, the Certal way a serlar vestability at 20 milen agent from und within Matzger and of or members of a revenible of them the congroups and thus limit the nocursor moded to consold the google of hale and less and the mythod Whos superinary, As impossing a the legal vestability. As in however, they are only one apposit of the however, they are only one apposit of the Wey beloom in the order apposit to an own they beloom in the order apposit to an own to years. "And so the Conter has selwith by the condition of the contral self-appoint his few for the contral self-appoint his few for the con-

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fement and as best of import humanisms por trade in Richard or a season in approximate gas register a Chargo who as due to a season in approximate gas register and landing landing and the control of the control of the landing landing and the control of the control of contains of more control price forms greater, counted controllar souther the form of threatering letters, counted controllar contains of the control of the control of both controllar price and control of both controllar price and controllar price and controllar controllar price controllar price and controllar price controllar controllar price controllar controllar price controllar price controllar price controllar controllar price controllar controll

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CONTINUUM

A FISH STORY

Nature programs kolianee age 4 and then detenorate live longer, growing into So in 1994, the backpoints

hed approved the treatment but it had never been put storie, the tsh grew goods. and althruch the absence ing, at age 4, the kokaneewhich by ristate turn hambly developing humped backs them to live a few months

He cycle. "It's a fair criticism. God," Japhet says done as a full-blown study." Jacket save __Tomoso Topinky SPACE BIKERS

from basching caldium and

ipgs on the orbiter's bandtonger, but evertually insture | ments on board To bein NASA necestly



belong Missularhet tested three stationery-bifrom some en mel-rights. to reduce vibrations astroto counterbalance the move design called for the astro-

> spider-web patern of eight AND 79,000 FEET HIGH. IS ALMOST THREE TIMES HIGHER THAN

interesting inde-prefy sta-Connell, an engineer for Knug | bike, on STS-60, scheduled bike on a special amplane

Finally, the astronouns The results are in on the by the base and by normal planned to test a new loke lose their propulsion when

AND CALL ME IN



While buighter has long

combining the best features of EMS and the burges -Drivera Pipe

WAY TO SPRAY that can contribute to szone countries to ben chlorofluoro-CECs in most necessly, but they're highly farmsable and



held sideways or upside for NASA on the luner mod

creases heart rate and

serve -- Peter Collehan



ARE ACTUALLY MADE

expensive in the long run, as

Rechargosable batteries sup-

X MARKS THE (APTIFICIAL) SPOT

astonishing varyor of enrices hips to Gore-Tex ligaments to Janvik hearts. Now accordeds. The stave, "we already bewer important step toward develorgan of them all an artificial

some toward the genter of a middle part galled a pen-

some will be a sort of genetic blank cossess, ready-in

Goodslaw cautons that it could be a long way from theory to reakly "In effect." be able to put the DNA we

a war or two whether then as a sort of "delivery vehicle" disrese-causing descendes

-- Fill Lowers "Man the themselves in





the near future -- Bruce Gen



CALLING DR. MTV

How do you keep a young Just turn on MIV Psychologist Vaughn Rickext of the Adonness Children's Hospital in Little Rock tried the technique on 30 females undergoing a colocacopy, in a magnifying instrument Understandable this exam arreous and fidgety, which only prolongs the exam. So patients during the examinawho got they MTV he brand

most soothing offect

Whet if the patients are Crostry, Stills, and Nash age by Lawrence Welk." -Bill awren

A LENS FOR YOUR FARS

A San Francisco company heaning device perfect for ReSound's Earlers con-

ANT SPECIES IN GREAT BRITAIN, THE SAME NUMBER OF ANT SPECIES CAN BE FOUND ON

A SINGLE TREE IN PERLI esti fiest tuode, about help the size of a contact lens attaches to the eardrum with microphone olips to the wearer's cicthes, and held, which makes the vibrate Freq Design of Ralo

Alto California devised a loop for the Earlans, worn "Venesse Williams had the Ricket poins, "and Madonna

and hopes to gan Food and Drug Administration apformed tests with rex heaving-

ReSound made The consensus? They all commented -Bill Lawren

ruits bewin aible to follow the

FAKER SEARCH

sites and dates of the ingraham Jr. of the

spilled streeters' paths.





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USE IT OF LOSE IT

French researchers have you'd better use them. The in normalisatual occupado those who hold intellect

As part of a larger

ACTUALLY COMES FROM CHINA

greater for farm managers. service employees, and 2.5

tiques. He discovered that the subjects who per mental tests were not those with the most ephycologic little education but with

intellectual workers might ous chemical solvents in arelysis Dartiques says, 'We could not find a relateachers, managers: lecturors executives, and profes-

-Paul McCartty

strake that muscle fatious is the synapse—the goo be-



UNHEALTHY LLIANCES

This is "against the spirit of science and possibly - unprecedented access to exclusive patent rights to sional hearing convened by Representative Rep sell fratedorm Scripps, which receives \$100 million annually from the NIH, into a "subsidiary of a development of promising freatments, Lawrences effort-and the exclusive rights to breakthrough druce formulated with American barower dollars.

These agreements are "nothing ureque," counconfidential. They insisted there was nothing wrong with selling the notes to more than a billion digitors. of taxpaver-supported research to a European company for a fraction of their cost, Scripps with Sandoz only when Healy threatened to out off

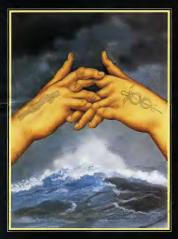
Unforturately the Source people are right The research forethis and the behemoth charms. couried intit unusual. Since 1980. Concerns has a scientists have become sufficialists many times

ed to hersion the transfer of technology from the bright spots on the nation's economic landscape

increase in the patents of inventions developed ones of their contract, which they said was the 52 billion betech industry. But these laws coupled with the probusiness, antirequiatory stance spawned unwholesome relationships between

The aflances distorted the research assess in firster of a shadowy amalgam of moned special firely new broad the scientist-entraprensura, who enacted several lows that give drug companies over through their kinks with biotechs or pharms

academia government and industry



cautosis "Medione sent what it was," says Michael Willios, a professor of medcine os UCA. "In the peet, people did research and had high efficial standards. Today, everyloody is hoping to make biss money."

An effective of science superstand have possess unprocederated power. Their presence on a faculty can propel a second-ter instruction to the front ranks—and enable the university to kerningstrucks benefictes. It's no begi-

ranks—and enable the university to live magabuse beneficiable. It is no beger university for superinoval such as geneous Long Hood to negotier a such as gemillion pedago over direne with 6 satilabased to decrease activate magabas Williams Gatter III to relocate his bistorestry from Caltech to the Linewhely of Washingon, like a Hestman Topity winner clickening over toking and perior. At the same time time facility for any At the same time time facility for any

were forming partnerfolips with big business. government oversight agencies like the Food and Drug Administration (FDA) and the NHH have been gutted and politicated after 12 years of no-tenbersigh neighbor 1 have been gutted and politicated after 12 years of no-tenbersigh neighbor 1 have been lax in cracking down on shocky coemats in hobbid

on shady exembs hobbled by a lack of rescurses, and confirmed by the vastly superior baces of the multible landstate though adultify they re-emusted to police. It's getting hander and herdie to find a government againsy that stands for any fining," says George J. Am.

come, and Ethics program at the Boston University Schools of Medicine and Public Health Attractive and Public Health Attractive and Health Attractive and Health Attractive or the Health Attractive and Health Attractive or the Health Attractive and Health Attractive and Health Healt

that of instead regulations designed to discourage mixture of ledered grants. Today, sometical related from the first particular for the first particular from the first particular for the first particular from the first particular for the first p

Mediord Massachusetts

Basely do the interests of the public enter into this coay equation. This labs and the drug companies are remaining one another, outling sweet.

heart agreements and yilling the taxpayer, sould Representative Rem Wyden. But it is Expayene who pick up the totand offen pay two-by benrioding feeerably sunded research and by paying exertisting prices for their pres formulatof at temperature surprise.

are and a state of the state of

The pharmacustical industry spends about \$12 billion each year or research, but a recent Sendle probe revealed that if spends far more on peo-

"ALL WE RECEIVE IN RETURN FOR THE EXTRANGANT TAX BREAKS

INDUSTRY," CHARGED SENATOR DAVID PRYOR,

"IS THE HIGHEST MEDICATION
PRICES IN THE INDUSTRIALIZED WORLD."

