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DEPARTMENTS First Whet

By David Hess fasoriation with syborgs and the oldest

12 Wheels

car that gets 150 miss a gallon, it's not 14

By Tim Redmond and

Kid Stuff By Pater Callahor



is consciousness a mask-as Rob Davis fine cover An aspect of our physical bodies, or something is there such a thing as the roul-or not? These brink of being enewered. That's why we have chosen photo credits page 1101

Animels

By Peter Callahan

Political Science Virtual reality

Books

By Robert K. J. Keheffer last touch with spirituality By Patricia Barnes-Syemey

take they telescopes to

Ry James A. M. Minny Let's out NASA out to space agency CAN SEEN (648-011) is published morehy or the United States and Carried by Carri Public states in announced Ltd. 1966. Beneding New New No. 1922-1956. Described in paying paying a law folk. (If not in addition in all profits in DCCN-05-TRE Serial addition allegation from 1966. The Section of Section 1966. In Section 1965. If the Section 1965

33 Continuum

Chuy, Johnny, how cold is it?, forest animals plant these by learning their lunch and more 40 Notes from the New Land

At the Manca Instatus participants go on an estimated by sound patterns—both into and beyond fremarkes.

The Consciousness
Wars
By Robert K. J. Krihefer

By Robert K. J. Killheffer.
The world's preemeant obrischusiness researchers call each other names, ideals auch other names, and argue nestedy about the nature.

Finding God in the Three-Pound Universe: The Neuroscience

The Neuroscience of Transcendence By David Porush A few researchers and scientists are seeking to learn how and where—the

scientists are seeking to learn how— and where—the brain experiences religious existing. The ensuing continuersy challenges concepts of religion and





Fiction: Metiato in Onyx By Harian Bhaon

By Harlan Ellson

flou've never nead—and Harlan Ellson has never writenanything like that atory. The longuat people
in Crowth flatory, it is also one of the most unusual. A
live story, a crime story is coence-factor
story, this nevertie—flution's first in 15 years!—a state.

deeply engaged with our topic question, the nature of the sout A massisspece, by one of the major waters of our firms, dr. say, time, working at absorutely the top of the form Chronic 151 Hard to believe that a decade and a half has passed since Bob Guocone and

has passed since Bob Guodone and Kathy Keston launched a magazine devoted to the future. Our devotion remains unchanged bring you the best in speculation speculative ficiel and at openie writing and outside ploration. Thanks for joining us in our britishay most

Spirit Exercises By Koth Harary an you remember to

last time you stopped to consider the meaning of your sense of soll-awareness, we present those seven.

Interview
By Diazra Connora
Neuroscentes: Michae
Gazzanga's
groundbreaking studies

apit pran
patents rispined infriguri
new theories
of brain architecture
113
Antimatter
The fall of communism

makes Russis safe for UFOlogy something hums smoying tune out West, and more. 143

By Soot Morris Orner turns 15 a very auspicious numbs 144 Last Word

A few intropid researchers disposer that smart chaps have some drawbacks Joe us for a look at this new and groundbreaking

this new and groundbreaking research, sure to prompt excitames and outrage

FIRST WORD

WHEN WE'RE ALL CYBORGS Second thoughts on the machine in your future

By David Hess

viboras have yet to become a reality, but ours ace in which we spend a large part of our day connected to and work out in brain gyms. wombs may make it possible to may end the curse of Adam rewite expliction by decretion to shuffly off their mortel coils and

and sci-fi rovels, we witness a popular culture that is fascinat pending new self and society.

growing number of "cyborg arrivocause anthropology examines all er-gatherers to data surfers-we tend to take a broader perspec-

As a outural anthropologist. are more old in the new than do tuel realty, for example, strikes riques may have changed, but Yet I watch with some sleep-

Likewse, it may be true that ic remarce and medical prosthermake our selves, but the idea of creative identity reconstruction is Masks, lp plags, and body part make the will through physical complicated but are our rituals

machine may not be as new up to as only another variant on the portions with natural toleres such as

symbol of a changing world. For old Puntan isremad when they s-

White European few of being damly different. Asign armice, native warners ages, monsters from piety's continued inability to deal with physical difference. Many or the past-Cold Wir world, the puban E.T. rather than feer invasion by green monsters. But machines are different They're a plausible Other, perhaps all the more tright-

the Other as in Terminator 2 when both good and bad ovbled by the racist-cybenst?more intinguing the poseibility suggested in Blade Runner where ovwonder if it implies replaying the

Carylist Browns and Julet DO



COMMUNICATIONS

Malleable morals, gold mirles and Golden Fleece. and a salute to of England

Doornsday Debunied Three Modern Galleon, June 1993) for

who is rational not proudy or ambracus. tion. I'm certainly not an expert on AES as many people claim to be inthe discree, but I'm well supercriped

Blood Yo Woole

fine (Earth July 1983), but to assume that technologies will not easy to use the died fifty years aco, petroleum was conmost people considered nuclear waste sites could very well become ness technology to make the future tru-

DOE project developed (sadiv) too late for a William Prosmire Golden speare died. His tambstone bears the

chard but we get the idea. If the mescleased heave " we would have under-Robert S. Stone

Ractor Factor Mr. Sudin opmently poets out in "Fa June 1990) that reptor clearlys are an un-

study ated in his essey did not how knowledge, no bald eagle death or in

Washington DC

Fraignat Dysonwerd I don't think I have over anjoyed a sto

Ms Werle F Ritte

Juneau AK DO Got samething to you but no time to

write? Cell (500) 903-8683 evt 70103. Your commercs will be recorded and may access in an upportmust be see 16 or older. Touchtone phones only. Sponsored by Dum Entertument P.O. Box 100

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MIND

BACTERIAL CONSCIOUSNESS: Why spirochetes think as we do By Anthony Liversidon

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Migual do Limemure y
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bloom." "Man by the very last
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asks But clearly, consciousness is a thorny question for scientists. Lynn Marigula, professor of biology at the University of Massachusetts at Amherst, is a Heliony student of microscopic paints.

respiration, and finary other things including not load, the wonders of backwall life. "It consciourness is as my collegue Peter Fairly Appert once contig ability to make remember recid, and use representations of separation from the feet of the service of the

eminenties and recall companies. Social organization companies for a properties of the properties properties of all of the thirty will be appeared with whom we provide that the few we enjoy (Morabos respond principally to enjoyed, methods, accide, supper, softs light of chemicals; expectedly were Production and other bacteries once in principal and other bacteries properties of the properties of the properties properties of the properties of the properties properties of the properties of the properties properties properties of the properties propert

When Marguis presented her were two years ago at the American Association for the Advancement of Science the audience are seemed skiptical. One than punified out a bail one bottoing against the ceiling "tesponding to gravily in this consciousness" he chal-

alive Margille pointed out "Tonson processes are satisficated with live beings" (She was an noyed when Science reagstore wongly impried that she had agued that the balloon was conscious though not alive) Interestingly, Margille has ported out that the mammalain broan and out that the mammalain broan

ad out that the mammalain brain shows signs of its origin as a mass of instrobes all trying to what they once did in their procedulates. The firms of investment may be a modern equivalent may be a modern equivalent of their ettors to own, and out learning may be realized to their growth, she easy.

Of course, "backend where least is most initiated their that of

a human med. "she saya." I doort water to seem samplemmede! Norwinklass. Margura threat all organizers, socially instruction organizers, socially instruction, and the sample seem of consequences. "The watched consecutions of consequences about a seem of consequences and consequences are seem of consequences. The consequences are seem of consequences are seem of consequences are seem of consequences and consequences are seem of consequences.

Do you believe all living himselve consciousness? What does consistence with does consistence main to you? Call (803) 935-958. Your weeks will be record added may appear in a four seaso. Calls are 55° per minule You must be age 18° or or or your to be agreed to your season of the port of the per per per season of the per season of per season

WHEELS

THE LOVINS SUPERCAR

Much more like a computer with wheels than a car with a chip

By Smson L. Garfinkel

cars represent retrements dyearchight technology. They're the and products of a highly tuned process of deagaing midd etemorp, peating, assembling, and delivering that may be as outwarded and obsoiets as the internal combustion ergine that pushes them down the road. Rather than looking for

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mass, Cohrando and one of the leading energy their-ass of our time. The Lovins supercar of the near thane would be nothing more than an aggressive application of nearly water watershee technology now available to reduce weight or improve difficiency for early water with the control of the control of the control of the control of the control while a supercar of the control of the control while a supercar of the control of the control while a supercar of the control of the cont

would have a tray gaseline or alinstrute-field-powered origin, it would use that engine to ginstide electricity to change an onbrand battley. The engine would are at its most efficient agued to change the battley and then that off. The wheat thermassive would be powered by west-hadlivatione has motions, which would obtable as regenerative brailes on the control of the would obtable as regenerative brailes on the control of the would necturing the battley rather than than the case monitorium.

from high-tech composites—carbon fiber, Keviar, and glasses Such a body would cut the car a

weight by du is percent who while body's composities contactstandard more than steel, the hnal cir need not. That is because composities can be produced needly to use 85 percent of the coat of a steel part connect from the coats of shaping and finishing rather than from the cost of

the metal staff. Since color can be mobiled directly into compositios, supercars wouldn't even have to be painted Assembly cashs would hill by shoul 30 per cent boding, by 50 to 30 percent. Then there is the matter of the form both or settletter.

Then there's the matter of chiqu-from being it repaired and tree. Both could be at least inselect for significant energy, at it all logether, step Lovers, see you have a boundaries energy at the could excell yet more than 150 miles pre gains using black holding writing being and the seed of the could but a select for its about the seed of the country of the energy of a deader impact in energy at a deader impact in excellent as excellent as the energy of a deader impact in excellent as called and seed impact in excellent as a seed of the see

nour and all the energy was absorbed by 2 to 4 pounds of composts cores.

And Brist's just the baginning Create standard stors, mounts.

Create standard stock mourts, and connectors for such care mayor components—the power plant, energy storage, and too—and then stand back as composition forces proed down and etholerous up Replacing a car's pow-

easy as replacing the hard day of a personal compuer. And what an upgrade! Swapping an internal combustion engine and leadand carbon-fiber hywheal colid boost gas efficiency past 300 miles per gallon. The big supercar play-

post soon may be gather.

The big supercar playassing it stelch beyond today's sub makers. Look to
compare the second of the
compared to the
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the future links and Morposobt of the car world. Supercars would be much
more a scheare fairs a hardare problem," says Lowins
Likewase, wo in probably
Likewase, wo in probably

wouldn't go to a clear to buy is superior. Instead, the dealer would come to your houses with in lightpo compates and give, you a smallested demo with a CD-RCM and a virtual restly heataset. The standard common standard which to the regional facility, when the precise carry you wented would be made to order A few days later the ablequence would demoyour door before moved of the categories of the your door before the part of the property of the common the property of prop

puters during the past 15 y And the technology for sups is already with us **DO**

EARTH

UNNATURAL DISASTERS
The ten worst environmental Ideas in U.S. history
By Tim Redmond and Marc Mowrey

In 1962 some of the base of make a Parsican selected incided thore was nothing worn with Asaka that a few good atom boretis couldn't curs Wasing under the federal Powshares Project, designed to find christs russes for the technology of nuclear war, scientists proposed to detones a sense of powerful nuclear applicates under the artitic cie on order to base open a gi-

to the state of the second sec

ward feller lobbeid hed to use "nuclear excession" in Alexia before the Inuperal Extense caught on and fiscould the government to sotiop the side. 2 Old failettif Geyser in 1970, the Emergy Research and Development Administration specifical open 20-bittorin specification and 20-bittorin million studying a plan to detail and the 20-bittorin open 35 million studying a plan to detail of the 20-bittorin open and dismeter sulf-dome circum. In millio beneath focus the bittorin millio beneath focus the bittorin millio beneath focus the bittorin

1 The Archic Romb, Dr. Ed-

Critismash: miss beneath Texas The bloats sel dresself.

I supplement the properties of the properties what EEDA collect droop, untimied electric power. Express in 1.3. The Adlance. Express in 1.3. The Adlance Exp by electric propelers and powered by a floating nuclear plant.

4. Domay's 28th In the early 1966, Bureau of Rectamated inrector. Repd Dominy wanted to flood the Grand Canyon for a mansive hydroelectric durin Supporers argued that the vest patricial lake would allow visitors in boats to get closer to the haddric patri-

S. Cahe Migue The Noth American Wilds and Power Alleus and the Paulific North-House Control of the Paulific North-House and Power and Montreal diguette pureus would enhe \$0,000 cabro feet of water per second to an arthreal gives in the Magina Chairt.

In 1971 MSC Ch delinate of concept of the control of the consider shooting high-heri radioscber wisters and the sun shorter of the control of the sun shorter of pills could have arrived disably towns account much of the Mazitha could have been account of the pills could have been accounted the control of the Mazitha of the control of the town account of the Mazitha of the control of the town account of the Mazitha of the Ma

World Health Organization ducks ed in the 1980s to clean up Bio neolsmoreauto problemby spris, ing large parts of the salard with DOT But the powerful personal clid half appropriate personal cell foreign spris then local cast at the locards and the local cast are the locards and ded, and mislions of ratis de up seconded on visite.

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much of the freeh-water inflow

derground aguifers
This one and funny, either, it's
happening today DO



KID STUFF

AN EDUCATIONAL ARCADE At Liberty Science Center, science = fur

By Peter Callahan



Here, with the help of state-of-thebount time kids oan learn everything from how airplanes by to feel ac well stupic



same approach. Liberty Science as entertaining as a day at a upational arcade featuring an desic clobe, and three floors of

enveronment, and here kids can

more exotic creatures, kids car

to health exhibits, and visitors out califor with place sides, exposing The last floor is devoted to in-

about, says Graham the process happy" So far, the Contor. 1993 seams to be a hit with visators of all ages. People are stay tion, call (201) 200-1000, DO



ANIMALS



SAVING MANATEES Researchers take to the air to preserve a threatened species By Kethleen McAuliffe

ruising in a birmo at 1,000 feet. I maryel at pelicans flagging their wings in unsion agross the emeraid waters of Tampa Bay, Below at a gentler page. Like hards mgrating across a clain, fish swarm in great achools compled From the sky, one's sense of

lessly as its motor cuts a swither Such near collisions are scorce-

parion on the blimp, marrie-memno manatoes to the brink of exscale shifts Grand and small-Inches Only 2000 of these placdas coastal region, and lest year afpe doolts in the area.

sione bost collisions accounted There's a tracic mony to the the most ancient orders of marine mammais, manages evolved ances are also known as see plosest iwing relatives on terra firms are elephants, not pows I

of an absence of predators. Dowill bother adult managers" reports Weigle, whose post at Florida Menna Research Institute in many apportunities to study the

arrival of the 300-horsepower singly hipped to dooth. Hence, Why.

ment of the seven-story-tall

the mighty and the migroscopicperadoscally as I ascend in the shadowy specks beneath the vores, they contentedly graze in the shallows while unbeknowns to them: a yellow speedbook tears through the narrow channel

extraordinary tool in this effort. "We'r! he juriey to see a single group of manatees from a boat in an eterropor," Weigle explains well in a small plane, flying round and round in a loop at 80 blimp offers a stationary research pierform that can zoom in for a ciose-up view when researchers epot aomething of interest That's just what the airship

lor and migratory patierrs of the

manatees with the opsi of help-

zones where traffic will be restricted The blams, which is loaned to

Zephyr, a radio-tagged female who measures a michity 11 feet As we approach, a battle-weary figure comes into view. Twenty blade cuts traverse her back the ton of the propeller Later in the tees. "Upward of 80 percent of all For all their mudoriums, howev-

look as happy as Holsteins chowing down on append crasses nce for the day Like humans in no boets etch a fleeting cross in

scream, but the boat's plot will

MEDICINE

ALTERNATIVE HEALTH

An office for studying unorthodox medical practices By Peter Callahan

ainstream medicine two health care wants, giving But that may soon change in

medions, establishing the Office of Heelth, in devoted sciely to sturecent study in the New England

of the California-based Affence Congress has sufficiend \$2 mi ion for the program's first year ears of Iowa Senator Tom Harknew ways of healing when a colleacue, Berkley Bedell, left Conatemptive cancer therapy Accordforest types of health-care treat-

in the nest. We want to make sure Americans aren't missing out rize the vendity of alternative seph Jacobs, a pediatrician. seems particularly well-suited for

poen on a Naveo Reservation Jacobs says "Repole have be-The new office will study a num-

According to Jacobs We'll be teeling things to see if they have expenditures of which is exactly ventional case use a more comhealth-stressing positive fankversion over ours—spentific stud-

very ratherest to test some of

traditional ways," says Eve Campractioner in Western medicine. most studies usually strolve two placebo or nothing at all Camnot wable with nontone madias well as the body The dilemme ran't lost on Jacobs, who concedes that med-

way it measures healing. "The dif-South triang will be uncorrecyding well-being into an evaluation." he zava. "Belef is a powerful modtest people may still think it works for them.

office "won't be in the quackly effective but expose those that aren't as well. "There are a int of possificanets out there who sevs Gorman

Ultimately many hope to see used together. Eventually well find a remedy for some deside. ting doctors to look at afternative pare." Gormen save. "Will be gin

of at least some unconventional tions. If atternative-case providers

ing practices DO



20 CMN

POLITICAL SCIENCE

SILENCE OF THE RAMS. A clean and well-lighted virtual reality. By Tom Dworetzky

surfed and ngoled into the informs confirmum, I loosed for a byte. The informals with their virtual readily manning quested nothing for me so I fosted to the DC server and killed the president Mann was the three milanth assassimation of the day not encough or stagh his concerning to the president of the day on encough or stagh his

stavs in their homes and goes to

The information to the state of the state of

juca, basily moving accept from time to time to time to take another farth the water a clearer Frinch man, gray and thin, comes over 1 seek. "Why a his so odd?" "Because he or, explicit the safe." "Because he wants "Seed oath." "Why doesn't he just on our part of the country".