In motion than on develing new theraping sold. Of the SRT billion consultrent shelled size, six for prescribing disturbing 1, 1800, 35 per sold.

proits while only 16 percent went is in drug development.

And very life that a sincustive energy to a form our corporate labe. Went have in mouseless released to wait formulating "me too" or copycat products.

so ucts to compete with model institute than genurally were design state shared model in all bearment. Of the 648 drugs min closed by the 52 longers planmanously closed by the 52 longers planmanously closed by the 10% as or 5 percent near deemed my 10% drugs proposed solvened by the 10% as drugs planmanously drugs planmanously drugs planmanously against the visit migrating. He percent years the visit migrating, He percent were seen as hearing files on no potent sall for advections in traptiment.

> that have a substantial therape in are produced with governme ernent and up to half of the mo

pomenty ATS and centre things are contracted in government or unreading above. We that it is to do do until the industrial power of the industrial power of the industrial power of the industrial power of Medicines and this Medical Position Code upon of Medicines and this Medical Position Code upon of Medicines and this Medical Position Code upon of Medicines and the industrial power of Medicines are very efficient in the industrial power of medicines are very efficient in the industry approximation of the indus

genfer manopoles has accounts for much of the initiating is particularly."

Even more obtaining is a 1980 GAU in report which from that \$1 percent of PSA approved charge have someous possappreved charge have someous versi mestions that lead to several versi mestions that is account versi mestions that is a versi mestion to several versions and versions are several versions and provides the several charge of the several provides and provides and provides and provides and provides and provides and provides prov

fects are negligible or even harmful.
These alarming trands have sparked Congressional inquires and raised troubling questions.

email an assert in "All we recontrol in search in "All we recolive in return for the extravagain't tay breaks we give to
the drug industry," changed
Senator Devid Phyor, who is
calling for a cap of drug pricea. "It the hydraxt medica-

ond ward?

The innovation and bold-ness of visco that made American branchical research second to none seems to have been lost. What went strong? The problem stated, any orallic second to none seems to have been lost. What went strong? The problem stated, any orallic second stated, any orallic second second to the control of the second second to reof cause of other second second to reof cause of otherse.

The source of sent that of scheduled in the read of the read of the sent to 1980 Bellyn Cole Act, which was augmented by later (appear to the registrate). The lapse unswellinders the rights to the persons on foderably Later (appear which interest exchanges to the passes) which resides deshoots to a statute outpoods dollars in enchange the colours was locating appearement on all the colours of the read of the re

 search as an incentive to boost R&D is spending plus a 50-percent tax credit for expenses related to formulating so a called inchandings for diseases at called inchandings.

TAXOL: THE ANATOMY OF A DEAL

In the late 1950s, National Cancer Institute (NCI) researchers scoured the globe hunting for substances in nature's pharmacopocia that curbed the wild cell growth of cancer. Taxol, derived from the

ry currouty until 1979 when scientists detected the

searchers found a way to depend texts, which is coma Johns Hopkins learn, in a test of women with advanced ovarian cancer, made a starting discovery

could top \$800 milton annually. The NCI which has process immediately solicited proposals from drug mak Development Agreement (CRADA) for the commercial

ly control over the data from federally funded research, BMS pave no roveltee on taxol sales and a pittance

company threatened to avoid future collaborations. Ron

price on BMS's refusal to furnish its development

Scientists were editate, halling taxof as the most licence. While NCI is not run by rocket scientists. says Love is child with a fourth grade education and development and manufacturing costs from a review nuncariteed that PMS, "the NGCs tayonte pariner in

officials stoutly deny any impropriates. however But it's no secret RMS enjoys a pory relationship with the NCI. In fact the company has built a multibilionprices at \$1,000 per treatment—roughly eight times one between the military and defense contractors.

continue to a 1997 OTA regard class com-1987 (the most recent year for which to Collaborations between academia

turned into a free lunch for private cor-

for them in the fixer place."
The agreements, like the deal bateon Expops and Sandous allow drug before a compared to the comp

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ed to their repetrch. Most notable

among these are Harvard AIDS researchers. William Hasseline and Max Essexboth of whom own a help allow of combridge BinScience, a Boston-based bicition that makes among other things, an AIDS artibody test.

den AIDS entbody test.
These elianos have a chilling effect on asseanch which often gets skewed to sweet the refer of the oppose pale town. Them is been an increase in many passed to be considered to the control of t

words in the large term, says Bosant Liesinstry's Annie.
But some of the groutest breakhoughs, like prescribt, are serindentown at 1906 study of the origins of the rows at 50 years resided that any other vacual 50 years resided that any other should be series to the series of the Scheribits bound by corporate comtracts are also expected to adequate the series of the series of the series of the contracts are also expected to adequate scantife process and creates artificial displant belower flowly. Holder may be the save sound belower professor who have prored the gold night and those who have the flower that the corresponding to the properties of popular than the properties of corresponding to the professor properties are the sounds of principles of the sounds principle provided that properties of the properties of properties properties of properties properties

greagest auriger to markets that beachings at the exception of the visuality game" on campus. The cross pollutioner also managements are considered to the control of the control of the NET Somany to positivities have either element into cooperative agreements, or CHADAs, or simply left to sunnit their own companies that the hours of basic reasons that it by defining homodomic measure—and by defining homodomic.

inself-could be in grove poporaris. The first of filesco-GPADL patients stips was signed in April of 1998 between Genetic Descoil Consequency (1971) are yet at the filescoil Consequence of the GPADL patients of the GPADL

Since here the AH has extended to approximately 250 of these arrangements, and descriptioned are the average works. We have helf in track record of protecting the public tractes when our to be a supported to the public tracket when our to the public tracket when our to the public tracket when our to the public the public the public the public tracket when our to the public that the public the public that the public th

How AZT, first formulated in the 1900 by tree-criters on grants from the Netsonal Center in 1920 by the 1900 by tree-criters on grants from the Netsonal Center in 1920 by 1900 by 190



Osea AZT possed regulatory muster in playing the played by AZT however, the large played by AZT however, the large played by AZT has already seen movely securious. But not play the playing the polying the polyi

tional Cannor institute—and I (and remain) estimately disappoints this sum of swints.

The entangled financial with twen government industry and demail also fishers conflicts of info remisses taxe their own network of principal investigators (Pis) between situation of the companies of their own decicles at leading medical schools excultantly who conduct the descall mals. Pls are compensated for the mork and their academic institutions receive a september of cover over-

head costs for the male. But colorate to But colorate to depend on the male of the male failure of the male flag male seems for the accine medication founds by Ortho a warried water feet of the most Beans in the colorate of the male flag male seems for the most Beans of the accine medication founds by Ortho a warried with the work Beans of the male flag male of the work Beans of the seems of the s

the Haritan New Jersey-based Ortho, made millions.
Of courses scientials bridle at the suggreation that their corporate loss may influence their findings. The retemby resies flags: losys fulf it Keinnath Katin.
That you are moreove industry funding archers incomes along with sizmatarums to their universities for out their facilities it is Nimpting a meaning soon on the data

to put a positiva spin on flav data when any often ambiguous. The chuy industry as more likely to continue purency microlly to those whose reside show that a compound as yet and the spin and offentive than those who don't say to 25 show that a compound to the says. Dr. Sahney Width mod of Police. Loborative measured within the police of the same of the

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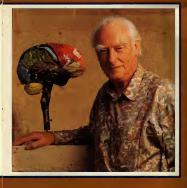
* Article by Daniel Voll . Photograph by Alan Weisskoof *

The Nobel burses who 40. It was Risks the eight- chine is neural machine, have located the soal of the Call trettine in La Jolin . a Mill or Machine "