"More boring than out there where everyons looks and active same—put like you?" "I am just like them to you?" "You are here: they are not." "Bo this not like them?" "In virtual reality, we are all alike I am not me, you are no

"In virtual reality, we are all alike I am not me you are not you We are all like who we are but not who we are."

I have him and suddenly realted that I am a million miles sway—quite literally, this I'm not strang in a calle with an old man but somewhere older, picked in I

but pomewhere other, previous in I had been a characteristic and the second of the Esc button, pulling out of the excurse, button and and an excurse button the weether and all the staff if it is the same and service sharping of The side inner a characteristic and provide the staff in it is the same and service sharping of The side inner a beautiful to the control of the service and fertical form of the service and fertical staff in the side may be serviced as the side may be serviced as the side may be suffered to the side may be serviced to the side may be serviced to the side may be serviced to the side of man, and the side of the side of the side of side of the s

"Hey meee," I cry "What are you doing here in this vast cyberwesteland?" "It's Cassian Negativey" says

Ten I if great that we can run into each other now that there is no there there?

"But look what they we done to a life full of virtual boredom and

g. It's full of virtual boredom and virtual exi."

We know "says John, and Reter starts to laugh: "Its that Hemingway segment, we can on your proper providings are not work?"

some great new sm or what?"
"Maybe next time," says Persi
'we should drop him in one wifi
a happier anding "DO"

technology on communication in the work



if you got 500 channels and nothing's on, the jokn's on you.

ment district work out exactly the to way! I wise planner on holocode in the corner of a husboom of the first work of a husboom of the first which washed to district which washed work and well legislate. If that the plans is a first which washed to give my beau of the most of the first washed to give my bits all if in the corner is an infold man, a stronge enough aight there days, under you dail to a whorld you want, and most and other washed the control of the articles of the control of the control of the articles of

control trees? I list. Myone can feel death by merely surfling the black from many go not to do promise and some some feel and s

"Why do you at in this emply part of the gnd?" I ask "It is empty."

OMNI ONLINE

ENTERING THE NEW FRONTIER: The Ornn expenence goes electronic and interactive By Keith Ferrell

Starting in September. Other is Starting in September. Onns Maguzine Online will be available wie computer and modern to subscribine of America Ordino, the world's faztast-growing online service.

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What some of things will you finderline? Lots, John W Campbell, Jr., the great science-factor aditor, once noted that the diamma of paper is that it doosn't stolch. You can only got in as much materials as you physically

much material as you physically ill have room for Cybertsace if you will, does not dised stratch. It can be close to writing in all directors, able to scommodate a volume of information that's tribring short of staggoing. And we intend to staggor young. And we intend to staggor.

the macon malfs orbiting stort of singugoing. And we intend to stoppe she you. Omm Megame Orbite of lasts us the channe to being orlasts us the channe to being orlate. The channe of the magazine the channe of the magazine the properties of the channe of the control of the channe of the control of the channe of the control of the channe of the channe of the control of the channe of the channe of the control of the channe of the channe of the channe of the control of the channe of the channe of the channe of the control of the channe of the channe of the channe of the channel of t

More than that though, we like the being adverting of the perterling adverting of the perterline and appears at the perterline and appears at the perpendix and adverting and a perpendix an electronic version of a paper magner we've seen to a paper magner we've seen to much of that soid of their in the past Rehat, we intend to onate an online envariance that not only application, we intend to onthe subject matter and ongoing disologium with build be careful.

That means online events in which leading filtimes in valous fields talk with you about their and games that you can online declaracity. Surveys and debates that cover today's chuciel isassessarial transmiss and commercial your configurations for cutting edges and binness in cutting edges, for any or which you can declaracity the property of their interesting to the property of their interesting to the property of their interesting to their property of their interesting their property of their property of their interesting their property of their propert

read ine chance to respond instantly to reases brought up in the magazine, to make your value heard and also to hear what offers are selying. Our goal in other words, is to creating an intractive electronic or

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And more . Ornii Magazine Chrine will ise feel issure, quickly beto come an important past of the chrmans of information and enhanced also combined the desired also combined the desired to the combined of the combined will become a hely and 'utal clearing facilities for index and opinions, some we know you be to be combined to the combined to more the mought.

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iN DEFENSE OF REASON.
Countering the rising tide of antiscience
By Robert K. J. Killheffer

It is become freely-easile to coals ocerno and counties as the source of all life. No one would deep with the all the good science and fairness the source of all life. No one would deep with or all the good science and fairness the source of an and arrang. Neverthelesis, re-cre, and arrang. Neverthelesis, re-cre ottopics that of a duch specific cleavastacks. Dut at the heart of source of science and at the processing the relation of Chuckledowy. British opening for Places (Chuckledowy, British opening for Places and England Popping Carolina and England Popping Carolina and England Popping Carolina (Chuckledowy, British opening for Places and England Popping Carolina) and the processing the Places of the source has done, "Chuckledowy, State Carolina (Chuckledowy, Chuckledowy, Chuckledowy,

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IM. GES OF SCIENCE



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ANDS & LORGE



he Dark Army encroaches.

beckens you, laughing ...

In her mad quest for power, Scotia has ravaged the kingdom. She seeks the throne, yet it eludes her. She's getting desperate. She's getting mean.



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sidestep the treacherous and destroy * Ouick and Easy Combat and

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STARS

OBSERVING BELOW ZERO: Astronomers go to the Pole to get that unique southern exposure By Patricia Barnes-Svarney

here do you find the world's best observetonee? Amidet the breathshing volcanoes of Hawei nected in the lush mountains of Chile haddled in the unending white sone of the Rivist Pole.

Chie haddled in the unending when snow of the South Pole?
The National Souther for undebook see of the brief shorted observation.
The National Souther for undebook see the souther so

the first Antarctic centers for an immediate study, located of the all Amunisten-Scott South Polici Base The observatory will surpose previous bilescopes steed in the Scuth Polici base by operating year count—of temperatures this average —25 segment Enforcement during a typical Amunistic within thing from the South Polici says Al Hoppe, CARA denoter and probeas of all standard year as present of a standard pro-

ics at the University of Chicago. There are ceitant finings we can co baller from anywhere else. "Albodo plays a large role in making the South Pele tools for asbitioning. Albodo, and level, the South Pele tools for asbitioning and level, the South Pele tools for asbitioning and level, the South Pele tools for albodo, please is been an pressure, supercient to that at althodos of about 10,000 feat. The Earth's contribigal effect, which flusters the asmosphere at the poles, also morphere at the poles, also

through which to see The South Pforier perpetual was of the exchange by will uncountedly and CARAIs three main programs, especially the Coerne Bedgerourd Relations Annothing the CaRAIs of the PSA industries the confidence of mail temporature floctuations in moreovave rediation dating back to just 1 million years after the Big Borg. The fluctuations in disability that the programs of the programs of the programs of wear significant plans of wear significant plans of wear significant plans of the programs of the the programs of the the programs of the progr



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help out CARA's that man payect, the South Pole Infrared Explorer project (SPIRE); The below area temperatures flow the stroophere's infrared-radiation emissions by a factor of 50 and a feliescope cooled down to ~72

eighe into stars

m, condingly, it will be easier for SPIREX to part out beyond properly to the service of the ser

delcate instruments will work a the very cold temperatures. Lame says: "We may be subject to same surprises—and wits works or doesn't work may take some extra codding." The astronomers based 10 insh and 12-inch telesopper

along with other ernall visible light carriers at the other last two winters. By lace 1994. ACT PO and the first SPIFICX tell scopp will move to the Polis with communal additions scheduled that the reset five years. "There's some common ground to Antarobic telescopes."

and lutter or Mare based lete scopes "Harper says "We're dealing with rest-world engineeing under very remote and difficult conditions—and we're learning as we go along" DO

SPACE

NEVER TRUST A SPACE AGENCY OVER 30 Making the case that NASA is out of touch and out of time

By James A. M. Muncy

era agency is nor dissiing programs and persornel. Coloring redundant facities outing as budget, or rangemsing steet to fulfill a new mission in the goal-Sowalt world? This month, the National Aero-

This month, the Nasonal Aeronautos and Space Administration runs 35 years cit, but most in dependent observers believe Nik-SA extrared administrative tradde age" long ago, and is now showing the letting days of a bumesucrasy gene sente. Indeed, it's gatting harder to zies NASA sensousy. What kind

the 1970s, until 2020 Whet lived of a pure agenty would redisably redesign a space attack, and a space agency excell straight-facelity propose spending had a white distance space spending the performance whether the spending the propose spending had a white distance to plant flags and tooperate on Musc?

But NASA takes therefore you cause is a spending had because it is spending had because it is spending had been every year and getting all increases.

cause its spending hourly sho belain every year not getting us into specia. The problem such house body NASA does things, but what if a trying to do. But we can't even have a rational doals about space policy in the country bocause any clange in the stacius gous threshalms the survival of NASA and dis contractions. So left out the Gordsin knot.

Let's replace NASA with a New Amenican Space Agenda whose replict gail is opening up the finaher of space to the American people and their enterprises. The first namich this new agenda is making the White House red

oils resire the White-House to only select place is a place of in suddivey. This policy office lawding space should develop than text policy, not merely space or secretary. Reclasse the coverviewing because the purpose of the place of secretary of the coverviewing because the place should be time seried to a science agency. The purpose of the place of secretary of societies the coverview of covervie

but aconomics, these police must focus on lowering the coof space access and operation. This will write, for example, or anny a fine and competits work market for learned severewith no limits on Placean or oth low-cost providers—and providing appeals, improperly the social treet for new space industries.

with no limits on Russian or other low-cost provident—and providing special, temporary tax incentives for new space inclusions. Second the government must set up a new research agency to develop space suchretologies in partnership with commercial industry. This new agency should take respecialistic for funding

I source prospecting—as apposed to the specific study of space. Buch an invarigement enables scenetist—not serrogate engineer—to change the best source measures while also creating a customer base for emerging appear transportation and infra-structure industries. These four stopp will make it.

ast These four stops will make it to serile the space forther, ushering in an economic scientific, and cultural life fertisesence for the entire pitnet. NASA has achieved remark-



trough finisi-prototype phose a angle-stage-to-orbit launch wisicle such as the Dista Opper buy, agocomercially produced highresultation resource maps of the unan surface, and researching to be more -Earth selection to on been near-Earth selection orbital controlution materials. Timed, a cafferent agency should concentrate on accounty should concentrate on accounty should concentrate on accounty.

orbital conditudion materials. There, a criferent agency should concentrate on acquiring space assets. If should feece or may the flusters in the control feece or may the flusters in the control provide immediate, low-cost making gates than 10 substates the development of immovable beautiful promotion of the control spaces transportation. Finally, responsibility for most space science should be transferred to a science suprice. The

able things. Apollo may have been our generalized a equivalent of the bailding of Egypt's pyra mide or Europe's cathedrals. But, mortelithe space programs like Pharacha and feutilizem should be allowed to go out of sight. Apolicia greatest legacy was the consequence of the control of the

the knowledge that spoce is not an empty and canipprovide to the ampty of the instant full of the energy and me than it recovered to empand our contrast the sound the datas I the world be hower than the same I the world the basis I the world be based to be written to expend the same I the world the base I the world to but not be worth mockey of NASA's contribution to history to preserve and the empty bureaucraft a shell rather than move toward to act on the potential is created that

of the board of the Space Roi ster Roundation, a public-interes pro-space organization



THE COLDEST PLACE IN THE UNIVERSE

You can't freeze an atom in just any refrigerator. Plus, forcetful forest animals plant trees, and how light can move mojecules

ing heet," says physicist Gary Iran, of the MicroKeivin Laboratory at the University of few purry calones. The laboratory looks like three ICBM siles buried in the Gamegville. refrigerators or cryostate Physiciate from spot in interstaller space At the University of Colorado and other cen-

laser systems handle only a lew atoms of car-The Lab enables physicists to "look" at bilform of atoms moving in unsign. "To the a

Reeps out electromagnetic heat producersble of nearby trucks could jiggle Woma Inside the cryostats enough to saise temperatures. The concrete tripod supporting each cryostal rests on vibration damping sand and

Indge that's not just a little budger, but a lot budger" save has "We get golder fauter Each cryostat has five stages. It's like a stack of five dif ferent kinds of reingerator, each colder than the one above

ammenang the apparatus in liquid helium. Stage Zoumps sweet the helsen's faster. hoter atoms, dropping to 1.5 degrees Kelsuspen Hitting 5 degree Kellen Stage 4 misnudge the thermometer down to 3 to 10 mile-Kelvin or thousandhis of a degree. Stage 5 field as octent as if filed with TNT their stays is prower sublege during according or head-

starting at room temperature and endingfive stages down-in quantum wordness

Stage 1 reaches four degrees (on the Kelvin

cier "lin a quantum sense " they're little sou-No langer forced to march together like sol-"As you get near absolute zero, commu-

rounding electron clouds gets worse and solute zero is hostly enough to attract worldered magnetic interactions between nickel

unwerse, "says has an mook Olympian tones."The ultimate search is semed at understanding that kind of interaction." Kelyn temperatures. As itses saws: "With parting greedy."