DNA-the master reciecule itsis, in trying to declaber, experimental study of conthat contains the genetic that which should remain in sociusness and its relation what Crick also calls awarelooking the Paratic Doesn at . that which is Soul & Life into . cs.) immortal soul." ton is bent with his compass - now 77 baldly sets out to dis-- yeast, assembly of incree - after today to describe the measures of monte monte experience. The Bleis would have found accommon wars arrest of sciousness is actually a mo-heretical. Crick also downs to course with impressive

orde_is to bis office two. describerable would Turn, ship flars to be twoother, sees-is not new Bull with California Figures Citris is. If Blake were able today exist declares that all of our ductionate in science has studying a postpard regro- it seems a fair but that interior states love and so- paned one of the hottast sciduction of William Blake's. Crick, and he new book The I rows, our memories and am - entitio debates of the decforms withing of Issae New Association Association Ton Indiana with our personn and And his years, by reton in-which the great scient. Scientific Search, for the identity and the chereful no limits are a "head-on control test as depected regised, sit. Soul, would surely provoke from of free will, are "no diction to the neighbor beliefs." top in a cieff of took. New Day on In the book. Cook, more than the between of a cit billians of burner become

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when Crick, having spent the war

to work on. The two subjects which he ence to explain. "What altracted my to mystery-the mystery of life and the mys-

years ago after arriving at the Salk Instrute Crick

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understand how nerve cells in the

"IN 1943, MOJECULAR BIOLOGY WATSON USES IS INTELLECTUAL

CHAOS THAT IS EXACTLY THE STATE OF REALN.

RUMBLING ABOUT BUT NOTHING VERY CLEAR "

rong-comparable to all the state in our waves. Chick says: but they do object

. We have a very year necture of the

of a familiar face?

interpretation of the visual world. In a

say-your brain they

Druck respects that visual awarethalamus, which he calls the lorgen of sheets of perve palls, one on each

Often referred to as gray matter the cor-

undenstand and ours what may affect

Astonishing Hypothesis: "Let's face it; at this point my hy-I don't know the answer. It may turn out that the point of take Your idea may be wrong. Whatever is discovered about the brain in the future however, won't be very

the catalyst for better or worse, and we have to constantknowledge? It's difficult enough for doctors to keep up with the advances in medicine. The nature of whatever

Theory. "Keep your ideas as fluid as you gan, concenno use como into an area with a foxed set of ideas. You have to keep a constant state of violance. It's part of

your stock in tracin not only to have irleas. In it to have a worth It's like investing. You vestments to pay off."

very deep part of my nature. I lgidus one, readed a high decould not be dedicated to any-

fing unless one believes in it The Prize Discovery, 1953 Talk is mainly what Wetson and a little"model building toward the end, but mainly it was

crystalography we learned from others, but often we trught cursolves, not always correctly of course. Had Jim. have discovered DNA alone. When I was vouncer. I was indefetigable. I remember people like Watson telling me-Christmas: "I was tried of Christmas trees, so my son

Michael made a graffe about so feet high, with chicken of Christmas. I think our culture should pelebrate Newton a betholiv, which is also the twenty-lifth of December body modern rather than somebody Not everybody

Brain. "There is one fact about the brein that is so ob-

Postmodern World: "When I go to wait my grandchil-

dren. I cannot unconstand what they are saying. My son Dudes with Attitude I had no idea what that means? tions for clarification--you know. What's a dude? "

lighted beyond any masonable doubt as year meet, yet in the United States imflions of people still stourly defend from reading the fibble too literally. They usually deny that arimals and plants have evolved and changed rad-

ically over long periods, though this is equally well as ly to be unbessed since their years are predsterraned The Neurobiologist "I don't think there was a general

> 50% Scientists are all

> People don't say 'Literary peo-

glocy I think the general reaction was. Who is this old "HAD JAMES WATSON REEN

lab coars-that's the stereotyphow much if parsists." KILLED BY A TENNIS BALL, I'M Einstein "Theory is as much NOT CERTAIN I WOULD HAVE as an adplescent asking him-DISCOVERED DNA ALONE."

> question arose years later, his theory of relativity Psychologists: * One might have expected that the meor effort of psychologists and reumspectats would be directed toward understanding consciousness. This is far from the case. The majority of modern psychologists ornit study orders into consciousness. Most modern neuroscien-The Wist Analogy. "In science, thanking in terms of mil-

fary operations is guite usoful--though people don't like and the whole arrangement changes. That's very much how the development of scientific research goes. Like scisurface. Then you get the temperaments of generalsontaits. And, of gourse, there are the ethical questions

Responsibility: "Sharetests are a let more approble respons

best a few milimeters-but others. often covered by a fatty sheath, which

This communication system handles both explicit and implicit representaextensive processing. An implicit one

belief that what we see is mave or if

ly, where it gets to and which neurons

Some of Crick's policerum at the

ng that he'd located the sext of free When prompted this approuncement league Artonio Damasio la well-known neurologist, of a woman who need to

sponsive lying in bed but with an alart expression. She could follow people taneously. She gave no verbal rapily to way she nodded in reply When the worn-

receive even though she'd been able to Her mind had been "empty Crick was rangued "I immediately Crick was delighted to learn receives many inputs from higher sensory reor near the higher levels of the motor plan is all?" Apporting to Crick one of olan movements. When is the connect-



make a release as grasp by saying "Lot gol" in a loud voice. These cases tas-

When remoded of the widespreed belingoked out after an insury. While the

is on a shell nearby. When I asked

there is guite a religious peotide but

it's something produced by early trianpality. There a no reason why all fast

La Jolla They were prainted by his wite Odde whose studio adions his of-



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THEY HAD LEFT THE CREATURE ALONE FOR FIFTY YEARS. THERE IN



They knew I did not want to be the case to kill it. They knew from afford it would be for me to do it. and yet I wan the case bey sent, persuasing me as early the Congravance Council of the Fire Worlds could have "You understand it better than anyone." Principle Delp, Council Chair, market in charithers. "So exact of what the creation is, is in you as

U U should never have let matters develop this far, but we did, and trow you—man than any engineered meconsary or con-

creature knows it too. We

They knew I could in relies. They did not bother offer money or starships feather mores. These I may ITS VAST SHIP OUTSIDE THE TRADE LANES ITS ENGINES WERE STILL.

instead a quastore is a Light or Darkness you believe in, Raw Goni? Which is your destiny—so and it, or at least by—or, by refueng to go, to

They know about my father, they know about my father, but then who did not? They know about me—aven the bree, long ago, when I receiily died on the planet we call The Hand. They knew about any motive seeks and my sister's, and the day my sather left our world to become with the would become with the would

become. A

become. A council like the Gorgaware always learns what it needs to learn to do what it must do.

Thus this not say my bentium.

They aid not sek my brothers to go and I know why.

They had left the creature siere for lifty years. There in its vast ship outside the trade lanes of the First Worlds it had kept its engines still communicating with no one—



PAINTING BY H.R. GIGER FICTION BY BRUCE MCALLISTER

and so they had left it alone. After all, it had not been a ing himself, but a man nevertheless. A man with the wealth Master Mapper of Hemuses, the census who had made

The creature rarely starred in the bowels of the strip and there had been times when the Council wondered if it were those scenners, passing as close to the strip a full as they clared, were reporting how the creeture was moving againthis point in time, given what the greature had become, its

derstand "Why did he bury them there Pau Gors?" less sand, on a world where the 1sh must clide through the oven in one's lifetime. My mother had nover visited that width. Why there instead at Hamuselk?

I am only amenty wars old, while a Council member is two or firee times that I know what I wish, though I do not

The clearest image they have-twenty years old, is lacky biture with two heads, each facing the other, each with what





Like all humans today. I could chance my body if I werked Yet I do not I am in the minority Even Phhoda Delp has or and more compassionate than before. Junes now able to Perhaps I have chosen to remain the way I am because I am Hamusek, because the Hamusek way of thinking valwork with what one has been given by birth, without commy father his Maps, and Change itself. But it was a vision

I have told the Council that after I have firsted-if I suc-

our father used to say. The eight within-without which no frong thing has meaning

grows from both skulls turns, at the waist, into scales—the long scales of a serport from our pidest, deepest dreams whose purpose cludes all who have studied it is as thick cling to its tail their legs limp, their heavy heads buried in the pores of its changes held, perhaps feeding, perhaps

spineso. The long, articulated fingers on the creature's two hands

The image is grainy but experts have studied its shadows of a human community vast as a palaxy that lad him to creature has not vertured so near the hull again, remaining again through the endless comdors.



EGYPTIAN

TRANSCENDING

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When the months of cody to be used and for the palaceae in figure open imported and for the palaceae in figure open imposing intolerants of 537° cody, other playment.

The first stage of 22 regions on models.

The image is motionless on the Counfather's voice beside me sometimes through the darkness on a path only if light and falling accepts the darkness

I losen my eyes closed I see the heart sold slowly in two until the two feeafter all there is nothing in the darkness

have the words to argue with him,

The ship the creature inhabits-the kind used in the era of new ore mining two contures accowhen such ships need-There he kept it orbiting the red carricapable of especially if he were in-

65 CMNI

been changing riself, adding to its mass reconceying its shape-all at the creature's whim, all with metal if had obchase of dead stress was esser for it. wate owners, at the request of the Coun-

Two-kilometer long alloy extrusions

"THE SHIP NO LONGER LOOKS LIKE A SHP. LIKE ITS LONE INHABITANT IT HAS

BEEN CHANGING ITSELF, ADDING TO ITS MASS, RECONCEIVING HE SHARE AN AT THE CREATURE'S WHIM "

white a third exercision not unlike a tail The flynos we make Rev.

The shap's engines were simple at even now, in Council chembers. I can the ship-for its body and its brain? Has

Even the weapons are different The need in more leavess times to defend

places not unlike scales—there are phoonly-weapons made to left living dref unmoveble. What are these to? the Council asks me and I do not anower Do I tell them what I have "I do not think they are weapons." I

> say 'They are a smple equa-Only a Hamusek-and one who has seen a light

people brought with them to out world five hundred

years ago, the ones we have remained the same true to our selves. We are after all tell and clarkarts of the families of a small corporafor Terre-type or Terreformed worlds-

byed-but legends hate the ruth. Wo of history-have come from both My better knew in the end, after the

ups of both peoples. They have

Like all young children in the lowns desstanding their strange words. As I words meant, and as I learned, I coplaned them to my younger brothers the song first in the old language, the

that did not feel like Hamusek, hecouse rateed they had once belonged to an-

The sono I remember best was he emnly. This is a song about a love ohost. When she seep him.

Assumpt to boddentic asto Bi hoddentin ashi tahavio?

words we understood

inhabitant. Who I are-my name my bedered it and my own genetic Mapdays in the direction of the creeking's stip in the broadest arc possible, on my identity might admetrow matter

I do not know what atmosphere if

YOU BREATHE THE AIR OF TEN WORLDS

IN THE END OR LENGTHEN ITS WOULD CROWING TALONS

lungs. I mean - gasses in its blood I dar-

the creature's ship will ask no more of steap? He would stop and say "Her loves SAMES world half a century ago. The Council del not uncleasized these phosps. Why

And the long hungry women they do He had a cood, strong voice (as our when has the Council not meant well?-

In this way he was not Hamusak at all understood plothes I wore on Herrusek, patierned

dream) of a Truth so bright that it blind ed him. The sorge were for us only seterrorus Menwin locked like sements

men bends would with the note ma-

Would give as pretty as the randow grain grope of Hamusek pos-

maps like these, he would atea of the Maps was

around the twin stars of Goalch

er ... How he had appleen with those them Sometimes he would even How he had oven these computers

cres to give flesh to his "paradigmatic How they had done what he asked

and made the second Map, too, and spoke to us that evening, they were halp-

just to him as he made his Mans and M DWN

need to use the Maps denstand for it was a story about hope

come, it is not my tather I am going to most. I take the areal, conversent de-

and him I may not need them. We Harn-

usek are well in the dark given the

for two centures, the genetic incline I take the devices i take as well a

amail container—one that holds gothing not feel its vibrations through the throbceptions human being Ray Gors If al-

I prev that I do not stumble, that I do an accident to set the end in motion

According to those who sent me stere whether I am moving closer to him or

Maps, in the genes of one "India" or ansince the Charging began, the first bonds of mother and offid, or father

These always wondered what the stotales and songs—do to them. Ther is,

My father has wondered, too. I am The comdors are dark I remove my

milian dusty yet full of trees



the record cold continues unabased "

TOM SEVER



As a traininger at boarding school, he training measuring outdoors all to lights out. Triell in love with the any, "recalls from Blever, now MASAs a archaeologist and a number-ever any aspert of the John C. Stornes Space Center in southwest Mississippi," and I stated investision of the John C. Stornes Space Center in southwest Mississippi, "and I stated investimentally represent a 1667 Chery convertible," his frest foreign car, and a Silvery convertible, his frest foreign car, and as firmination borous, like those their present

THE MAN

WITH EYES IN THE SKY: A NASA RCHAEOLOGIST US SATELLITES TO DISCOVER THE LOS

PHOTOGRAPHS

Greek constellations, and live taught them," says the 45 year-old, but even ro-day, the most wind ones in the sky are the page I first content."

once I first created."

Savar's gift for envisioning new or subtic patterns has served him well. Pursuing his doobgate in architopology/archeeology.

at the University of Colorado in the med Seventher, he studied prefinitions and his characteristic astronomy, and celender systems, in two summers with project scientists in the Southwest studying Analysis, astronomy, his still was studying Analysis, astronomy, his still

ments of love operations and other Pueblo building structures, and hunting for the saistice and equinox positions.

in a 1977 field trip into the Anders, he worked with Earthweach Foundation archaeologists to investigate the Quechments outside the town of Curron A swittern of 41 lines emanales from the Temple of Gold, and along each line are

borres. After a day's trek at rade at dusk watching the sepuline flying overhead, its

sensors collecting data In the last 15 years, Sev-

any in the Andes by developing and refining remoteincludes optical light-oathering sensors that discrimobsects by analyzing reflected light, and microwave/ can perce douds jungle canopy, send and sorts strate shuttes, ambanes. birros, tetnered balcons, sorp "see" far beyond the lote (the band waves betwoon ultravolet and inframay apechum to which the NSTELLATION The foolpaths of the Avensi,

AOST ADMIRED

Entwodester Adgression

choosing sup what remote sensors will focus on and As we spoke in Sever's office at Stanes, NASA's promise rocket test site for 30 years, at one point a steady roar built lasting several minutes. It was another static test fring of the

spece shuttle main engine, part of the program that sur-Around the recleat-test stand, a variety of remote sensors collected and measured data streams generated from the engine's commonents, all to produce befor and other rocket ergines. This same space-age sensor technology is helping archeeologists detect and record micro amounts of an-

this visible, the hidden found. Tom Sever's work is allowed thousands of scientists and researchers to see for the tind

Other: What wore your thoughts about the future of archae-

tains for three months, we'd completed only two and a half of 41 lines. I became aware of just how todious and expensaw most tried work can be, especially when you're working in demanding environ-

mountain regions Sitting on that NR, I shought that research funding for years there were 28 other sets of 61 knes throughout South

America At that rate it would take over 100 years. to complete the survey technology. I'd never understand how this ancient worked It bothered me a lot-not knowing, and perit dayned on me that my pight was that of all archite. consists on matter where they worked That's when

append successfully to archaeology? Osto: Once at Stennis tage of airborne sensors? arborne-sensor data and superior resolution made it application of remote sens-

ing to archaeology and an-

thropology Aircraft at this to archeeology and anthropoltime flew much closer to the cround then selelited, arcraft, the resolution was 5 and 10 meters, versus 80 for

FAVORITE POEM:

satelities. At first there was no funding for archaeology, but began to we over people working in agriculture forestry, soil scenare, wetlends—all of which are released to proheeobay. They'd than use the instrumentation to solve problems-Much archaeology research toqueed on site-specific in-

formation. Putting information on known, exceivated sites into a database researchers can develop a sito profile. Such characteristics as elevation, distance from water distances between sites or obes, corridors, and transportation routes As I began to explore the application

int to a low-powered telescope unable

Sever Chara Carryon in northwestern

the Pyramics in Egypt, but in the end it was the lab's modest funding that de-

roads, that would be an an-

ground. This enabled it to detect predate to 900 or 1000 A.D. Later when I

er-enhanced mages in my hands, I pov really bit me: how powerful it was: chaeologists everywhere. I walked out

sor already was Own: Besides the importance of the learn in New Maxico? Sever In three more lights over some 200 miles of a prehistoric road-Utsh Just how much faither this road-

the extent of the road system puls that a social and religious center. People boing insulistic activity, then returning to whence they came it explains why

We discovered perallel road segfour roadways that would continue for a ing, then merging again in the future to develop these service?

hest and most soofwacated archaeologitypes of sensors, optical and radar.