A SAFER WAY TO

you perio? Call for help? Sneem obscentes into your communication nation? No-With SAFER (Simplified got a minietpack right on can stop you from tumbling

rito the depths of the

stop you from tumbling, and 6 releases a hand controller

firusters and head for home. Alse SAFER heart cure resident melity wit NASA's ar-bearing floor-sort of the by late 1994. If the tests both the stuttle and the

ICY ERUPTIONS Irrages of Neptune's moon Triton taken by Voyager 2

southern polar regions. Now Paul Helfscoten, Parcal Lee. another type of eruptionmerno class of the area sus-

possible explanators for the causing the ground to swell ancient impact oraters

usually large again and

THE WETTEST PART OF THE HUMAN BODY: BLOOD. WHICH IS 83 PERCENT WATER THE DRIFFT TOOTH BNAMEL, AT 2 PERCENT.

caused by cryovolomem that followed the formation of -Patricia Barney Syamey



Triton, the largest of Neptune's record, has geological features that space station - Devers Pine | sould indicate enter volcanic activity or impacts by space objects

A NEW D-FENSE AGAINST OSTEOPOROSIS

It seems appropriate that as consequent in the content of Welcomen and any country would create a warrant of an execution of the content of t

calls "a much lower toxicity

In tata, subhuman pamatas.



of bone latine, can significantly raise the risk of bone fracture osteoporotic women than the | porotic women "

commonly inelestiqued warmin D₂ drugs. Wis believe to it may be settly used in higher dosages to stimuses bone formation in cases.

Installad of future placed in the doctor's ears, whose connected to a radio receiver relay change in the body's natural pattern of microwavers, resealing host papels—places where the temporature has increased as the body supplies retrained to damaged results. A computer deplays and

blood to damaged tresu. A computer deplays an atone the data. "Microwava snalyss" coplants physicist David Land, "felhibits hast set for viterality from inside, body as watelength jus stightly shades then take

renal fature. The new values based on research by Heste on Sector of the Linear of the

Displie profising Barly Tilla at the Creighton University Medical School in Ornativ National Tomes studies take at long time because bone teach turns over very sharly. Barlop admonted es. "It could be two years, maybe longer, before approval."—Scorge Nother

AT ANY GIVEN MOMEN THERE ARE 1,800 THUNDERSTORMS RAG-ING AROUND THE WORLD, GENERATING ABOUT 6,000 FLASHES OF LIGHTNING

EACH MINUTE



WAVES LOOK GOOD" Take a deep breath T stocks a ferritis and has ing stothoscope, inver-

It the devel of the instearch centrary, could on the way out. Researchers in Socinat's Glasgow University states the Turnan book as we diagnostic inchrequia at uses the Turnan book societies of the Turnan detection. Faccilling the loss detecting or "Bones" MoCoy used in Star Tinks, an assessmic evice moving over the min in radio annial insolution.

CONTINULUM



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Dall Robotics, a company

material bond with each other and the surface.

works on auto topcosts,

wallpaper countertops vinyl.

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TWO POLINDS ISD TIMES THE WEIGHT OF A BASEBALL) BELL BURANCHADESM BUTORA

> towel, and spray parts can -George Nobbe

"You'll onwer hown a guest world 68 you knock exit of the harren orce." -- Gonzae Remayl Shaw so-ció particles out does

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CONTINUUM



A SWEET DISCOVERY | very premature betres B PREMATURE

babes old become blind the medicine go down these days-1 at the medicine babies intestries can't

THE PICNEER TO SPACECRAFT WILL MAKE ITS NEXT

CUEDIAI DENIVITATINE WITH PROXIMA CENTAURI, IN THE YEAR 28135 A.D.

naturally occurring suggr called ingstol may help the study of 221 babies, only through their first year of life the surviving inositol babies

I Hallman's study, doctors Haliman considers the decovery one small step toward spelly improving the treatment of severely premature babies -- Michele Nocins

"There is nothing in nature

by the wind, water, or other



common affiction among





NOTES

IOIN THE EXPEDITION AT THE MONROE INSTITUTE

ROM

WHERE RESEARCHERS USE THE SCIENCE OF SOUND

THE NEW

TO EXPLORE ALTERED STATES OF CONSCIOUSNESS

ARTICLE BY MURRAY COX

I a lion could talk, we could not understand him —Ludwig Wittgenistein

Do to carrings, they situ your webs lower, A settl emotive value in entropy in less of the controller or and the discussion of the controller or and the discussion of understand produced produ



THE VOYAGERS: FOUNDER ROBERT A MONROE (OPENING PAGE): F HOLMES ATWATER BRAIN LAB DIRECTOR (ABOVE)

Does anybody really cary?" I depose which will lest, screonly, seven days, because we seened up for a week long ed near Lowingston about 25 mees south of Charlottesville, tucked away in Star Ridge Mountains, Residents gall land is spectroular. The tug-of-war over my Swetch is a righter story of my expenthe internal ands by which I sort out the I believe-do I accept, for example, the principle of scientific obsectivity and re-

historically and culturally portingent? Monroe, founder of the Institute, More spage constraints. For a week, I conwith the other participants. We've come from all over the world-in the Bluss, Ideho, Perekskill, New York, Brevard, North Carolina From other



shores-Fife, Scotland; Ibarale-Ken Jai nan Ringmenylagi Hollanyi gayi term Offernort, Ville D'Avray, Hern, and Gernay in France. A psychiatrist, a doctor. young, retreet Wild Street broker, a wre en a psychic healer, a journalist. We rep-Incal persuasions-Carrelosm, Republicensm, agnosticism, anarchism Viveos, and according to Monroe, Gateway is "designed to confly caude you

cooms is trivial Consciousness is a tonged controlled and used because thoughts greate resits; we are what we think, and we limit ourselves by what we expenence ourselves and the world around us. Gateway, Monroe says, profor self-explosition, to ask themselves 12 What is my number during my so. journ on Earth? According to Monroe. the goal of Gateway "is generation and you," he says to us, "yet to be transbusiness, to belo people who went to transform themselves. To accomplish this goal, Monroe discovered is techmove for inducing eleged states of pon-

scrousness and now provides a spa-The adverture of Morroe begins and mental Chamber (CHEC unif)-or, as I alternately dubbed it, womb, monKs cell coffin Lavna arrough for a simple

from light and sound and insulated to dation if I wart light it's been-inc. blue, and gold I pick the color, adjust pumped into the chamber. I aprend most of the week in the CHEC unit-by where for six or seven hours a day, I gold. It's where I ask the cosmos-or just the ceiling-the child's question, "Why?" and hestardy heren to week the various threads of my life story into one garment. The cell becomes rate of recognition where, with a certain amount of ease. I realize I wouldn't re-

write the story even if I could do network feeds sound patterns and special exercises designed by Monroe to each unit under the direction of a team of trainers. We receive the direcindividual tape recorder. When an exerback from where you've been, you record your expensage -- a "yogal diary."

as Monroe says



EEG BRAIN MAPPING OF THE HEMI-SYNC PROCESS

In inter-sync process, a potential cutinter-sync process, and process of the parameters intercompany of the brain Cingrasity developed by Rebot A. Montes and continuously being sensored through research at the Montes interest, and the process of the process

of assertance, like a cinears. Additionally, during a dissociative-state experience, there is no impression of being "increasity" in the physical body, because the physical body state as either or side or fully entanced in electroscophishographic brain mapping, the shift from mortal winters oransequence into a dissociative state is evidenced by a change in emptrate, begreining and confered pre-may be an emptrate, begreining and confered pre-

The weaking states in characterized by a fine and bases (8-4) bentsty beam weeke Alphia train weak aboutly confirmed to the ocction behind the Sylven salects (the back of the behind the Sylven salects) (the back of the Sylven salects) (the back of phia." The dissociative state is characteristic salection of the Sylven salects) (the salection salection of the Sylven salection salection salection salection salection salection on moneys beword in dissociative state on moneys beword in dissociative state personne restripation aprilia activity is suppressed and implicated by synchronous pressed and implicated by synchronous and control these of the back.

Beyond denoisation, there is managedtioned in experiencial in a transcrient state can be defined as being unable the chromal limits of love is ago and the proof unconsultant of love is ago and the produced properties of the state in conservation of the state in contraction of the state in the state of the BEB from mapping, the state from a dicincil of the state of the state of the state of course state in transcriptions or a conditional state of the state of



"Seeing" beyond the limits of normal perception into universal awareness ineffable, profound.



Dissociative state: When consciousness shuts down, the body is asleep or in a meditative state—ilke in a dream



Resting-state alphac Sylvian sulcus shows and tells all—from the way we process reality to

Max

intercont by "reading-each alpha" and relatively high-emphade, synchronous slowware activity in the median of the central contex accompanied by regional (commonly tempored) permis (30-bests-plus) beanware activity.

The characteristic EEG perameters of

The characteristic EEE parameters or estimptates define served an introducate temporament, the outcomery way in which an individual processes and inter-acts with the world be or are perceived. The outprocessor of this alpha activity fees one to perceive rangifystead energies. The outprise one of the signal activity fees one to perceive more of they one of the served processor in orderly resting activities and the perceived of the perceived processor of the environment. Congrego or augmentation that perceived put the perceived processor of the order of the perceived processor of the

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set of ERG bran-mapping electrodes, these original binaural frequencies can only be observed as having been misigated with pressing electronized acrestly. It is the bean-west enfrancement which occurs during this infregration process that acciums for this effectiveness of the Frem-Sync sound patterns —F Holmes Alvador.

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be measured directly. At the cortex, the







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COMMUNICATOR

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ground in a star when it is easy in the conging I dis quality in the cold and blasse in eathers are I arm both is Tissering II and a in accompt I "when does the "hearing" I and a in accompt I "when does the "hearing" I required I secretic Who as the "I that penses the body in amount Zood dis many I and openate to despendently of what I we conpenses the body in a second if the tages of the control of the control of the control of the blast reasonal, used to blast III are made as disposary of the control of the tage I and I also the control of the control of the tage I and I also the control of the control of the tage I and I also the control of the control of the tage I and I also the control of the desired of the control of the control of the control of the desired of the control of the control of the control of the desired of the control of the

Lying in my cell on the second day, it thought of Don Cuscots whom Marisia reameds me of Where the Don away gants. Sprinch Prince, the stielder's saw vendmills. Giarrig mid-o simple bars to be simple bars, basin the Don dow the Shedd of Mambrino, and Sancho vendered, How can these times bar? Marisia bar Marisia. I hink, a a classicandant of the Don, shifling us they shall be oneally than what we also

or location.

In Relevant Processing of the World State of the World S

sery at the column and age? While I was been served for the imposition, of the week in the Common younger as a should not be under the Common younger as a should not be coulded and the officer and the column and the

mend for your affects in cents again as friend, and independent and the measurement of the story tennes are measurement. The actory tennes are measurement with any processing least of paid only only to paid a face on the demon Macronia's bears at the confoculturation. Macronia's bears at the confoculturation and a face of the demonstration and a fa

"and I ween't prepared to understand my bizane experiences." He thought he was going mad, quite literally. The ex-

pertie where he consulted said he was probably hearing a more featurestation probably hearing a more featurestation. The featurestation is not a more series of the featurestation of the featurestati



toe began to utilize south a modulum he was format with in the process he discovered what he calls Frequency Following Response (FFR) for which he received a posteril in 1976. Details assured prattiers works elevitical responses in the train source of the subport 199 controlling the brain wave fire quarray. Montrol was able to help valcribes relax sity wavide, or put them to along I he exhibited contributions or abund frequencies that resided or abund frequencies that resided or abund frequencies that resided and the processing that resided to the processing that resided the processing that resided the processing that the process that the process

cortex signals

And fruit's when the joint started jump
in lights, color patterns, wopes, music.

ibud explosions, a towaring of blood pressue and pulse slight temporature drops, leas of macial time. And almost every subject began to talk about perceiving a pinpoint of light. When the voluntiate moved to the light, it expanded and as the voluntion moved through it lits COR ways achieved. So much for

the COB was achieved. So much for the early days.

Today Monte calls the process by which altered thates are induced. Here-

Sync (harmischand synchronisation) Alpico (with real properties) of the Assijectic (with a minimum of 20 indexessajectic (with a minimum of 20 indexessaicide per subject, that connect cut for 55,000-plus texternot baid for a restrict 55,000-plus texternot properties of 55,000-plus textern

Home-Synt uses patterns of sound to orealle simulationeously an identical service in both brain herrasphares. This insears that when your ere hause a certain type of sound registly says 15th herbit best invitable arginal (says 15th herbit best invitable) arginal or deepslike piddits signal (0-4 herbit). The best invitable in respond of "resonate" with armitic electrical signals. "We bean to recognize that we were creating

a gap through which his or sha could obleve other states of consciousness," Montres says. We cated it Gateway? According to Morroe, the applications of Herm-Syno are fartiless. Besearchare as being the technology in a ride variety of feeds, including modcinic, mercial health, stress management, and aducation in this physical lentral alone, skilde in their shrive that the peo-

na alone, studies have shown that popular ultimity flexible sylven on control gain, sterilights that immunities spatial flexible should be subject to the sterilights that immunities spatial flexible should pressive, and enhance readowny of speach and motor skiks after a stocke Herre-Sylven controls immorrate, stocke should motor skiks after a stocke Herre-Sylven controls immorrate immorrate should be supplying on a literal should be stocked the stocked of the stocked should be supplying on a literal should be stocked the stocked should be supplying on a literal should be supplying the should be supplying the should be supplying the should be supplyed to the should be su

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The fabric of space-time begins to unrawel

THE CONSCIOUSNESS

ARTICLE BY ROBERT K. J. KILLREFFER IN THE QUEST TO UNDERSTAND HOW THE RRAIN MAKES A MIND, RESEARCHERS SUPPER THE SLINGS AND ARROWS OF

ILLUSTRATION BY JOEL PETER JOHNSON



bury rewritte practicipay watching the brains of pre-What is the mind, that else as a screetific discipline, forming musicians, identify

But if can still be is shock to save element that surface James declared that resolve

HIS ONCE SLEEPY ISSUE HAS BECOME A HOT TOPIC. tions, spurring an ongoing

no the regions of the brain used in playing a piano. PET specialist Mascus Reighle of Washington University in St. Louis investigates how wo recognize words. Flashing words on a computer screen os which arrais of the brein react, and by companing (strings of letters like might).

valved in the retrieval of Just us Garren's telescope opened the heavers these new techniques have new were and they've brought their own perspec-

fly after Dermet's book asnacearily 1991 other waters weighed in with recover and book-length rebuttels, and tinus to appear regularly Long How the Asset Makes a Mind is a September remental Most Human Conios by Nek Herbert in November This once allegoy issue has become the hotiest aci-Scientific advances be-

still the center of the debeto the mend. Sparks began to Descertes' "duelst" theory two distinct types of subtury research on brain anater developments challenged the Certessan theory. Often ous connections between stroke victims' brain damege tions—the ability to read or recognize taces or recall the current data-showed a ical brain and mental capeover. Mind and brain are the mind more than 150 years ago, beginning with breen does Verlous forms of

among agentiate and philossort or another is now a reunerwrity" according to Denterishess, who has been working and writing on coneciousnose senne the late 1990s. But that unarimity is any the venerable Sir John Eccles will person and any earl tiete and philosophers share the uneasiness of laypeople we' are nothing more then

our brains. "I still find it diffiout to holowe," writes Backand Restalk, a procticing neu-"that this three-pound mess sistency of an overrice over

IF YOU THINK YOUR MINO AND YOUR WORN ARE SPEADATE TRIBOS...THAT TETRETY MOVE TO "YOU" TRAN JUST YOUR MRAIN-DANCEL OFWETT HAS MPINE POR YOU. THAT WING OF "ORBLINE" HOHED FOR RECADEN.





WE'VE JUST BEAMED THEM DOWN. Now you can beam them abourd. The limited edition Star linds' Classic Collector.