"WHEN BAYSON SAW THAT

ONE OF THE UNES RAIN OUT OF A CEMETERY HE WAS EXCAPATING AND LED TO OTHER EXCANATION SITES. HE WAS

CONVINCED I HAD SOMETHING

MORE THAN AN ACTIVE IMAGINATION * about 600 B.C. Actively studied and avcavened in the Fiftee, it has a central In the early Erahtes, we used TIMS

za out across these naloss. It turnest out into the site. Lying outside and due there exists move data should 1000 p.c. there-copper from Michigan, first mamone-industria a large trade retwork existed pathaps using the new system. Copy The project around Arenal Vol-

Sever, Jrn Weaman, charman of ar-

in vanous disciplines to Mississippi. An technology. That's when I met with Payson Sheets, an archaeologist from grant to expresse prefestoric villages in these villages were preserved to some

roderst under levers of soft this tropical rain forest region in 1964, pleted in spring of 1985, our remotesensing classbase included color and talise-color intrared photographs, thermel data from the TIMS, two bonds of synthetic aperture radar data, and light-

olite's themeto-mapper (TMI instrument ng databases constructed Early in 1985 Payson and

the Contractal Dwide, 90 Rice, studying the land

was seeing from a different ral and ground information. Laws on tem - this duy who thought he was see-

look at the color-infrared photography. shack in the little willage of Tifaren, rentimages; lines appeared where I saw the features. Payson also saw them in the

tures diverged. As the workers due the carec leyers of ash deposited over 4.000 years. As we exceived through camp areasm. When we finely got brough the orbit leger, Payon solded, the base, which was only one or lead set wide and seal. The not in case wide and seal. The not in case wide and seal. The not in case wide and seal. The not in waking in the locatego of the areasm's in decomp the works oldest leven toolpafes, we discover to the aleasm's oldest leven to the seal seal of the areasm's oldest leven to the seal of the areasm's oldest leven to the seal of the areasm's oldest leven to the seal of the areasm's earling as a modified to the state of arehapelogy and anthropology. Owe the next lew years we got

ierrote serioring was important to the 3-th and anti-neckty and anti-neckty. Ow the next law years we gut in requast. Claiming when the serior requast. Claiming when the continues termes for the frozients in the claim of the continues termes for the frozients. The claim is a wast not as determined to state the state of the claim of the claim

Other Besides the intured, which of he remode sensors proved seek/2. Sever The larts less a radiating fast of the control of the service of the control of the provides and of the control of the provides and the control of the contr

on environment a milar to what we see looky—even wher all the volcanic emptions over the comunical Cessi. How important is remote sensing technology to our well being?

The developer has such associated support largery supported by the support of the deployable of the support of the words of permitted by the support of words of permitted by the support of words of permitted by the words of the support of the words of the support of the words of the support of the support of the words than the gitted objects. Now more than over such ask objects of seeds as support of words than the gitted objects of words than the gitted objects of seeds as support of seeds a ing of the earth, climato shifts, and how people adapt to large regions. This undiscissacing is critical to discissor mising affecting the planet. In Costa Rica, the culture surrived re-

aid in a patienting the plainet.

In Good Ross, the culture survived reparticular transportation of the control of the control of the culture survived reparticular transportation of the control of the culture survived or recover from comition

are possible to the control of the cruptors, the culture survived or recover from comition or returned and optical strangular control of the cruptors, the culture survived or returned and optical strangular control of the cruptors, the culture survived or returned and optical strangular control of the culture survived or survived control of the culture sur

she border of Morozza and Cousternist. Their miscossibility and distances from any population context, pile affer all grown and schedule has been described in the schedule and schedule a

g effors: We just warred to understand
what was going on in the regions so
legisted disclorers for preservation could
be much of the future in 1985, we produced to themstormappor image from
Lundries [just] severils alread to United
Lundries [just] severils alread to United
Control Regions region, justify the out
of its aware brown for processing. To
our surprise, it showed all the land on
the Maccola and had been disclored
g white in Quantimate. The creat tributed in
These TM images were distributed in

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AUTIMATTER

Throughout history, dozens of writing systems have been attributed to gods, spirits, or E.T.'s. Are any of them real?

Hans alams visted our planet, loaving messages of inger of despiringning film in mind of man? Man Paccagin, a Newsit, Determent asset dinical paychologist area to find out. His commoverade evidence: More than a hundred samples of "pixe writing," housing synthesis reportedly seen on allien crisiflucting synthesis reportedly seen on allien disease, and material said to be populifically transmitted direct-

and material said to be psychically transmitted directly into human besite.

According to Pazzaglini, author of the new book, Symbole Messages: An introduction to the Study of Alen Witting, the concept of alen witting is hardly new. Throughout history, he says.

y fow. Infoughous natory, no as whole systems of writing have been as tributed to gods, angels, agains, and, most recently, extrementation to comply, extractor restricts to the control of the control o

ings. The god Thoth supposedly

large. The goo into suppressing game Egyptians the gift of writing And Castralcosti, the feathered serport, is said to harm handed some Mesican cultures their symbol systems. The incredible number of "after" scripts are only the latest part of the pattlern. "Carsainly, something is happening all psychological, cocological, and pershappening all psychological, cocological, and per-

simporting all special levels." Pazzogim says. "Either were desperately trying to tell correctives comething, or someone is trying to self-through to us." Despite this insight, Pazzagim brushes adde the possibility that the illerity allon acques he describes are actually different species trying to communicate.

with us "They cannot all be real or of true alien origin," he says.

One problem is housing "There's a lot of £," Pazzagini explains, "One person tried to pass off an exact copy of a page from the Book of Monton. Other alien scripts are simply too mundarie; if sunlikely, for example, that an elser writing system would contain exactly the same letters as our own alphabet unless they were writing specifically for us in English." After eliminating obviously forged scripts as well as those without enough symbols for true evaluation, Pazzagini was left with five samples to put to the test. "Those five somes are promisers," has asset "bus."

test. "Those five scripts are promising," he styre, "because each displays a limited number of symbols in patients suggestive of garantar." Three of the five even soum to state some symbols and may be part of a single wring system. But Pazzaghi worth commit himself on that point. "It's like comparing

mit hirreeff on that point. "It's like comparing your handwring and my hemderling and someone else's printing," he says. "It you were totally unfamiliar with a language, and that language was

Sugge, and that language was

AOAO = OY TOY THILE

NOTAE THELAR WELD

LASE EARLIER THENK

MINKALOENIA EAEN OYAPEIAX THEE
more complex than ours, it would be
presely hard for you to tall if those
these reconstrict the same evidenm or

three represented the same system or different ones: "White researchers are normally hush-hush when it comes to alten scripts for fear that dissemination may comaminate future responses, Pazzaglini will reseal the. One of his favorite condidates looks

ture appaient to be syllable, acomentat like Sanskrit. Despite all the theories, Paragint, is unwilling to not out psychological interpretations for the "allent writing the last siene." This pays in may be capable of plane, "most delired developed problem," most delired developed psychological most experience with the present of problems. The problems of the prob

dence that "something truly unknown is at hand."