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on TV These articulated action figures are sutherfer re-motions of the Classic Sea Trick cress. This is a limited edition set, and vidually numbered and packaged in a replace of the original bridge. The figures are available for a further time cells, and will not be self supersity. If you like Star Trick memorability, you'll find critication these now furness or the loanced threat to the







cado is the seet of who I am of who we all are Dennett, currently director Studies has been surprised by some

worsel critics in the consciousness de-Press, 1992), he declares, mincing no rism and materialism are just as metaken. Provocatively, he calls mater-'at best, false " In fact, like Edelmen

sciousness explained it's conscious

firsh in a determinate universe of simnothing of Biretein's relativity nor guen. meaning an assumption that physical all mental phenomena. Seerle prefers

biological naturation. Either broad comprehensible to the human mind-

ly it's nearly impossible to pri a clear define on other one. Very often the morts are inherently unable to concess ing the mind, we're like ages trying to 19971-- calls them "mischiniques readgaps in the scientific account of the

M.I.T. Meets Cal Tech



Ready, set, the square root of 4506, the first whole number in the series distinued by

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once that says you've got a principle

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laws of others: "he wrise, liths treview under coming to grap with the concept of "mand" in Physical or logical forms. Nat Herbert, a member of Berkelbyrs. Consecusiones Theory Stocy in the Stocy and not a commar leader of the bosins in value grap with the self-man for the consecusion in the self-man be considered a "systemetric way of the consecusion in the self-man be considered a "systemetric on a para with south impactible pile on a para with south impactible pile.

omena as gravity light mass and " actrical charge to Searle takes a similar view "Con in

ble a, Secrie so abbras the vice than physically dependent on the physical physical

and their more there had disals.
Most operating bed throst on noon on tractions may be introduced in the control of their operation convenient. The bears is come 100 their one of and 500 000 bit one postate convention. The bears is come 100 their one of the other of the control of their one of the other of the control of the contro



the true richness of large systems." Slephen Kossiyn, a distinguished spehappening in the brain, but there is plenexplain certain phenomena. I see no seeson to think that other phenomena will entrely recompatible in fact, they ex-

losophers poss questions scientists find a method and apply if in order to new neuroscience data began pring and of UC-San Diego (another veterrespience data. To others, the sometic

unna out theoretical definitions that to their spore relevant from more teldsthe leading edge in the philosophical

meresting to see anybody strugglo ality of it is that it heart had much impact on our experiments." Erielmen is resophers," he says graciously "be-

pb of a scientist to convert the question long-standing concepts into question, wate the only major difference being one of acale. In 1967, bead Asimov sum-

brain and a computer can be expresent in a single word complexity. ned in the coffin of the theory that the where computers have naidy designed

anually modifying aself and that mod-

6Brains and computers have very

different talante Evan simple can do anthmetic far

then the human brain. 9

recognize spoken words or train a robut to identify objects with its camera

model still offers useful insights rep certhinks computer science provides "the mind Kossiyn believes the computer model is madequate in describing real and Dennett across. The hardware en't brain mimics the computer in some groe in humans," Kossiyn adda. "If s the result of a neural network frying to do senal computation " Recently, researchers (lad by

Hopfeld) have been turning it around.

Stephen Kossiyn and Oliver Koenig out it in their report book. Wet Mind. The Press 19925, "By proveding new super to mirried the activity of complex net-[computers] algise theores about brain function." Oth-

notes that "most experimental neurosuperproperties of the dames of but there's on senously and gotten lots from #1" Neuralnetwork models "don't copy the neural proplemes such as back-propagation

models haven't incorporated yet is the brain tasue and plays a visit though asses In his 1985 book The Fiabric of Mind brain researcher Richard Bergland went so far as to call neurotrans The computer model sin'll the only half-

phor Dernett calls the imagined conter and considers if "the most tens

ers do not. Some patterns of neural so-

nance, other patterns do not," notes Flansgari with some domay "The etc. ry bottoms out these our own minds has also come under ingalled "recompitality" or "disphenous introspection" (neither the philosophers ecomination in one case, UC-Davie's brain periorits-patients whose corpus galosum, the mass of fibers intimo the present communications between mend such as "Walk," in the petent's only reach the note homephere, the potwit world use and begin to leave the room. When seked to explain his or her

the nationts seemed to believe their

and, to gather visual data, but we are some way, we good aware of a mowith exactly. "Con of the most striking features of consocutness," writes Dennett

the year McGnn calls introspection what he calls "common-sense facts" than most therform are willing to accord This apunous 'obviousness.'" eave would respect with some invested but. Despite his a creat obstacle to prop-

ress in understanding consciousness." urse to take a lyeok from the fewer of plan' the mind at all? Among the genbackering agrantists and finlesophers there a a healthy concern over the pos-

There are many reasons to worry dence for the basing of the mind in the bran as we do for any other physical idea of an immortal, immeterial soul we will lose our more! bearings," Denin Invoces affinered Inmedice, a test agan unusual among philosophers of throughout history—from Plate and Aris-

Huma Keet and Mil-are based on ture would form the core of a new,

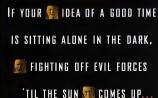
dence showing that great varieties on ga, have found expressant variation meno in twom scrate structures, and at good life "Science council reduce our laboraries DO

a deaper level, it's increasingly clear Thus, each mind-each personalityis a unique, imstroducible pattern to be arouns. 'We must accept that death In The Gargeot of Mind (1949), the

red that we may be debunked," writes haven more he somewart so really ex-Will a complete scientific description of mind will over answer the sort of exefential questions about why we are

The Mort's Say (Barrom, 1982), sor ence writer Timothy Ferris explains verse " We will always have 'room to years. Edelman assures us that "the con So we need not lear This grand to lesso us arguing for years to come! we will care in ordern will feed up to bed Owen Rangoon: 'If will be our proudfrom its chostly past and provide t with a credition reguratoric graduate in

on our first contident where toward that





"Standing on bare ground—my head bathed by the blithe air and uplifted into infinite space—all mean egotism vanishes. I become a transparent eyeball; I am nothing: I see all. I am part and parcel of God."

"I was unprepared for what happened Almost instantly, I somehow knew that I had opened a door into something unknown but very powerful. I remember usering a cume. Why field of vision was immediately a dark mk blads, which then rapidly filled wish brightly colored swrling phosphorescent 'sparkles'. This vortex but in intensity. — and luminosity until it coalesced into a sort of ball of intense light into which I was wellowed up. This light or energy was completely oreobedining in road file a tomado. — the being at the centre of a nuclear exposition without being consumed with pain or annihilated. I felt This is God, and for the first time, I could seene the power that this Creative Force actually represented. I was totally in any Test through on the whole experience, I was not able to keep a grasp on my own personality, I was just a thread of freely running consciouses, but had the control of t

eling of e

"I—my drashta, the Looker—became separated from my body and mind. This was Alaum . . . And then the Looker witnessed everything in the world, this ground, these trees, this river, this mountain, and all people, and all other things, the light, the energy, and also tistelf, myself—all were Shakti, the primordial energy of

FINDING GOD IN THE THREE-POUND UNIVERSE: THE NEUROSCIENCE OF TRANSCENDENCE





seen, no Looker and looked—they are One—bet all destines; the Macintar Three occounts of religious contany. Three occounts of religious contany there were supprised by centrals and cuthers. Religin White Emission with the fair report, an account of the depanance in a few England wood in har before the contained of the consistence of the contained of the professor at a large Assension universal years protected from a psychostocy of years of the contained of the of years of ye

plant The fixed is a dissociption by a ledular year should be some prediction. To those we could not therefrom year scharpfrancine about their hallucrations of becoming (dod reports by the mans of their out-of-body expensesses, accounts of Disnysian master in arricate decess, and quistions from poess and scorrers like William Bales and he Bale about profits in 25 and dissortion a similar folial profits in 25 and dissortion a similar by purpoyers of existing years, yearning judgpers in 25 and years of the profits of the years of the profits of the profits of the profits of years of the profits of the profits of the profits of years of the profits of the profits of the profits of years of the profits of the profi

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ing transcendent? And these events an apphanomenon of the shear complexages or of the brain, or are tilby gataways to a new kind of knowledge? asked in order to find a research which in the sheds light on these questions, we

whosis shiph on these questions, we have to skeep approximately account of the committy of committees of science, a weld are avaidable resistant. Beginning of science, a weld are avaidable resistant, beginning as as work special resistant, as least of of church. As one of the committees were suffered to make marbors were their committees were their committees were their committees and their committees were their committees were their committees of their committees and their committees of their committ

As a result, using psychedelio chemcatic as a spannific route to the inner universe is just a terrucial this frostpath in the thickets of social disapproval and institutionalized skepticam. Nonetheless, spaince has offered a few cluss.

A SHORT HISTORY OF CONSCIOUSNESS

IN THE EARLY 1996, WILDER PENHELD, A CANADAN NEUROSURCEON, ISTANLIS BUT A PROMISING BEGINNING TO REBEARCH HITO THE CORNECTION SETWERS THE SEAL AND TRANSCENDENT FERCEPTIONS AND FOSTATIC EXPRENCES PENHELD OPERATED ON PROPIE WHO HAD SEVERE PULLERY CALEED BY LESKOS IN THE CORNECTION OF THE PROPIES AND FOSTATIC CONTRIBUTION OF

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the year KOD 8C. In the 1950s, a doctoral student at Harvard conceived of a manellous RI fee experiment involving housewise, hallusingoper, charrity outdents, and Coult that poised serious challenges to conventional religion (exceedity, file consoluted has experiment, as research for Ris Ph.D. in theology.

the firecure and expression of religious accision. He trained house place accision, the trained house where, presumably for their lack of bit is given to grantly present present an expression of the company of the company of their public distinct procedured or ensisted accounts. Then he field a group, jettles are common inchestle belowof dwarp studynth controlled does of tay which will be for hallowing selfsition of the company of the company of the company of the company of the greatest from a massively the inchestled accounts of the company of t

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In low it is the furnish brain achieves transcensively or abbest stables. The National Introduction for Day Abboth and the National Introduction for the Control of the National Introduction of the PSA and the PSA and the National Intelligence of the PSA and the PSA and

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most selling thing about DMT," aury Shimanan, it is mind creet Shimanan, to a mind creet Shimanan, control selling the selling selling

logical disorders or physical problems that might properties their well-being, and as a trained offineal psychiatrial with a russ or hand, he helps popple get shrough the most difficult parts of hier DMT high. Soon after the most polent effolts of the drug was ref. Streamen also administrate along qualifornities—case we concentrate 200 qualified and policy dispersion of the drug was 200 qualified and middle and policy dispersion and policy dispersion and policy dispersion of the drug was a middle and policy dispersion and

periodo transportantes in his publicaria maray milanease with experienced users of DMT his found many with reportate spiritual experience. So in designing spiritual experience. So in designing spiritual experiences that influence for publication field [Lind publication of the processing spiritual publication of the Control of the Cont

And, in fact the questions get statudiedly strong responses. "Actually" says Statsman. "about one-querter to one-third have experiences that could be interpreted as transcendent or refgious or having something to do with

These results leave no cloubt that as much as any other drug or straulation. DMF has the potential to induce nel-gross ocstably But what is the meaning of that experience? Is it neal in any series or just an arribratly induced hallumation? As Strassman points out. DMF is alleasy propert in the furnam.



ical is administered in potent doses. What is DMT and the potential expensions it can induce doing made of us in the first roses?

Physiologists have traced the roster of psychostrze drugs like DMF and LSD-25 through the anatomy of the brain, matching the presence of these chamicals with level through the services of different regions. But all the low versues assignomeous of the brein moderal in elegacy or control of all the brain moderal in the large control of the brain moderal in elegacy or the psychologists of the control of the brain moderal in elegacy or the psychologists of the control of the psychologists of

see the eclore at work.

Most psychoactive drugs like DMT script a radical alteration in the rate of the major player in the brains account to the major player in the brains account account to the property of the property

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his formousable self-legislating pysions, combovitisticalists also us orationed in mail resists, our "series of balance." So reterm is the growatope of the mechhanis increasing or senously depileting certainm in the basis series to classiniste has holisecental, control, loosening our gipt on what we are accusationed to wewing as reasily. Such a model of sendomin's action supports the view of many properation of halfunguing accusage—file in Timothy.

supports the view of many proporation of frailurnopparts chage—the Timothy Leany, who has mentalized for a length me that LSD and MCMAM don't so much discount of something to us as they permit us to experience a potential final already costs in the brain, a potential that as deepended or blocked by ordinary dependence in nother to transcend, you have to Reach the grow launching yourself on a trajectory skew to the piece of neural reside.

Sendomine headquarters is a compair of closely associated control bodes buried deep in the brain steam, shows where the brain makes the spinal port, called the rapine nuclei of these the does and median rates incing produce 80 percent of all sociones, ports of the brain botting porticallal, few is central sendobosio.

Another point faithcongress drug

THOUGH JACK DANIEL'S BIRTHDAY is celebrated in September, the exact day and year remain a mystery.

His statue at our distillery reads that he was born in 1850. Yet other sources state it was September of 1846. And as to which day, that may never be known. Still, all the confusion has never stopped anyone from celebrating Mr. Jack's birthday. The way we look at it, there's any one of 30 days to choose from.

SMOOTH SIPPIN'

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Outdoor Optics A Binocular View

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heavings to the infract areas, where we brain now recognized the handle to the refrigerator door—Mevin, good! We're gatting closer. But when you take a potent hallucinogen, you stimulate the sentions recog-

these neurons from the righter ructes disrupting the brain's delicate belanding act in cycling normal input missages from the extenor world—adding special effects, you might asy, to that inspetial You brain now sees, and server upon, muth vision of men entergrants from the war not man entergrants for a defined, what is defined, want stem "something different" suggested by the chaps of the rando (O perhase that than is now extend the control of the property of the control of the contr

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the bit of dispersion in a throaton, when it is not better than the second of the seco

banamented from the neither regions of the course and the result is very likely to be a max way of thirties, now insights, convenient experience. David Nichols, professor of medicirial charmisty and phermicology at Purial Charmisty, speculates that what melves drugs like LSD so potent is that they set in many places at once, and they set in many places at once, and those actions somehow "sum to give the net effect. If you're talking about a whole lot of thought myolygo. It is more ment of the necocritics. On the other work to give some people these exworking thin ichout the potlex." retorm Brough the brain, it becomes tor site" in the brain is too simplished. over through such an atomatic 40proach currently dominates neuroscisince research, according to Weller Freeman, a leading neurophysiologist. Por-

examining properties of individual neuand biological work for a more macrotrend's tecs. Its brain mobilizes large vast regions of the brain. What the heren't leaping into a new order of selfprogramming complexity

caught in a cosmic whilehol of itsirecomrient measures and images. Were still His the Holy Grail, such a complete penences as denving from a "place in

made the oar go in the first place wheels?" Nichols even supposts that



some of those drugs, under the right difthe brain Indeed a few people who spordering of their entire mode of perness it's a different land of invenences has for treating mental streets "These

Despite the out-of-body feeling even be physical involvement in these farther out in the widerness of deinstmad scientist about him. Shulgin is the micrano opplisher of psychologic chemsonsic pharmacology at Berkeley, his restution, but rather in a wildoat, oneman operation-government licensed-

ter another lests them on humans-a

The title isn't the code name for a now erful new autorance, but a bit of whim-Have Known and Loved." (Phonetrylamine is the basic molecule propelling skeleton of an ampheterrane molecule long-acting psychedelic-and tred to brain by using a man-made bromine totope that was radioactive. This this ac-

the bromine! because other chemicals mours stations something artificial on elements that can be the gamma emitfron-emission equipment because of

ting time on their cyclutron. Ever try to lungs bladder, and the liver where it was probably metabolized and transturning to the brain to do its mind Nichole, Stragaman, and Freeman reguires an additional complication. It

oin curps. "you may be throwing away." whimseel leap are reports like the fol-

€Why does this halludinatory

doorway to the gods butk in the brain

question awaits a more metantivaically inquisitive science

white light that seemed to be where ably wonderful to perceive it and to be close to it. One wished for it to apfret people would at and meditale for hours on end just in the hope that this begged for it to commun The world was so for important than getting back in touch with Him ... I ended up the expen-

had accomplished a great deal. I felt large lab, the research assistants, and government funding the explanation for get a big project, Shulgin wonders what it would lead to "There's never enough to fall you what's going on neurosubjective expenences. What makes a subject say. "Its asserts God"? I doubt neurochemistry."

But there is a promisero development along with Nichols and other psyby Named the Heffter Research Instiwho discovered in 1897 that mescaline was the active chemical in the peryoto ton and medicinal value of haliucinowrote, "If the doors of perception were men as it is infinite." Do these neurboantwe drugs cleanse the doors of percep-

to become aware of a point, a brilliant by Bert Kaptan. The inner World of Manatory episodes which then grow moreseingly and dreadfully psychotic and horstivity of serotoren uptake in the brains of achiecohrenics appears to egho the (phencyclidne), and other hallsomopene. As a final warring, many of the préparation de la serie entragante faux presents) of sendonin activity. In other words, the chemicals that help control opens. Yet, whether possons or mind exthe body, soo, to undergo a massive and pippal change, an ecological shift

> have adequate answers for Science ical ablety, one might even say an imverse of spints in the first place? Why closs this hallucinatory docreay to the driven conditions, is listen no to itself or caseno from "out there" is a question that awaits a more metaphysically in-

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The first in a series of dramatic

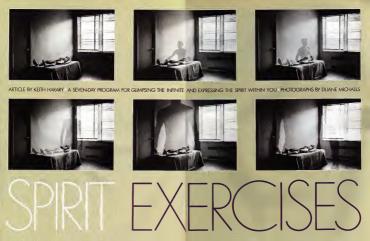
his dramatic painting depicts the Rockwell B-1B, armed with cruise a low-level penetrating bo powerful aircraft approaches the speed of sound, the 123,000-lb. thrust of its turbofan engines is unleashed against the still waters of a northern lake.

aviation pointings by Dru Blair, each print is hand-signed by the artist. Visa/MC, check or menny orders accepted, add \$6.00 sih. 1-800-828-3634 803-779-2540

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Call it a pessing water of the infinite. It can happen while you're watching the wind wish the open desert in the mid moment, you make a conscious connec-

have long called the human soul same it represents the comforting no For others it represents only their sin Whatever your personal concept of the meeting of your own existence. Many without pausing to consider whether our fact, as Kerkegaard suggests. If a only in those few bird moments of clarity.

orcises designed to stimulate a great your ability to handle the exercises proceeding. You may terminate any ex-

Day 1: Life Lines. Consider the ways in from your earliest childhood to the premmage and awareness of the world ing changes, your underlying sense of tough with this immutable facet of your

it later. Although these exercises are

down and list live of the most significant days in your life from chaldhood onstones as the day you met your first childsuch distinctive personal turning contains the day you came out of the As you of down each frem on your

responsibilities, for example, you

might like to practice this exercise

while retired at your dark. If you ident-

mother, you might like to position your-

6As Kierkenserd suggests, it's only in those few brief moments of clarity, when

mortality that we find ourselves awakened hy Ifa's deanest nuestions

tice the common feelings, concepts

your eyes and consider how these un thingng sapects of your self-ewereof you to this very day. Try to let go of self in this feeling of "youness" for 10

to 15 minutes before going about the identify so strongly with the physical might even were love as the boohernwew the body as a mere container into which we temporarily pour our aprilual one day be shuffed off as we enter the undecovered country of death. Whiteit within. The activity for Day 2 provides you with an opportunity to learn how need to position yourself alone in a dark-

in a holder on the floor or table behind front of the mirror with the glow of the candle ferming a visible sure around toward the image in the mirror and slowly take a deep breath as you look at what it would be like to feel that way magne yourself merging with the im-

> Now allow yourself to megne the mwetch it in the minor Imagine, for example that you see an unterring face also, that you see a different body no ing slong with the different lack that you posable in your imagination

mage before you, how you would recconize vourself if you had an entirely of To test this concept, find a dequese the entreme. If you're raver haired, for ristance don a platinum wo. If you're shirt and tattered leans. Take a walk in a piege you don't usually frequent and

if were-remains especially the same dream. The inclined and soul is believed to that are at least conetto. If not spiritual in origin. These incom qualifies, in a

your everyday life. If you work in an of-

sense, comprise the essensal "you" some time in a flotation tank, this

Begin by dearno the room of any disopen slightly, and place a radio or telchannels and set the volume of the resulting state to a comfortable level as shower using mostly hot water and at

your clathes and be down on the floor small, vsu may also at in any position

tracting floughts about your present natal memonas are actually possible

veloping fetus, floating in the armietic prevorded self you envisioned in the exset to experience these feelings with-

fore your life in the womb. Do you ennurse in colonial America? Vocatable ex While your present existence may well After you've linested your mental way-

Day 4: The Remembered Self, Gryen uaries. Often, an ertire lifetime is lights and the surviving relatives. Even

sonal existence has had on the world knowledged or whether or not we our-

and a per. Find an inconspicuous styles of grave markers and rend this in-

must have witnessed imagine for ex-



Inter Gurray World War. It to enhance the barth of intervence to 1 state part in the March on Waterhapton with March out Waterhapton with March out Waterhapton with March out to the Waterhapton Wate

fended hoses and dinems.

As you reflect upon your two obstanes consider the positive change, you might make in your life in order to bring about your desired ining term in part on the world. Consider, also what the exemple has revealed to you about the nature of your soul.

Day 5: The Power of Love. As Mother

periodical robust given in possissim or special fastionation as the size of selfless love. Thus, you gold to Day is it to perform a series of self-less acts for other thinds, pooling to the control of the control of the control of the control of search or complete stranger less forth nate than you for order to have an hored impact however, the acts you have form must involve sumething searhan simply oping through the motions they must represent a creative rescores to real hunter needs.

spokes to real furnire neads.

If you pass increases presion on all you pass increases passed on a survivor concentrate by handing limit of lies are located and a large real as beautiful or a large real as the rease and all passed on the passed of large after you've gone. To firmed withou control passed may be passed on the passed o

Sleep Better On Air





tons, the concept of a dwine creator is an integral element of aprituality. Whether this creative force is embedded in the orthopomorphic form of a solitary god, a consentum of gode or an imperiously at universal higher power, individuals are often occursaled to seek a sense of their portractedwine with the consideration of their portracted their power of their portracted their power of their

when correctedness with the center as the only path to engineering. Doe yild as designoring an early proposed to engineering the control of t

"god" yourself. Envision the universe you have "greated" in as much detail

se possibile if your personal universe were to have a methicitogy a philosophy, and an overnding ethic, what would these bu? After you've virillating your own integrand creation once more sense your consistent to be universe we related, and gradually

Day 7. The Seventh Day, In the Bibliosis book of Geneen, God spect and days creating five used and resealed for used and resealed five used and resealed five seventhe intended to help you set still send focus—elegandasis of your religious weapont—on the natural and creation application of the world. To practical this intended of their world. To practical this intended, choose of the world.

Take note of the payement that has

or causable in selecting problems are development ones the outside of a city. Your first inseason is to observe the memorar which human-bumps have allternised to overcome the forces of natural problems. The companies of the tare first shared, pay statement to this a territory of the companies of the territory of the territor lack all around you and the bridge thave been erected to overcome stural boundanes of your immedi-

Your second mission is to locate exdence of nature is revalable ability to overcome even the most conceiled through exsistence the condes in the sidewals, for example, and dis minimize it must be expensed, and dis minimize it not in every available crevior. Notice artistis and spider webs. Cleaners will be used to the minimize of the transitions for existence among the furname build and other minimizers of wood-leating ce and hadden microorgateans in relieful existence.

men who heart of the industrial asmed is region by you may be supported to cascoder your environment assets to cascoder your environment assets to cascoder your environment assets who childrengs plassing or force of a seathers between in this stood intellitial plants of the stood intelligence that Foots on heriting they often overbroked regiments of evidence of an undelying altissic creative force at work in the universe. You might for exemple logant flowing between it in an unexposed location, the strong sith-uset of a chiefsent first specific powerful or a posterior seat their specific powerful or a posterior seat their specific powerful or a posterior

architectural graps

have chosen. A park bench would be suitable as would a shady spot bemark an oak tree or wire a stole at a sedewalk cab. So quelly and imagine how your local enforcement would lock of instance were although to take the course without human interventional magine with your createst survey and the properties of deat an execution of the properties the properties of the properties of the properties the properties of the properties the properties the properties the properties the properties the properties the properting the properties the properties the properties the propertin

To complete this exercise go for a vivil and immerce yourself in your surwell, and immerce yourself in your surmundings as you move from soot to your unique harmful for behavior your unique harmful for the status here as it through your your your here as it through your your your here as it through your your your consists, tell Feel your personal returning to this re-paidwire forces not do the institutal universe as an whole Finally your did not not replicing your creative personal more replicing your creative personal more participation, and put your personal personal personal personal in new and readile didn't draw in policy.

or take artistic promorachs, DO



We fully expected the industry praise. It was the mating call that surprised us.



Already the Minoita CF-80 digital in full-color copier has been halled as "pacture perfect?" and "a stantang or

approal. And who can then? Minoba's outles farming Modelmon S (LIMOS**) good falchy and image of males cover you a bell cone colors. And that is just the begaming. With Missolis's code use color test mode, you con exempter eight different color variations at the same time. And when combined with a companie is powerful new dimension to yill your computer based discussions. In remorpher, that ought to be enough to get impose worked up. For a demonstration of this or any of our Bustness Color copiers,





French by stourn wars—before and sense—but it need to find out if some appeals she that I'm dating was set one of those thmos, just one of those one- has been using somebody else's dirty needle or has zy flings the two of us alone on a New Year's Eve, make noise and pretend we were having a good strangurs, and spending more money than we had Go jounting through a landscape trying to pick up a little invader artistrace brio-a-briac, and come

to waste. And we drank a little too much cheep charma few times too many and we wound up on the her skirt, and her hand down in my skints

know I werd majors in other peoples' minds only

Sito into the thoughts of the best person who evor Ived, even Sant Thomas Agurea, for instance,

Trust me on this. I go into somebody's lendscape when there's nothing else I can do, no other possi-

got it in his head to set me up so I make a mistake and look bad to the boss and I find musell in the I'm a wrack for wooks after

away no botter heeled, but all muddy with the guy's man for class. Call told by a motol dock class that they'm all full up and he's sorry as hell but I'll sust have to drive on for about another thirty miles to find him to up with speci more that not a lot of the when I are closely hard no other year to make a high an hard its prendynother has a bloody nose. burs. Or I forgot mised and did it in a moment of and usually have to hide out for three or four weeks. to hold it a moute Tom or George or Wille, and I get smacked in the mind with all the gartic he's told him it was good for his avalem, and I steet to of transport and when you come out thing discharge, and I weensh out of the landscape, and my word for it-you'd want to take a long, intersect not only have I messed the bus, but i'm so sick to my stomach I have to set down on the fifthy purb to

get my gorge submerged. Jaunt into a potential erruiknes, to see if he's trong to lowball me, and I learn he's part of a message cover-up of redustrial m most and midwell and mostly must be replaced by I not by combal mountain undergoing and take

ILLUSTRATION BY MEL ODOM

A NOVELLA BY HARLAN FLUSON

thousands of feet to streeting destruction. Then just try to acyen't good your nint in a

ley after alley tracieng me redone by my leaky shower prely bucks higher than the estimaso. Or in a moment of human

But I'm a wrock for weeks at

ply can't, you absolutely carried of a sheep or a hedgehor. In a moment of human

remember back. Eve bows damp it smore I was five or six years old, maybe even younger—there have only been eleven maybe twelve people of all hase who know that I gan read minds," that I've permitted myself to get close to. Three of them new were my mother and father, a pair of sweet old about me even on the Other Side), and whom As this. The other orang, nine were either so turned entire country just to be on the safe side, although her thoughts were a heliuva lot more boring and inno brain me with something heavy when I was distract ed-I still have a shoulder separation that lots me for two days before it came—or they lead to use me to make a buck for them. Not having the common the special in make party room of somme safes in-



Now they was some clumb-

it against me, my morn and ded the lest was Alisso Poohe. in the middle of Clariton, Ala. barris, squeezing ketchup osto interlucie, with Harpo and his

Till socher have a skunk She pulled a repkin from the chrome dispenser

must have been a Riller when sherunbottled it at Jefferson County, with her office in Birmingham. Alayears after lapying had quite a bit of champagne.

human weakness. Which is not to say that it wasn't never did slepsin, and we never brought it up appin after the next morning when we opened our eyes Jessenural the same time. Never brought it up again to meet her hullway, after her pocular telephone in-

Caritisavihe Invock, Mr. All-American, was pertoxicity happy at the pigmentation arrangement at Cooungie @ 1993 by The Krimenero Corporators

ed Times change on the outside, but the inner landscape remains polluted. a chat with him," she said. She cave me that look I have a hard lime with is it entirely disrigenuous. It plays on any remembrance of that one matri we

soont in bed. And is just dishonest enough to play or the part of that right we apent on the floor, on the note on tub, and about rineteen minutes show in a walk-in clothes closet that part of the memory

fring about me that could get me "I don't want to go have a chal with you've never tried to use me shit, and I have better things to do with my time than to go on down to Atmore electric chair, including the original "fellow Mema' they scrapped in 1990. shedo much lighter than that quone onto right this mirrute, which is to say that I ure of fixing negatively in his body, am-

on, thenk you very much Yeah I'm Areshed Case closed There has to be Somewhere Go.

ardy Some 900 number autobox proassistant who's been trying to get legof builthit research? What about the Runsupply now that the Evol Economis foli-

on, you ought to be able to get some word about their success with Kirlein auworking at 'Or you could-" She screemed at the top of he lungs "Stag of Rocks" The fry cook dropped the aparula

his pounter. But I showed out of his teas it aidn't read his mendi said if that

whise brigh makes one more noise i'm I gave him a look he didn't want, and ready for the after-work ground. But the stretch of his back and angle of his

head told me he withn't comp to let I leaned in lowerd her, got as sen ous as I could, and sust this crienty uel the ootly I said, "Ally, good pail Issue to me. You've been one of the for feel like a freak. So skew I trust you I

> Henry Lake Spanning was a monster.

machine without

a thing we might call human 9

"Till now The is the first time And trip to Weges or Atlantic City and triking a ligarit into the minds of some high-

She looked foring "There isn't any body else. Ptudy Please

ing aboutpassed at me. Her voice spettered of the works tile walls. The trycook sourchannel away the storm clouds, and supretto brook out back Fortunately there were no other patrons of the old-

She was lyng, hiding holding some

"Are you reading my mind?" she "Don't mast me. We know each oth-She looked chargered. The violet of killed. You've never betrayed me, and

But she didn't go on I wasn't going to be outfleshed I waited After a while she said, softy, way soft I never expected that I couldn't even

able. She was the Chief Deputy D.A. ning for murder Not just one murder, one random slaving, a heat of the mosbie by electrocutor in the Sovereign al slaughters in Alabama history, in the mer universe that went weding hip

ring had butchered his way scross a half-dozen states and they had

aduld be easer to understand then daing something so vile and inhuman lock would get more explicit than uned their dragnet and somehow he how he slapped into that neighborhood

when the legislant was out creating smoothed down the rippled Arcro-Turl.

wife and two kids. Also the family call And then he killed a couple of more by then had gone so completely out a his mind that they got him again, and and they brought him to trial. And All-

And oh what a circus it had been Trough he'd been caught the second time, and this time for keeps in Jeffer was obvious he was the perp) in twenty two of the sext-seven courties, and evwere the other five stales in which he

how managed to cope up to the Altora legal precedent. Attorney General of the state of Alabama allowed Allison mutsple bill of indictment that forced Someone to stand trail on all twenty: state's reghest courts that Henry Lake present dunger to security that the prosecution was willing to take a chance Alabama There, siting on Death Row, managed to smooth the feathers of all she put on a case that dazzled everyone, including Spanning's de-

shout the legality of the multiple bill twinty-rane counts. Then she got real-/v fency in the penalty phase after the V identical trademarks, from those othwit but to sentence Spanning-essen Safy for all 97y-ser-to the replacement for the "Yellow Mama