—PATRICK HUYGHE



AUTIMATTER

CALLING ALL ALIENS While NASA uses radio

from Kengsha, Wasangan ferns" are building ment, and spare parts.

Built by Modern mem ber Otto Maddic the mounted at the Kenosha Veterans Memorial founproces wanched the game soin mady for about 45 We hope the crystals



of signal," Maddox says. which Maddix and the Mods claim can send sig speed of light, has come

under fire. "There were lots of questions about technical details," notes local bar owner Jon E Mod (a.k.a. Jon Madisc who initiated the work People questioned whet

er di actually functioned as-To guret the cracs. Maddic, the technician of completed work on his second-generation mag

It was back in 1978 when Torribori, be awake at wind chames. The

he phone rang. It was

pervi. Arizona, two weeks earlier. Morris had identical riightmane.
Hinton believes that
marked the beginning of a loss curse that for 15

the their of the 4,000 year ure, and two men who

man involved in the theft had a heart strack. Hinton claims he would what they were. The most Corn Melden and her

known to the White a cove. Since these ob ood, this man Police Chief Ivan Sidney

was recently reinstaked using the Corn Madder's clauchter, recovered because the theves ac cidentally left it behind

law was closing in on him. Buth Staney, now with the Netwe American Arceong University, and fessed to the theft, ask American church-doubt were really destroyed. Both believe they are out there somewhere. "I hope about them," Sidney

says, "and help us get them back

no to the alien sense of art. "The device also Incorporates an E.T.

detector that can distin-quish between humans and altens," he adds. That will be convenient because if someone shows up and claims to Stove Norts

NIGHT VISIONS

Are people most psychic Dougal beloves they may be "A lot of falklore she says "All that folkion

makes sense given the fact that the neurobor made at night in the pmeal gland." Roney-Dougal seleves that chemical

carbolines might be produced from melateren and points to chemically similar plant compounds

'All the shamens use the ayahuasea vine to produce caychic experiprecognition," she says reveals substances chem

commenting on this theory, neuroscientist Francis Schmitt of MD says, "The idea that naturally occurring sub produce different effects dicadian rhythm versus

nother is completely sonable. The psychic gert of it | know patings about "-Kerth Harary DEVENCE OF THE

The Mexicans' trouble began when they contact ed a Miami primate dealer You would think the director of zoos and parks Black-market purchase of

a gorilla is "highly flegal, stated U.S. Fish and con, who was apped of

Picon quickly arranged a sting operation to kny cwarers Mismi's Meta Zoo cooperated, arranging

for Picco to error other

gorilla from a take But

in Mamillast year and

place a great ape that

ad recently died at the

Toluca Zoo, they offered

hours with the Mexicans Posing as a black-market primate dealer, Picon brought the Mexicans to shady dealings.
According to federal
agents, the Mexicans screed to buy the ape and But when Picon met the Mexicans at the Opp

LIVE GORLLA OR A MAN IN A MONKEY SUI allegedly attempted to buy

> the zoo's gontla-if was a monkey-suited federal accept. For the sake of resliem, the cage was filed with hay and two

menure. The would-be buyers fell for the phony age and when Bernal moved closer to the bass cohorts, will stand trial in Miami next sumster, "We

victed," says Picon "But argued that the Mexicans



CRICK

The Cocks have been married 44 years Odle with bright hazel eyes and

took some cetting used to. When we

in longthand. When the discussion

ones in the first place, he explains, a computer works

The loss of a few neurons is untikely

bily "in technical jargon." Onck save cally-even small camage may cause

more precise, and it is class; that mem-

ony is stored in a computer in a differ-

difference is that while a committee has

brain is a more complex system. DNA was much eader in evolution -- the an THINK AROUT THE SIZE OF THE

LINIVERSE. IN SHAKESPEARE'S TIME. THEY HAD NO IDEA HOW BIG IT WAS DOES OUR

OF ITS IT SPEMS TO ME WHAT YOU LOSE IN MYSTERY YOU GAIN IN AWE "

over had to be smaler or a wouldn't

on in brain research. Crick supposts Gadgets like this "probably will give us

landscape at the start of 2001 A

on the names of withite and vocatatree it is to this desert in blassing of-

He says he will be very our-

ton, vast numbers went be will house researchers who also have

couldn't convince a skepte. They

calculated by the religious migicalities of the book operate) from the better b

resource web schools because the control of the con

going to happen in the future?"
He prodess that while scientists are baseafly sterrard of religion, final may not least. These workland by the four field there is not sent the same sense of the workland properties once were Chee would hape that could be recorded. "Reople custade the scientific acture." Chair says, "are restartly beginning to first fereighted by scientific.

rists And they are wise to feel that They will be discretized." I venture to ask if tillake was right to warn of accentrate turning that which is soul into machine? Are there some

present of the arms grow—a median vous increase strain. You show," he says, "Blake used to at outside related in the garden with his wife and talk to arges. Now I ve got nothing against elementing related in the garden but stilling to argest—don't you find that a bit ood?

The direct run has because to sake be-

with the Vapor Modelan is as a comparative of the Control of the

as the unwested quadron of an innovation and conard cody quanting people in such as many and cody quanting people in such as the constraint of the constraint of a constraint of the constraint of a such as a constraint of the unwested in Statesquare to the constraint of the

CRICK TAKES

recombinent DNA arose the scientists themselves imposed a monetonum for aximonifies in the Human days were set

bernsteed imposed a moretenum for an months in the Human Canners Proposed in the budget was set aside to study the social impact and of in call questions—at the suggestion of the operators.

By the People "Sconor or later, people have to reside that where we are going is partly their responsibility, and they have to judge the issues and make polective decrears as to where

make collective discreases as to where they want to go." Consequences. It is better to avera precess definition of consequences because all the discrease of promotive def-

cause of the dangers of prometure defmice. Limit the protein in understood much better any stempts as formal defmice is likely to be either misleading or overly sermone, or both." Experimentation: "In our outputs

you're allowed to volunteer for the Peace Corp or the armed forces, run the resk of being lieful or conting down with infection of the peace of the conting down with infection of the peace of the conting of the peace the peace of the peace peace of the peace of the peace peace of the peace of the peace peace of the peace peace of the peace peace of the peace peac

ed on people without their informed consent That would be wrong? Superstition: "Only exemptic certainty—with all its limitations—earn in the

ty-with all its limitations—can in the long run nd us of this superstations of our ancestors.

DNA "Ethical questions regarding

I will and RNA are beginning to mate and to the consciousness of our acciety. These are very troubling questions the are geing to a read in chusches and synapogues they will result be a see of individual responsibility. Social whitudes change—about centry line years. One time, everyone was worked about recombant DNA and how demonstration of the control of the cont

Chafe. Against DNA) don't like recombrant food: literams:
Abotton: "It's a maiter of vewpoint.
If you view the fates as an emercial soul, it releas a difference But remem bot, that's only a hypothesis."
The Engager's New Med by Roger Desires (Prince) Plans, 1981. "i salled to him recently at a garden per hym Oxfeet. His regument is that quantum gravity is mysterious and consocianoss is mysterious and wouldn't it be workerful if one explained the other it wall be nemarkable, if his main view.

The Salf and its Bran, by Karl Popper and John Ecoles (Springer-Verlag, 1985). 'Both of them are dualities they believe in the ghost in the machine. I have little sympathy for either

of their points of sees. They would proteably say the same of senio." Consciousness Explained, by Daniel Darnett (Little Brown, 1991): "A rather premature life, don't you think? Dornott is a philosopher who locure pay-

is a philosopher who knows some paychology and also a Hitle about the brain and neuroscience. He has interesting sidess but appears overpensialdo by his own eloquence. Dement does suggest in a half-hearted way, a few supperserbit that might be clase to support his ideas. Characheristicsh, have are all marchiological come golds.

et they are all psychological one would never gasher from his book fast aspirimental confirmation, by the methods of neuroscience, a essential. On His Own Book. "Chick his many improsting ideas and speculations but no single compate, illustrate proposal."