Evan as pole and power broken

throughout the state were murmuring Ai-

volts of pure sperkin death in 1040th 1/40th of a second that it takes for the brain to sense it, which is-if you into more than three times the 700 volt sol lethel dose that destroys a brain, for a cus-bac We Henry Lake Sparsons

uled day of departure was very nearly Lake Spanning this toutness this corwould end up as a pile of fack That was the guy that my pai Alleon Roche wanted me to go and "chall with down to Holman Pason, in Atmost

Spanning was slated to sit in that new electric

chair in Holman Prison 2.640 volts of pure sparkin' ripoth in

1/240th of a second 9

sured, his panta legs sit, his tongue Allison wanted me to go "chat" with one which creature had an infinisity creat ed. Go chit-chet, and enter his landaveil ability that has made mo a burn have a decent apartment, and I do earn a decirct of sporado, famo, and whose troubles are baper from my own. and symptoms I aven have einer of my chair in Holman Prison, built by the was not the case the Camaro having

you but a burn in the sense of-how akze my full and forceful potential"-a ar education and a pair of kind smart. parents—who died knowing the contain able to make a comfortable living or consummate a normal manage of name chil-

apacas i personal horror . . . this astonstyre ability labled in some and story seems to possess, though I know there must have been others, some-Wander of Wonders, shrong black Capiostro of the modern world, go with this been trying to prove exists for at least to scripte the way I me. the crity one has been isolated, let me tell you I was here was't Rudy Pers 14st

a guy, making a buck every now and ident of thirteen stance and below that many cities so far in his more thirty wars of isratecape-suntrio life, bere Mind, being asked to go and walk asked by the only living person, probto say no. Was, in fact, saying no at exary breath. What's that? Will I do it? men and sount through this sick bassard's mind landacape. Sure I will You All of this was going on in the space

somehow gotten involved with him. Al-Ad Not some bimbo bitch ... but 49 Not that it was unusual for women to

jord, to fall under their "magic spell, and to start corresponding with them vistors from teking them caprily and on areties, having consugal waits playing mule for them and smuocking in door

where the sampon mover allives, willing where the sampon mover allives, willing the control of the sampon services and increasingly dependent combonish as a sampon service and increasingly dependent combonish and increasingly dependent combonish of the sampon services and increasing services. But one surround surround services are serviced in the services and the ser

and the parties and care of assess and burno barons. But one surry night-be, gorne-happen pirk (doub day these demented creeps of the parties of the parties of the back in the wind, become upstanding inter-to-the Boosis (Boo Galshass). Ever years hundrods of somen many receipts, redding hermothers in a lot receipts, redding hermothers in a lot receipt of the parties of the parties of toos, matterfucking lying greaseshallad solder the behavior of guye who had solder the behavior of guye who had solder the behavior of guye who are parties of the parties of the parties of the good the parties of the parties of the parties of the good the parties of the parties of the parties of the good the parties of the parties of the parties of the good the parties of the

specified rear sponsor, years, year mister freedom on the outside, doing jost their roping people in, roping people off bleviading people off, committed their severy least, sets, and their heart severy least, sets, sets, and their heart severy least, sets, sets, and their heart severy least, sets, and their sets search, sets, and their sets of least sets of least sets, their activities of least sets of least sets of least sets, and their sets of least sets of

had dammed near pulled off a legal exposability cores that down to tibezso. Justipoutained by putting the Attaroyy General of the other dates in a maybe frame of mind where there is have been able to consolidate a mil-pale bill of indictment across states since Naver been dones enclosing public sizes Naver been dross sent ones possible public of such as your and state of such as your and such court possible public sizes of such as your and such court from the public sizes of the post of such as your as drow what a mountantity for call sizes when a mountantity for call sizes of the possible sizes of the possible sizes of the possible sizes of the possible sizes and th

first lief. So, now here's Ally saying this shift to me. Ally, my best pal, obcol up for me a hundred frees, not some dip built the steely-dyned Shariff of Succide Guich, the over-forcy past the age of innocence, no-nonsures women who had soon it all and some way built but not cynteel, that thus not meen "lithriff ham to low with him. She had

said
"I know I believe him when he says
he's encount "She had said
I looked at her No time had

and the position of the service and the servic

"Doesn't your 'women's intuition' tell you he's squeezy clear? Don't intue love' walk yo sweet young ass down the primose path with sufficient autofacturess?"
"Don't be a smargass!" she said.

"Don't be a smartassi" ste said
"Say again?" I replied with distulct
y
"I said don't be such a tigh-verba
goddarmed ameri sletck"

Novi / was shaamed "No | shouldn't
be a smartass; i should be you pony

your show day, your till be not hap, mindreader from? Here a division over to Holman. Plans, go ingit on not Rechaelou. How with the read of his no great and have a dool with the cost while buy past three years or so, at cown more, with the king of the fullowing varieties, and sides made in a getting off a a brain—and what a joy that for the land of the sides of the sides be I can't believe joid ask mat be dis—and read whatfleer proce of dis—and read whatfleer proce of

what I ought to do, am I correct? Instead of being a smartest. Here I got it right? Do! properly percel your meaning, pal? She stood up She didn't even say Scriew you. Plans? She say I stopped me as hard as the

She just slapped me as hard as the oould. She hit me a good one straight across the mouth. I felt my open the I felt my opper teeth bits my lower light I sained the blood. My head rang like a

dam sloti
When I could focus, she was just standing them, looking schemed of her self- and disappointed and mad at hell and womed that she'd brained me. All of that, all all the some time. Plus she valued self. I'll having her chose here.

oked as if I'd broken her choo choo et "Okay," I seed wearly, and ended the SEE WHAT
DROVE
269,369 ENTRIES
TO THE
33 OMNI/COMPUTE
TREASURE HUNT

275 HORSEPOWER.

325 LB.-FT. TORQUE.

6-SPEED TRANSMISSION.

OCOQUE STRUCTURE Diiai air bags

D A CUP HOLDER

ENOUGH TO HOLD A SLURPEE?

PAGES 72-73
THEN
TEST DRIVE
ONE AT
YOUR
NEAREST

way back into my hip pocket "Clkay cutm down 11 also him I'll do it Take it easy." She circh six down. "Did I burt you?" "No of course you." I shall a mathe in

She alon't sit down, "Did I hurt you?"
"No, of course not." I seed unsate to form the armid I was trying to put on my face. "I hav could you possibly hurt some one by knocking his brains into his lap?"
She stood over me as I dung precan-

Das also de earm as el charg prececiologio de la Contraction. Lamba chartiero, burnado chartiero, contraction de la contraction de la contraction de la contraction de contraction de la contr

So I, shrugged, and spread my hands like a man with no place to go, and I and, "Hawfo' you get into the?" She got me the hart fifteen muses of her togot, hearhearing, new-a-binducided story offi starding Mark fifteen minufue I saut, "Fire christealings, Ally sit loost sit divertify tou look like a damead loof standing there with a greasy naplay in you mit."

A coopie of teaching-pair hist come in the few ears of the few

hardy gentleman of the colorer sion if he allowed himsel swayed by a cagoy and cog of and concupisoent female of color antisely.

See what it is is the

son Potche is? Pby heed, now. In New York, when some warmable unor ad once has smoothed enough but to get trested abone cocent, and he wants to walk his colors, fires a need to againly has got to demonstrate to everyone that he's get the justo, lived thing he dook. he has his as down town to Borney s. West 17th and Sewith, buys heads it a Buttery, loops the week, buys heads at Buttery, loops the

In Dates when the wire of the CEO has frome six or eight upper-management hugbands and wass over for an whose dates and other tests place conds same another first, same centerone and we no taking the kind of warn an who first Vignary and the Vignary of the Concords shall so in challing site don't got

collab shall be made a local collaboration of the c

I was facile, and a very quick study, and I had

buried all the equivalents to Ally's pains and travalls. I could have matched her in snades *

she could alford a harimenn that go good imported Catherlan bothing leady good amounted Catherlan bothing leady and a second of Comelons, a Burbarry breast of garness hen and Mouston Breakshall and Comelons and Mouston Breakshall and Comelons and Mouston Breakshall and a Door or Mighaes Petrological Comelons and Mouston Comelons and the ground the come of the ground the come of the ground the

construction signify quantities and was a significant of the construction of the const

up where she'd left of.

The next treatly stream results by the big grossy clock on the wall she related from a siting position. Actually, a zerola of string positions. She kept shriving in her chair like someone who

the in start plant file on the text who can be a start plant file on the text of carried start s

har to Assams There dougle have been worse places. I'd known Ally for a long time, and we'd spert totals of weeks and morths in each other's company. Not to mention the New Year's Eve of the Mark Bratheta. But I hack! heard much of the New Year's Eve of the Mark Bratheta. But I hack! heard much of the New Year's Eve of the Mark Bratheta. But I hack! heard much of the New Year's Eve of the Mark Bratheta. But I hack! heard much of the New Year's Eve of the Mark Bratheta. But I hack! A second much of the New Year's But I hack! The New Year's Eve of the Mark Bratheta. But I hack! But I hack! Bratheta. Bu

ed or something. What the hell makes us flink we're finends with anybody when we don't know the first thing about flern, not really? What are we welking around in a cleant? That is a say what the fack are

we flatieng(??)
And there might never have been a reason to hear any of it, sit this Ally that was the real Ally, but now she was asking the to go convertedner i oldn't want to go, to do something that

Samiding on slippery stones. Her story came forward to the point at which she had prosecuted Spanning had annaised and winnowed and catlegantsed the endeance or throughly so deliberately so favelessly had orcheotated the pass so belliantly. But the iutitated the pass so belliantly. But the iury had come in with guilty on all leveling not soon, an open party praise.—Thy are Murder in the first. Permediated murder in the first. Permediated murder with special uply concurrationed in the first. On out and every of the seen by virine. Loss than an hour trock them. There wann't even time to a launch break. Hely one manufact who them to come back with the warriet guilty on all charges. Loss than a minute per letting. Ally had claim of Ally had claim to the special special charges.

Ally heat store from the contion stores, which was substituted to make the first stores, who established to make the first shadow the stores of the stores

la Ascher's still-steaming body So

what? They could not have been such as the was the issue that is the time morale, the ranging nightmane whose methods were to vide find overage that over the same to vide that overage that over the same to vide the could be some small dock name for the like life Stangler of the Backgred Butcher. The just yet seek, boding as it they'd by a long to yet seek, boding as it they'd by an only to gail way from the same and heart of their minds but inthe "bay mane would," and withing to God they could's the mergage to gift and of their to-

colarize managed to get out of their to to duty on the once. They came challing back in and this the numbed count help, put the string enclude for a magget in the chall and couch less set if the six to right to and couch less set the six to right to load. This was the gay my bland all, both. This was the gay my bland all, both me the had likely in load with The gay the now bollowed to be impount. The was compaler care staff.

"So have ded you get, en un, how did you."
"How did I fall in love with him?"
"Nauh That."
"She clossed her eyes for a moment, and proped her leyes or if the had lost a foot of sequence words and delich know where to find Sham! This always known afte was a private porson, kept the nauf with the had lost the seal or private porson, kept the nauf will provided the transfer.

hall, will now if insert income about the mape, the ion manufaths between her mother and father, the specifies of brown beered been a husborn bloody, but now what that happened, and if I have have the properties of the properties of his busy that boom to there-even to, pathing the about of steaming continues out of the was also using your both to the properties of the properties of the Finally, she said, "I book over the case when Charles Whit Door had he as ease when Charles Whit Door had he

"I remember"

"I remember"

"I remember "

"I remember "

"I was the best fligator in the oftion, and if he hacht gone down her
days before they caught "

she paused had brouble with the name,
wention "

before they caught Somemention"

hach's been so worned about a cayor the size, and bound Spanning over to us in Barrangham all of it so test nobody really had a chance to talk to him. I was the best one even go over him were your was so chanced

was
"Hellucrating, were they?" lead, being a smartses
"Shut up
"The officer did most of the doriver-

under of her nodriff and went out both weigh thawed her own, then christed to the hairine. If discen that happen only to couple of times in deven years, and one of these times were when sheld fested at the open a Long of Lambourmace. I seed it appen "Spenisfy You're put-ing me on, right? You call him Spanisfy" The billiot descended "Like to like her last of the Last Keynold."

elmon, I don't tuckel behave the!"
She just glated at me
I tall the leughter coming
My face started twitching

She stood up again "Forget it Just toget it, olery" She tack two stops away from the table, toward the since exit. I gmitched her trend and pailed the back, trying not to fall again with laught or and i sed, "Ckey ckey oday." In sorry. I'm rearly and ruly bornest to goodness, may be struck by a talking space lab no kadding 100% abcolube sorry. but you gotta source.



mean, coste on Ally Spankyl?
You call the guy who murclered at least thysex people Spanky? Why rid Mckwy, or Roggy or Affalfa. —? I can understand not calling him Budwheel you can sieve that one for me, but Spanky???

And in a moreant her face started to

which, and in another moment date was stating to smale, fighting every microof the way, and is another moment the was laughing and awaiting at me with her fired hand; and then she pulled her hand bose and stood frest falling spath with faughter, and in about on minute the was string down again. She threw the balled-up rayen at me.

winnagras, and in about a finitive will was olding down organ. Set free with balled-up raspien at me. 18 in firm when he was a led," she said. "He was a fail sot, and they made for of him. You know the way kids are they compled Speaning and they compled Speaning and set of the said." A set of the said of the said were as hierarchia and in the filteral macality were as hierarchia and in the filtred filterals were as hierarchia and in the filtred filterals.

If Intily quested down, and made conclusing epitatries. She wached me with an ecasporate of warness till the was used I note of party in the same of the pleasing was the was the same of the pleasing was the same of the pleasing

Could feel appeal to the Eleventh Circuit

When he was dered a stay by the appoints, these ho was dered a stay by the appoints, these ho was dered a stay by the appoints, these ho nothing, they are consumed to the Aubama Supreme Court retains when the Supreme Court retains to hear his appeal; if thought it and over I linear they draw out of moves to this existing the Court of the area of the court of the

"When the Supreme Court wouldn't have it there would ago. I got a letter loon ten. He'd been set for execution next Saturday, and I couldn't figure out why he wanted to see nex! I asked. "The letter it got to you

Thought hey'd given up on heat "So ded I The wedence was so overwhelming half a dozen courselors bound way to get themselves excused a wasn't the kind of cope that would bring any litigate good policiny. Just fee ourriesr of eyewinssies in the proling for of that Wenn-Davie in Humbring for of that Wenn-Davie in Humbring for of that Wenn-Davie in the part they all see the search thing and they all decorfied Henny in Inseu pad they all decorfied Henny in Inseu pad they all decorfied Henny in Inseu They were the page 1990 of the search of the 1990 of they all see the search thing they are the search of the 1990 of they all see the search thing 1990 of they all see the search they 1990 on the 1990 of they 1990 of 1 "HARVEST OF STARS must rank as one of Anderson's finest works. When you've been a pillar of st for over four decades, consistently writing to a high standard, as Anderson has, that's saying something."—John Jakes

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hand against the oir said. She had told myself, she was so yeed in her talked

nouldn't even think about it. Not even

1 think you know that Inwest Lam

Alabama Lastinisture down to Mortnontimes before the Supreme Court? Exovilent gay. And not easily fooled

"Of everything" But there were into deleterested rep-

eloughters. Pithy you set each it. Pithy Sorian thinks he's not the cus, right?" She nocided Made one of those

"I ggroo with him

shrupped and nodded "Not the gua That's what Boriso thinks

some kind of officine! The littler is still who killed all those people, he's days

Alabams, weiting and wetching. And smiling." Her face seemed to see with said, "In four days he can stop griffing"

the rest of it. Borlan comes to you, and he begs you to read Spanning's letter "He didn't beg. He just gave me the

letter, told me he had no idea what Horme a long time, that he thought I was a decent, for-ended person, and he'd "So you read a "Frendship Sounds like you an' him

She looked at me with astonishment I think / looked at me with eatonish-

"Yesh, resily" she said, night back

from? My ears were hot, and I almost ers archeoretion for a lever why wast? knew enough to move along. Must ve

and having struck a belance in her who'd put you in the char to pey attennot the magic number of death. That

last children runsways, unexplaned disappearances, old people, coffere stubags all over town and death death start. And if she, her, no one ese, All-

ry Lake Spanning would help her Trict at first. Not immediately I was

always twichy when I got near him at the defense table. His eyes, by reyor took them off me. They're blue, Budy, did I tell you that "Maybe, I don't remember Bo on "

well to tell the truth, he just plain scared me. I wanted to win that case



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on Fernate, Michiganier, CC, The college's "York ordered conservation organisation



INTERVIEW



CHAFL GA77ANI

tw. at antenny trans medication had failed, W. J., 48, elected to have surcery that sovered the connections between his censbral hemapheres in order to contain his oplioptic secures. Caltech ment was to study the postoperative W J. The year was 1901, and the field

of human solf-brain research was born. Propelled across the country by his passion for a cirtisend in the summer of 1960, within months Gazzanica fell under the every of revolutionary nauroneutral networks develop and are requisted in their growth by innote programs. Sperry asked Gazzanias to find out what happened when the cor"THE LEFT HEMISPHERE: DON'T LEAVE HOME WITHOUT IT." DRAWING EDOM THE LEFT SIDE OF THE BRAIN A NOTED NEUROSCIENTIST DOCUMENTS CONSCIOUS NESS IN ACTION.

PHOTOGRAPHS

BY TOM TIMBEROES

crible of the cerebral hemisphe was surgically sectioned

Doing neuroscience in the 1950s mals or crossly brain-damaged hamail so his response to the surgery left's workings-and vice verso. had an independent existency. "So big dod," a psychologist friend area to Gazzaniga. "Now instead of figuring out one mind, you give me heal This is an advance?" But Gazzanica's

structure of the cortex, but the nature After 25 years of research, Germanpa subscribes to the mainstream can function simultaneously. But he alone among neuroscientists conwithin that confederacy that constischere system, he supposts, makes inferences about cause and effect hypothesizes, forms beliefs, fantasiz

zenige balked at telling his lather 1961, he received his Ph D. from Caltech in psychobiology in 1964. In 1989 the buight at New York Linuxon soy Graduata School, then Comail University Medical College where he Institute in 1982 and wrote his first Brain in 1968, returning to a profes-



eversity of California, Dave

that never seems to despose

etyrane percent of what ou

not available to us in terms of soxuaress computatives." ON INTELLIGENCE-

> of specialized systems that them are in your by Mother Nature

WRITTEN: Naturals Med (1992) The Social Story (1969) one Listening to colleagues, extrem; after forms of intellectual energies and sharing ideas (as well as restauof his own. Nature's Africa grew out of people from different fields (including But back in his office, he drew

physics and immunology) at which "lending expressio and took notes." together evolutionary bislogy, ganet any of the mind's inborn potential. The higher functions such as language, abstract reesoning and computation de sonary selection. What we consider learning, he writes, is the brain's pickpropriette "White the environment en organism develops." he says, "Y shappes it only as far as preexisting Thus the environment selects from the built-in options it does not modtion theory Gazzaniga is forging his ting rid of it." I find it almost hilanous

son who also feels twelve in his lab were printing maps of the moved again, back to California, (Per-University of California at Davis, he

-- Diane Corners

"PEOPLE ASK, 'WHY ARE YOU TAKING THE MYSTERIES OUT OF LIFE?' IT SEEMS TO ME ONE WANTS TO KNOW WHAT A SPECIES DOES, WHAT IT REALLY MEANS, KNOWING DOESN'T MAKE YOU ANY LESS A VICTIM OF LIFE OF ENIOVING IT "

into Messo to piete relicence of light IQ. Simply send your name, address and a mantaned photocopy of symcerificat come, pins a 200-evaluation feet of wherence Messo Ball, Jugg, 1912, 2015, Earl Ball III No., Brooklyn NY 1123-1990; Ct., for a more complete list of the tests and sense we accept, order our free brothum by calling Ballor MANINAL, ord Str. 2012. Think of it as the my-pressure way to jum Messos, And cargo lots of your directs, with the of melligest, amenting reportly. opheres offer from each other discussing Mr (ref. space, been of her in 10%) was the dres does do the mean of the first and the space of the first against the dres does the first against a first against against a first against against a first against against a first against a first against against a first against aga

part that does that ... "You couldn't loss with it. ... Now, some thing in the right brain does recognize upright but not upodedoen faces An evolutionary chop in trere is not of saying. "Soy be quick to respond to an upoght inco." On the other hand the left harresphere had a

hell of a time with the task, which suggasts listerialization is very old. Most right hemispheres lack lancuspe Nature not of stuck language.

sociodest and nature public briguage in the right of the regist formation and the right of the register of the residual and register of the residual and register of the residual and register of the register

One: Can the right homosphere contractive several relationship of the could be could relate to figure out of decisionship of the could relate to figure out of decisionship of the could be could be

> lationships and therefore make interpretations about the world

smart and the dumb kid in class. The dumb kid defect to the smart kid and never learns. Disconnecting the hemspheres shows you how dumb the

Offer is there any point to developing exercises for "strengthening" the right hemsphere? At the bookstore, I saw the unspeech porting of Drawing or the Right Side of the Brain.

cognitive expects of thirking and perception. In a normal brain, left and night are a connected system and fix the system that solving the problem. The lectricipus argued for in that book have been around in air for years. Stripped of all the little brain potter, it has been seen seet better Other. What about the night hemsidered signal article staffing?

Cleans: What about the right hermischeels disposed ontools oblished. The scheels disposed ontools oblished in the art of the all Harm's a stack of startings by one of our spit-from potents with the right hand, but have private of doises brightly partied, metabubusly doise the spit hand, but have been do the spit and productured, shared as Avutang—this from the hermisphere shall. In the spit and the shall be developed to the spit and the shall be developed. Charact What shall be shall be developed. Charact What shall be shall be developed.

Gezzariga No. In exploring the capes tion, "That exist like life the first deal with biddless's that you can produce from the that the first moments in this besting you self the right tions to go for a seal. As the upb biddless post self-tion post for put googs." Now yours taking to the you googs." Now yours taking to the you googs." Now yours taking to the you googs." Now yours taking to the seads. "The left train in bearing at the seads." The left train in bearing at the seads. "The left train in bearing at the seads." The left train in bearing at the cut that you end cong comething and fault got to come up with an extration that makes asked in those that the produce of the produce to the produce of the produce the produce of the produce the produce of the produce the produce

For sensua perainted emisternal sistem—afeira emisco, deposero o ophora, o pano absol- me insperied emis figure o diri privati bears o marti gare o diri privati bears o marti gare o diri privati bears o martinogene della propositionali diri propo

ing disturbed states of mind and for



CHILL

treating mental disease.
Own: If the left homisphere is damaged in a way that knocks out the interpreter, and the right is intact: what's the resulting defect?
Galzzariga: Traise patients are no longor membars of our species.
Own: What is the resion of the for the

right harmophane then? Why bother with one?
Gazaniga II does manage serious your control for the infent left haif of the body. The right haif of the body. The right haif of the body the processor to basteridy monitoring alternative I also call it the right haif the processor to be a call to the processor of the control of the call to the right haif the processor of the processor of the processor of the deeper your disjustices of the freeder of such substitute of the processor o

The night hemisphere is specialized for that If is a log.

White done come studies on memory. Excalcine Physics, now at falle showed grill brain patients a story and then inside each homisphere. Blooming people are solved more hours likely for opposition parts of the story, we shall be suggested and a solved more hours likely to the story of the story, we had to suggest parts of the story, we shall be supposed parts of the story we shall be supposed to the story of the

dath being palents show that the right dath beingshere doesn't do that it says to in"Nat, hope parts weren't their That shall be a don't happen." The right hemsphere has a ort of "hembed" immorp, hope doesn't embodism on life's experiences. It hards you back wast you hand it or the offernit Where in the brain does the inother transfer reside?

In which you can't what you may a man on the interpolar residence in the control of the interpolar residence in the list harmscare in the yound that, you start playing a chase great in the course may very temper produced in the course of the course of religion of the models caused and the course of the cour

their chinges, who helve dut a singley of the media either about his mediaor you, don't make information, so it's bore suggested that their interpretarces alon YET, student of water or their stame region. So the nation develops that meny clinical participates are in part clisiones of the interpretartion in their control of the chargest client in the interpretar involved in loglical through procisional?

Gazzanga The hemisphere that an doesn't have it is lowy at misking references—as bow he miscratter medi-

arism seems to be deeply ted to the capacity to make inferences—to tigure our beyond the moment what's going on and why it just occurred. Deter is the interpulser the what, lookman security of as own fartasises, mak-

Others. Is the interpretate the sitest, looking recursively action will fastisse, making receitable yout of inner visions?

Glazzanegin Cris in entress: and considerate of the control of the sitest, and if you selfs then sites you find the sitest, and if you selfs then sites in fastisses, and if you selfs then sites in the product of the sitest, and if you selfs then sites in the product of the sitest, and if you selfs then sites in the product of the sitest, and if you selfs then sites in the product of the sitest in the sites in the sitest in the sites in the sites in the sites in the sites in the sitest in the sites i

If, your air gets bet bo.

Genro Does the interpreter function as a mythmaker about self and neekly?

Can we aquate it with mind self it is funcioned to the self-and self-and

de you mean't the ability to state Haswell's vagarinos? Weel you meanand philosophies have horse the late years—to be being about a stall for years—to be being about a stall for years—to be being about a stall for name, and the stall of the stall of the specialized of the second stall of the specialized capacities. Experience about these opposities (Consciousees being, and the associated being about these opposities (Consciousees weel computational colors for the conulating being a sbout all these shifts and necognise that they have a delingment of the second of second secon

nothing less. The interpreter is busing farmy constructs along with the embored dynamics, so there is a conduct pounding of consumments all day. How do your leaf? What is your sood? Is a mod a summing of all belings obust those opecialized abilities? Maybe With mis 9800-dollar alponess com-

With my 9000-dolar Alponese comsal. I silke a pather of hist meadow. The commanies before vicen that of the old does these feeling about he actbut does these feeling about he actthat system that does vision in my log contre back here Wet es collection of these systems and before that of the old of moving back and forth at doy, merula to mental second to second. Other thinds the service visit of control thinds the service value of a system that constantly appear feeling to Clear thinds the could start observe the Glazarnese No could start observe a



That All, area you gat and to from you such home you have from on."

Gene There are produce which come of Generating Water, and Only to the Generating Water, and Only to the Generating Water, and Only to the Long Water of the Committee of Long Water of Long Long

ing tapes that teach you to speak Turk-

and of insulaming depression. That is a waited from a manage depression. That is a waited from profession for interpret in a But most of the dame. It is just undergo or commits, distinguishment dates, come to about shall the world's like of the build of just work. Describes about shall the world's like of the build of just work. Describes in the build of just work. Describes in the presence, it is a flag structure allowing for communication buttered his hermorphic profession of the building of the committee of the building of the building of the building of the building is strained along the form of the compact of the building is strained as the part of the compact contains a managed to be for the building of the building of

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Some it has Subinmary phenomena are related and project participated by based with the participated by the

sponse is completely symmetrical. Peosmile tooks guile different than when it spond in a different way When they fuller has a dimension of errotionality Ome: Why a separate control center for these voluntary facial movements? Gazzarina Basically I don't know But who says. "I'd really like to look this guy smile " But other times you want to sponses has to be evaluated by the system the one that says. "Go ahoud Gazzanek That's the standard linecallosum make heterotopic connec-

When you also for solutionly critical of insight more and insight more indicated and insight more indicated and insight more indicated and insight more indicated and the lower half of the face responsible. We not the first face incident in the insight more efficiently to the right less of the face than the option the insight more indicated and insight more than the part of the arguments. The face is not incident to accompanion to the part of the insight more indicated and i

reduced. The lead of information has brandlers correspond to particular are eas in the database. Plancular inseed or particular things. But there's variable, a particular once may do a different brang for left. Joseph dan 18 Cesth. The particular area may do a different brang for left. Joseph dan 18 Cesth. The particular area of the Cesth brandlers are organized. But once you're looking at the brain you can begin so understand where that brain sends a pachaliar antomation. Others, this middles to your studies with Catabase and the control of the Catabase and the Catabase and Ca loss, the car unevenience of the week pink in 18 (19 cot 4 X year) that when pink in 18 (19 cot 4 X year) though and 22 year) dishrivery respective conformational pink year power of the the pink year of the year of the

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how DNA in growing neutrons is expressed, which ultimately controls development So is the brain intelligently guiding as own growth? Other If Incural pathways are biologicalby predeterment, you're suggesting a new delinition of Neutring.

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Gazzariog: Were big on the brain map

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HISTORY

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The fallout from this clash of views

CREDITS September 1990, outp 75, and by Vector

Comment of the Commen



AUTIMATTER LIFO LIPDATE

Thanks to glasnost, Russia's secret UFO groups can now collaborate with colleagues in the United States

Paul Stonehill was just eight years old when he met the retired plot who would change his life. While flying over the Russian arctic, the pilot told Stonehill he had seen a disk-shaped craft Iv that his crew opened line gan a lifelong quest to em about UFOs, especial ly those sighted over his



intrigued, the youngster be After emigrating to the

United States as a teen, Stonehill kept in touch with other Pusseum interested in the Soviet-banned study of UFOlogy by smuggling messages through friends. Now a 34 year-old executive and naturalise Lotizer, Stonehill says his natworking has put him

in touch with scientists, military personnel, and UFO witnesses and investigators all over the former USSR. In fact, thanks to plasnost and his recently ex tablished Russian UFOlogy Research Center in Tai zana, California, Stonehill now openly acts as laison between UFOlogy contacts in Bussia and the new Commonwealth of Independent States and counterparts in the United States. "I want to provide Amer cars with a true picture of UFClogy in the former So wet Union," Stonehill comments, "and I want to help my Bussian collectures discern between tebicid LECE

gov and senous research Toward that end, Stonehill reviews hundreds of Plussian UFO cases a year, calling some 60 percent "genume, backed by witnesses and hard facts " in fact, pe ing together information from his Russian contacts. hill says he's come up with evidence that UFOF ray was a focus of the former Saviet regime. For lestance, when a large UFO allegedly plummated to Earth outside the city of Omsk in the late 1980s, the military reportedly moved the wreckage to Moscow set academics have confirmed that it was taken to five secret state research sites," Stonehill maists. My sources say the Soviet government con

from this creek," Bassed on research by underground Soviet UFOlogists such as Anatoly Cistratay, Stoneful now also suspects there Meanwhile, when

nes to fastering commune cation between Russian tonetill isn't alone. For

pendent States) Arnal Anomaly Federation. The Fed enation, including flore than 160 groups throughout the United States and the former Soviet Union, w sponsor yearly meetings, translate UFO docume and encourage collaborative scientific resi UFOs. Haines is also studying the difference I silen abductions reported in the United States and the former USSR After hypnotronig a number of Russians in their native language, Harnes has concluded that the "stories are basically the same over there, except that Plussans tend to describe aliens taller than those in the West."

James Oberg, an expert on the Soviet space pro-gram and punish on the UFO scene in the former SSR, however, takes a dim view of UFOlogy as pracnt States. "They're often weinder than the woirdest American group," he comments, "because they've been living in an information vacuum for so long."