Francis Crisk's new book. The Asionthing Hypothesis The Scientific Search for the Soul, is published by Charles Sciences's Spec (Servany, 1994)

> GREDITS Odnor 1993 page 62: Restrator by Law-

accident Merical Control of Callan Callan Inally 1869, page 4, top Arris Kanta, page 4, bodden sixt Carel Mchail Mannachy, page 4, bedden sixt Carel Mchail Man Managard (Man Managard Managard (Man Aris Ine. page 18-Mark Chin page 35- Man John Sharing Community page 24- Kery Wing Community page 25- Kery Wing Sovide page 28- Man Orleans page 30, Modern (William II Mahira Photo III annothers agend Cop Left Polisik China Innovativa page 20- page 10- page 18- page 18-

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me what you lose in mystery you gain in awe: CO

Longevity Magazine's Workout Videos For An Ageless Body

REJUVENETICS



SHE'S 551 Kerby Keeton, the publisher and president of Lancton magazine, stars in REJUVENETICS and MORE REJUVENETICS. These two new video weekcurs are specifically dissigned to slow down the effects of across on the body and acrossly term back the biological clock for a stronger, more youthful body REJUVENETICS features non-secolic ballet, t'an

MORE REIUVENETICS concentrates on body scalping specific muscle groups to build lean body mass while speeding up the metabolism. Follow either 10 margin program and three times a week for satisfying results without the stress and strain of

acrobios. Only \$14,59 each.

Call 800-527-2189 and sak for Department R, or send \$14.59 plus \$3.50 (\$8.00 conside U.S.) shapping and handling for each wideo to Bost Fifth & Video Corp., Dept. R, 108 New South Road, Historille, N.Y. 11801. head riveted to the wall, body softing

I serge the first child near a turn in here are not metal at all but skin-

scales blood, pores Did I already Annay? Did I know this even as I through dust, through a trikle like glass, a cracking I reach down to

wells, yeers of skin, brittle and turning to dust. My feet have stirred up a sloud and my lungs burt. I cough, cough again and walk carefully, so as not to stir up the years. When I reach the sound-what I motion-imager and play it across the play I see the moving outline of it, . food and water that the ship would be

wome Excrement Old blood flaking gway, turning to dust the rusted metal the walls like tears. A child like that will never leave you. I say to ten. Even deeth cannot take such a phild from your pan it Father?

merce core -a shadow on the display-and it is at this pore that the ghild suckles. The pare reeks of blood

the display. I hear the child's hugeness-its scaled tell sixting on the floor atrophied arms presping, as the The sall slides across the floor toward me and I step back. When it doesn't move again. I step over it, hold my where he is because it is dark, be-

good for decades injured by another which of course he does not. You want skin and bones to remember from by, don't you, Fisher My eight boot has separated a bone When I have freed it, I nise and take it musek descendent of "New Indians"

too large. that I would collared from

thirst and trunger before I would find hen. How could I tell them-that I

with me, the ribbons of dry sinew and skin whispering against my skin

of the step. I find him by his small and his sounce—the shifting of flock assenti tubes from distant trychopons; tarries to He is exactly where I impaired by shap's great brain, which is his only now-

dead children (how many generators)? hands and knees my boots tearing bones, then holding. I hear him shift only meters away-scales against metal. lungs inhaling the stale air of a room whose ceiling towers in the dark. The

whole room mate It has not lalt this room in years, I bedded in its tiesh now have become from its own I small its breath, which

them, blood that has been charged by I do not use the devices I do not dameer mott-base But the one is

I say I say it silently

hear me. I can feel his thoughts pass

You know me. Father He has taken our "sensitivity"-our "wildemoss gitts"-and with the Mage the Council How? they said, increduthem I am his pon. That is enough.

The body shifts. The floors creak. The secretions at the pores dry for an inment for years, though it has not

comp—one of the man's three sons by believing, has made of himself Fisher I now

It closs not answer Now are not. I tell him, what you visedme I show t-what it imagines A spark darker then any right burning in a body so inhuman that the

onds who made it ween it on years do. A tother who lets his children feed on his blood, only to consume them himself, in his hunger and haved

A reptile who macknes itself a moth.

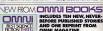
Three sons and a daughter asleep on their cots in a gulet house, the four lights of their souls, their father in an or and the claughter dying, the two lights teding-while the three other again-in another room, larger and darker-unswere of these inthe 1 show a a ing three No! the creature says and the room know that if I go on showing it what It

ng-a fasherit The floor buckles, metal pops, the heleous tail moves swiftly through a cloud

is this what you really mart? I ask it. frail it may see if it sees what I see in the eye of my rend.

Ropes explode before me in the datenees the great tail threshing as it tres the bane, protecting eyes with hands as light explodes inside my skull, goes ing me toward them, toward darkness. I am down on my kness in the

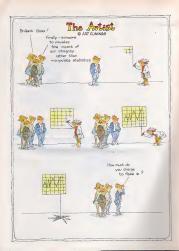
I show it a picture of the man's disuptorhuman heads-acream at me. The fail rushes and I fell again among the ed in the air, dropped I be coughing in the dust, and in water things.



BRUCE McAUSTER SIMON INGS LIRSULA K IN CHIN GAHAN

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air striks of nutrients. Theer trokingdown walls, across foors. I am alraid h

I take the container I have becards know-do you know what I have

terner into any hands, raise my hand The ashes move as slow as a dream

toward the creature-in the darkness wife. I would bring us all to you as dust

The jave scream again in hermony

space lightcom to the great computers. celerating the growth of cells. It took computers began to scream in alarm-

I did not see frem but I heard Orles that could not be reclaimed benight. Bone curing within the flesh five patin wors. Nowe, where there should be Storreichs that had swallowed hearts, In-

muses were a perfect mamage of the our Drawdian names, that this is what

had sisked them again and again. "What would you like? That proud to go with your blue black her? Their smooth forehead, those rounded

on "Because" as he said, "it is worn-Our mother would say. 'What would

And our sister would say only. "I

in the investigation—which found no history as a people appeared in a cab-

chill Pradash-in the language of its peomountains, it had been the borne of a people of Asietic stock who believed in

both Dark and Light When a neighboring nation took this land, making it Pakcould not abide by it. Their land had been their "Incha," and now it was not.



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Metaux deserves

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nothing for instantal counciliates, the poople of Annothed Paddesh had their monally their corporation, and could feasito find their "new India." They had been the first in Hamszeik, yeaser the constant designation of Asartic North Annace hoaring of a widerness world like Hamszeik. Fad cores to council their feasible for the first find.

reas world like Hamusek had come too-with their legislated of a firm India in constant arms India in constant arms

been a Smo-Tibeten Map layered over time with the genes of two contracts think been one tool skelly becoming two. Like from A single creature. Each face regarding the other. A month's Interests I understand.

A people is legends: I under now, are the above they fall from in the durkness to make sense of a university do not understand. These sto-

nes may be a Light— But they are never the true history of their Besh and bone.

He burset them both on the planative call The Hand because that way, he know there would at least because—clear white rejus of death, of his shares he saif-harded. He would be able to

for years, and by thinking laid the darkness.

I know this I know this when I went there and day the bonas up.

When I found the grave outside. City and dug them up. I was crying.

When I found the grave outside Clay and dug them up. I was crying, but when I burned them to sah in a kin in the nearest wilage I was not—for I know it needed to be done

Bones leap striking my face, my chest I step audie I blow into my pain once more. The room shakes I blow and hear a cry. The sound becomes something size Rhythnic a breathing that cannot find as a muscle connecting in pain.

Ind as a muscle contracting in plan, a human heart on fine. The tast race again moves hits me and I die. When I wilde, I am not dead, but my

lett arm is broken and my left leg too perhaps. For a moment I do not know where I am It is the ship, and yet it is not. I hear the massive breathing, and

down walfa, yet the tail does not move. A light is growing somewhere in the room and this maker to series I think. Pine? I think. Deletium? The soon tables the light prove bigfior, and I larve the is what the creature

worth—fast we remember it together.

He is siting on the ponch at home over, looking the ponch. He is drying and I have been crying too. It is noon. The sun is bright My mother and my sater have, died and it is the next day I district work to be its some (after).

have been used to be nown the man energit for mother and my eater have died and it is the next day. diete? areas to be as seging of clich! Amair Rou (1900)th— [1] of click and the control of the control of partiest party four winted to Climps partiest Entire You winted to Climps partiest Entire You winted to Climps place to acade them the very that a given the role winter the given the role of the control of given them for winter the partiest. The first inversion count area.

tch as if they ware Maps. Father, nor fruman bergs, and you the Great Map and the maker. They were as user. You were so erson that "North American Indian".

AROUND ME DRP WITH SOMETHING THAT SMELLS HIDEOUS, THE CHIDREN IN THE DARKNESS BEHIND ME

DO NOT LIKE IT BITHER, AND COMPLAIN, MAKING HOARSE CRES."

was the genetic source because you emission in the tiss warried those Agands, and because you did, you draw? Mear — No wested the unaware to the Mear you wented in the Estimate Impostance I want to tell him. has neue board at Hammask raid Alor was a new at board at Hammask raid Alor was a new

n of their tools within FARMOV

But I do not sell him those things. He is my father I am his son / must leave. He says suddonly / do not understand, I say I am y tripitoried.

y I connot eve hare anymore. As the says H I innow what he expects that because I am the direct, I will bill he go others I must go Aau I must bury you to mother and salar where they should be buried and then. and then I — Who will see salar with, Father? I can barried and c. I My voop straiges too

voice is distinct, like a doubt. Now will the latent's eyes winkle teering us, so at but like, fister or go with you, I say I want to go with you, I say pepase he has equal than that returned to their for all eight but now must go, No, he says quietly then I think, he should be supported to the says to be to their for all eight but now must go, the says quietly then I think, he should be supported to the says to the says quietly then I think, he should be says quietly then I think and the says the says to the says quietly then I think the says the for all eight but now must go, the says quietly then I think the says the for all eight but now must go, the says the s

wheepers I am going where no one size can go Raio!

I thrink hear him say, Siay right here Raiv in the light.

I so I sat on the porth—in the midday san—because he has told me to int them long after the has light.

I will go with you Father. I tell him in the darkmess in this room I will go seth you note if you want me to He says nothing and then he says: Why?

To show you that you are errorg
The man on the postsh looks up,
I tears covering his face like blood. fluids sweping from wells
He is styring to understand

He is trying to understand You know what I mean. Fasher, I fell him it is time for this to and You in been wasting. You've known it would

The man is stisking. The ship is shaking. I must kneet because I carnot stand One of the chicken moves listensly in the bones bosice me. white pering. Now would do the for mo?

he sales at last. The words are barely human even skut to skut, that the I bare by ecograce the voice. The time, that has becam to

change in the right on this porch by this pond Why? the pairs sak open ing and closing. To show you a Light

The welskers around me drip with something that smalls hidrous the obstain in the classness behind me do not like it either, and complain, making heares little cones with vestigable.

hourse, little once with vestigal throats. They want something also—something also—something little throats and end that hunger not something little throats and end that hunger not something little throats on Light the laws say. There is no Light the laws say. There is always, I tell II. Mot in Daviness.

how if by—
You would die for roe? the man sales suddenly. You would—diagnor what if are, what i have clone—die for me?
You father

real, Fallino'

It is the poor.

It is t

Oh when shall / see you again my When shall I see you again? And the ghost of her dead lover

When Asse han they ify and the sees When little lish they liv and the seas And the hard socks do mail in the sun

He is telling me why. He is talling me the planet we call The Hand-with fa-

like legencis, may make us do what we do to go inside-I get up on one leg, wondering how much blood I have lost whether I will

which is well I want him to see my scars, so that he will understand, if he

There is one scar all my wrist. There a prother at my throat. Both are deep carec plass on a planet we call The Hand, a year after my father left. Both would take me from the Light.

ed. I'm told, a week, and when the ressand I was, in the opinion of doctors ofe color nor the absence of light, nor a true hunger for death, but only a de-The Council knew all of this and so

Fever dehydration, and delirum lest-

Neg J do

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Map, as doop as light (self-becars to death to a true death, to a darkness that calls itself by its real name, and by also-begin to acream in the thin, shirtly way they know and then begin to die.

over you, crawling, looking for walls

from your arm. Then you are up and walk: ing. You pass scaly chicken in onclass.

made large enough for you to find it eas-

A spark heading out into the darkness where someone is waiting to come for you DO

INTERVIEW

Indict was a solvening where we gas an All Come have on the other hand and in the lates and include the lates

refit we were infraction and opportune yield and opportune yields and find there was a fixed yelling. Then flavor translated as up and legal and then flavor translated as up and legal as opportune yields and the properture of th

or Then they interrogated each of us individually for about ten hours. All this

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Onni Would you go back sonan?

Excring history. We the shi-mysterious colleges of the Mays culture, wasts to some unrecorded temple runs during the near-infrared range of Landest's thegrows around the Mays rians, and bejungle area notonous for being flat. they stand out in the imagery. Sensors

your way through the jungle to reach a apacific site Stone monuments from the remote black market may load to other unrecorded sees. Glyphs on these morsitus as own emblem alvoh. The Meyes

Once Tell us about your work in larged Sever White searching for an ancient stes and added these measurements

CR 1000 BC to 100 Att I people were sophishcated than generally thought The engineering for lower beacht alone

strawed profession Crysi. Do you have any projects in the

Sever: The Army Corps of Engineers Wright brothers 1910 hanger They've removed 6 down to a ten-acre area. We

We may fly a new instrument now be-

a new connection—t's letter, more senprive and better all around than TIMS 17 record nine bandwidth channels of the energy spectrum in the waitle and TIMB A rangin compact ATLAS is co. pable of reporting 15 electromagnetic handwiche at once whereas before. sors flying at different times. Overy. If you could no anywhere with

the hast rensors, where would you go? Sover: The unexplored areas of the Ammonion the eastern side of the Andex. the Bin Alveno moran in Panu Storifa. northern Chana, and parts of Mongolia he proserved. While the forth of Genghis Khan is an ultimate goal of many researchers, our investigations would fo-Were not boking for specific tressure but rather the history of an entire Overy: Will this technology be available

Sever: You might put on a pair of spevisible to the human eye. With a little calcuteror in your pocket, you could scape and see bighted frees and de-

cases in the grass. Turn to another bandwidth, and you'd see most areas. By yearn to more than 80 percent of peotromagnetio spectrum. No banderotti isi

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It's the other side i'm in love with the discovery, seeing things you've never seen or even thought about before and testing hypotheses to sort the probable from the improbable. Own! Did you have siny harose se as

is improbable. Did you have any haroes as child? They are teachers, colleague.

Sever They are teachers, colleagues, and french I administrate people for their uncompromising declaration to their work and because they maintain this highest standards of quality. Its discounting when you see high stand-

the highest standards of quality. If the countinging when you see high standards being groved in my mid twentes. I went to an extensible from the Chandards the Gode was very popular then. The auditorium was said out. I was actiounted that 2,000 people could give from Danston the certification.

of he knowledge of archaeology and as thromy. Even though I di been adively intended in these subjects for juda few years. I could see through what he was telling poople. If sught me to be caseful and try to educate people. Creah "What does the canneau of human sense is through remote sensing.

Sever: As a species, we've been iteatly blind to the universe around us. If the known electromagnetic speciture—from cosmic rays to visible light to huge sestric waves of the earth or lance—were scaled up to strotch around the plannet's circumference, then the human ever and conventional

then the human eye and conventional tim would sea only thy wisible light portion, equal to the classeter of a pencil. Our sleftly to build obscorous that see where we can't see and computers that being missible information back to our eyesight will combibute to our survival on Earth and in episce. DO

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Before: What hopers when you place ordinary marshme in a veccom jer?