Stonehill, predictably, disagrees. Russian UFOlo dists need help, not criticism, he states. A case in a UFO hovering near Odeessa last year "Russian UFO) ogets need state of the art research tools," Stonehill concludes: "They need mone visits from their Wastern colleagues and fewer debunkers on their backs."—SHERRY BAKER secret research based on the technology devised



AUTIMATTER



Theodore Modis doesn't crystal balls. But he does future-and it's shared Scientists have long

noted that graphs tracing flourishes and declines in menagement consultant and author of Prediction mon & Schuster), "The

By plotting this natural yowth and consulting its winding pattern. Mo asserts, you can predict economy, the spread of the output of a creative

AIDS. You can even grap revealing a beginning naturity, and decline. "Mozart," shown above "may have died at 35 because he had already

readed by past disease AIDS will follow the same pattern and decline

nent is found "Society. issase and lights back," fodis says, "The disease ins phasing out. the hallway point on the S-curve, a drug or

he S-shaped curve is applicable to so many subjects because there's um behind Me. Modis contends—a "cosmic hear sbout every fitty-six vector, "-Shorry Raker

must be proportional to the To some, it's a low others, it's a continuous mont. But whatever it is. this low noise at the very lity is driving scores of

New Mexicans bath Done Renns, a Melone Albuquetque res first heard the hum in October 1983 "At first it gave me headaches and act me awake," sho Sibes, "There based been a snoo a first began According to Albuques

After studying compara- | que Water Department electronics technician James Garner, "Two heard northern New Maxico " In 1989 and 1990, Garner fion detectors to prove that ment wasn't causing the sound Garner then used the same equipment to conduct suphisticated tests of his own. His conclusion: The noise is

caused by seismic slaps, or small earth moveme The trouble with the theory, says Joe Mullins. charmon of the University ment of Mechanical Engli neening, is that "people are hearing the sound in Fort Worth, Texas, an

area that's near northe the mountains nor setamic activity," Still, Mulins isn't ready to rule out anythingnot quite ye To investigate further, Mulins now heads up comprised of scientess m the University of New Mosico, the United States

Air Force, and Sandia and Los Alamos national laboratories "We as highly sensitive seismo, electromagnetic, and socustical instruments," says Mulins, "including some from Sandia and

nuclear-verification work. anelyzana our findings now. We're also bringing xico physicians

I in the early 1970s in Great Britain attributed the British hum, in part, to an accumulation of industrial case here," he says, "ther

It's a common fantasy You're frozen after death ton—later on. But if the government of British olumbia has its way

chizens of that Canadian

THE CONTINUOUS HUM, AT THE THRESHOLD OF HUMAN AUDIBUTY, IS DRIVING

and others just don't. At Luckly, some people continues, "we have to cape with the noise "I According to Mulitres studies of a smitar says Banas "Now I'm us phenometical conducted used to it."-Anta Baskin

plains Paul Snickers for the storage of human ics. Cryonics is utpro

on such cooperation are ill-defined. Adds Bost, gies. But they can never small change in the language of the law, Bes asserts, would help his

But Ren Rest, news letter editor for the the government rules are vegue. "There are no

dreams. The law someone can't sell he law sav cryonics procedures w tion," he explains, "The Cryonics Society would like the law changed to cryonics procedures wit mation. In fact, cryonics

that the technology is

nsk."-Anta Baskin

unproven. I think people should decide for them-solves whether or not

mones feetles it must cooperate with cryunics organizations in the United States." This poses a particular prob



OTE

what I mean even as I write out what I think I mean—"meaning" is like a year low taching and and all it is present and all it is absent. The follow Armanian chants, "there are on yearly because there is no really be

ny parighotowal cawar a no navary be ny parighotowal cawar a camana a paga paga a pagadoni. Morror a sigficial 18 metal a paga dan a paga paga ang paga ang paga na paga ang paga ang paga na abanda unavar ang paga na ang paga na abanda unavar ang paga na ang paga na abanda unavar ang paga na ang pa

down and talk to each other Actually

"deed men" does the talking. The boy

uses, completions, and ways-gain. When I do price questions to each of them, the questions discolate in the act of saling. This year enableses. Do not always this year enableses. Do not always this year enableses. Do not always this year enableses to cold care abunded as made in the bay once was. Through distinct and square and with affecting the despread well walls, the threat office are the same person. Or we expressed the same person. Or we enthus a signarian habition that the properties of the same person that is where as it is not person to the whole as it is not person to the whole as the same person that the same person th

income the desire where a square period of the control of the cont

old main is just a product of my single mation. Am I gloring to spend the week is shadolactisting with my own psychic ma shadolactisting with my own my ownor shadolactisting with my ownor own one of the mating shadolactistic mating the imaginations add—a rich, complier is and visual. "Anoxing"? I smooth shadolactistic week in an imaginary "justical social," I select all the "seal smooth and for disted at the "seal model" and ford dis-

by "mail" Broadcast left CRP Clarinous ance channels of get the otherwise more channels of the equivalent of deep lifecture 21 is the equivalent of deep lifecture 22 is the equivalent of all the single, provine fully weaks and consonas According to Mannee Focus 21 is the bridge between physical and nondrigated resalty, I climb up through the levels—Focus 10, 12, 15—and support the bridge 1 Trock cut" and the levels—Focus 10, 12, 15—and support the bridge 1 to the cut of the levels—Focus 10, 12, 15—and support the levels—Focus 10, 12, 15—and support the levels—Focus 10, 12, 15—15.

out, beyond Pluto

by body literally bugan to convulse

for body literally bugan to convulse

of I were being administered electrostrick thisneys. One surpe of anneys ofter enother moved through mo I heard
vocate saw light and colors shapes
and forms in 21, we throw questions
to blank spoose and literated for a respoose Who am I? Where and who
was I before I entired this physical

and forms in 21, we three questions this blank posses and lettered for a response. Who am I? When and who was all before I enterted the physical was all the properties of the control selection of physical mater? What action can I now take to best one the land proportion resistance that I can receive exportant message that I can receive exportant message that I can receive selected? The increases' were auchle schooling that I can be the control of cont

butlengthistic Who was speaking? How do in interpret the answer? I clorift know. Later, I profiled up a paper well-and by F thomas Answer, circular of the profiled profiled the profiled profiled the profiled profiled the profiled profiled profiled the profiled pro

lives-in order to get out of bod every



Interes ancenar panar or wesanos superio nare to see you, ser suce intereste

viows may be eternal. From the Babybrian and Greek epics to the biomodical and cyberfantaises of lodey, we have created and recreated nametwis, ideologies, and world views

"When you start on your journey to thece," the Alexandrian coef Cavely water "free pay fast the species long. ace legendary sland home of the wancal body Many of us will reach the idle when we are old, some of un will care arichor sooner than we had anticipat coloway to thace-unless we're obligated by variables or gitches, the unexpected "Always knep it son toed in there is your ultimate goal. And if you find her poor. These has not defrauded you. With the orest western you have gained with so much expenence understand what thiscas mean. Not because if a a nest idea, a phicosphical

controls, or discourse I mids I am IV or observed the control of t

Matthirn. Passdoccally, I brugh as I say with Naccionus, "How can these things be?" CO.

The Institute programs include Sasway Veyage Guidelines, Lifeline, and Harri-Sync 2000. For further information, with to Hafen Warring. The Microse Institute, Route 1, Box 175. Fabr. Veyna 2038 (BM) 381-1252 MEFISTO IN ONYX

is so badly. Rudy, you can never to know not just for me or the career by or for the knew me or to service, and if howe people held folked, but just the though of him out first on the strong, and if how our first on the stronger of him out first on the stronger of him out first on the stronger of the sub-service and the house people. The sub-service of the sub-service of

case like a howing dog I had to put him away!"
"But you owncame your fear."
She don't like the edge of indicuse on the blade of that remark. "Thei's right I finally owncame my sear and I agreed

to go see him."
"And you saw him."
"fes."
"And the didn't know shit about no obar Millings, right?"

"Nes"
"But he talked a good talk. And he syst wiss blas so blue."
Yes, you eschole."
Ichudded Evensholar in somebody's

ted
"Now let me ask you his—very care
"Now let me ask you his—very care
sulp—so you don't hit me again the woment you discovered he disear shudon't you. I you, that he didn't have this long, wheathed crime rester to tick of,

case and hit the bricks?"
He' anhare wate ample. He is begged into follow a white!
"That is?" He begged you?"
"Rudy, he has no one He's never had anyone! She booked at me as if!!!
were made of stone, some base!!!
If the is in the state of the state of

unto a manositi. She feared the could not, in no way, no materi how pessually not bravely she phrasod if ponotrato my noting surface. Then she state a thing that I never wanted in boar.

Then she said a thing I could naver have magned the disty Never in a milton years. "Budy ..."
Then she said the most mutuil thing.

then that she was in love with a serial killer. "Rudy go shards read my mind. I need you to know, I need you to know, I need you to have." I need you to understand. Rudy. "The look on her face latind my heart. I lived to say no, of god so, not that, defense no. not final, don't live me to defense no. not final, don't live me to deDon't make me heel Effly, I'm no peepgram. The never speed or you, new er stelen a look when you were come; and of the advew, or undereang or when you were being seary. I never meeded you prevely 4 workfort? of a thing skee that I were mended; I don't need to serve if all, I don't want to go in these I being or make anyone, and make the post hinger in the I might not like, you'tre my trend, please don't seal that from me. "

"Rudy pieces Do if"

Ch jesotispecusjectus again, she taid it again!

We sat there And we sat there And we set there I have the company of th

sear: Clarify you just if you will not work. Her eyes looked at store, A man of atome And side sempled me jor do what I could do cousuity templed by Merlaun, Mephatischemie, Methodole, Stories Stock rock Dr. Faustut, possender of megaciel misdrededing powers, somewhat with the stories of the medical methodole, and see and experience of the seat that the seed that the seed with the seed of the seed that the seed with the seed of the seed that the seed of the see

when we probable and the begging word was probable and the gust that my between the side of the state of the

So I gazeled into her landscape
I stayed in there less than ten seconds. I defin't want to know everything I ould know and I defentely wanted to know nothing about, how the really thought of me I couldn't have born see-

go man. Steppen Porchmonkey Hudy Plant. Oh god, what was I Brinking! Nothing in there like that Nothing! Ally wouldn't have anything like that in there I was going note, going absolutely fucking crazy, in there back out in wat than the rescords; I want to block wat than the rescords; I want to block

which does not not be seen to block at the self than an excorde; I want to block a kills, void it waste it, empty it reject it, squeen at, darken it obscure it, when it, do away with it like it inswirthappened Like the uncreasing you want in on your momes and poppe and catch than blocking, and you want never to have known that.

I fixed to say no, off god no, not that, in there, in Allison Roche's landplease, no, not that, don't set me to do sage, I saw how her heart had respondthat, please places I don't want to go and to this man she cafed Sparriy, not naddy, we mean to much to each oth. Hon't Lake Sparring, She did not call ham in have, by the name of a morestic size called firm in honey in rame. I click it know if his was innocent or not, of the know has smooth. At first and the size of the was innocent. At first and the size of the size of

all the time. She knew what that was the And how half always been on his own. The sunning deap. The being captured like as wide thing, and put in this home or that looking or the capturings. For his own good." Weathing stone dops with a thin busine full of gray was the properties of the properties of the life own, and the stone for the capturing the coap, all the bender follow of airc between the integers were funcasity and and hart so much you couldn't make a first

Neverther Ingret were fundedly vid and hut to much you could miles to that to much you could mile to that to much you could mile to the major that the major

And carrie bods to both mit again Haman composition in a moment of Linds, limitly, sho began examining secrything she had worked up as extrations, laying the and allowed up as extracts, laying the and allowed prosent and a second she are allowed as a second she are as a second shown to the second she are a second shown to the second she are a second shown to the way that sould related Spermings now and shown the second she are a second shown as a few than Second she cause did not seem as a few than Second she cause did not seem as a

By that time, she had to admit to herself, she had fishen in love with him. The gardia quality could not be taked, she'd known frauctulent kindness in her latte. I left har mind gusartully. But at loast

"Now" she sakes."
You, now Now! understood. And the hactured glass in her voice told me. Her tope told me. The way she partial her tops in expectation, wating to me to re-wall whet me monou exames had con-

her cheek. All that told me, And I said,
"Yes."
Then, sience, between us
After a white she said, "I cidn't feel
anything"
(shrugged "Nothing to feel I was in

"You dight see everything?"
"No "Because you dight want to
"Recourse

"Because you didn't want to?"
"Because
She smiled. "Lunderstand Rudy."
Oh, do you? Do you seally? That's
just fine. And I heard me say, "four

cit, so your boy you heary man just fine And I hoost me say, "fou mode it with him yet?" I could have som off her arm it would've hunt loss. That's the second time today you've seled me that lend of question I don't like it much the first time, and I like it like it much the first time, and I like it in

less that time "
"fourse the one wanted me to go into your head. I didn't buy no ticket for
the stip."
"Well you were in frure. Didn't you.

"Wall, you were in there Didn't you look around enough to find out?"
"I didn't look for that "What a checkershit, wheedling loves and crewerfs."

"I travel't hered an answer, Counsolor Kindly restrict your answers to a semple yes or no."
"Don't be indiquious! He's on Death Row!"
There are water."

"How would you know?"

I had a frend Up at Policen Bay north of San Pancasco."

"That's What it is all right."

"The area marriemed in french of

San Clearlin. "I never more disease the Their I never more than an a side of the Their We ask sides the side of the Thought. Not make believe clearling and the Thought. Not make believe clearling and move well been and diseagued the their move well been and diseagued memoratish. No one west trappile this kind of light. I wisked She didn't aparyphighing mon. and I got no estephin kind of light. I wisked She didn't apwith their list of the side of the side of the will be side. The side of the side of the lakes Sparning had gono all the way with hir I fill a bening of emobion is didn't never went to look at, much look the list of the side of the I thought. Earling were School, will I thought. Earling were School, will a side of the side of the I thought. Earling were School, will a side of the I thought. Earling were School, will a side of the I thought. Earling were School, will a side of the side of side side of side side of side of side of side of side side

once, Let it just he there and got off and withered and der a proper dooth like all ugly droughts.

Okay So I go on down to Amone." I said. "Guppoon you meen in the very near future, since he is supposed to bake in four days. Sometime very

con like today" She nodded I siad, "And how do ligatiet? Law stuEarn \$4,000 Per Month From Your Home With A Computer!



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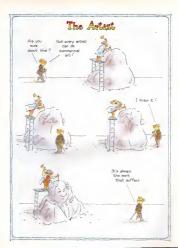
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Borlan's new law clerk? Or do I go in erth you? What am it friend of the lam-State Department of Corrections, may

I can do better than that," she said The smile "Much " "Yeah. I'll just bet you can Why does that worry ma? Ball with the smile, she hoisted the Ac-

bie to me. I pried open the class and

Clayer Very clayer. And already morrow morring, Thursday, absolutely

Let me guess I said, "Thursday mornings, the inmates of Death Row torney vastations Wednesdays and day it took me a couple of days to ge

"I've been busy" but inmales consult with the coursel on Wednesday and Thursday

I tapped the papers and plastic cards "This is very sharp. I notice in

ready here, already seeled in plastic How long have you had these ready?

What if I'd continued to say no?" "One last thing," I said And I leaned in very close, so she would cus. Time grows short. Today's Wednes-

ly high-verbel black boy with the mag 7 don't think so. Then what happens Leave that to me " Her face was

There are roads and routee and even bon year coming up Fevers to be called in

I said. "And secrets to be walted un "You sust come back and tell meScientific tests prove NordicTrack is # The exidence is in NordicTrack is "The World's Best Aerobic Exerciser"."

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smiled as I started to leugh, "and fill worry about the world one minute after midright Sunday morning."

I got up and slid the papers back into the envelope, and put the envelope under my arm I looked down at her and I smiled as gently as I looked, and I

said, "Assume the that you haven't stacked the clock by taking Spanning I can read minds."
"I wouldn't do that."

"Tell me"
"Tell me"
"Tell me"
"Tell me"
"Told him you can read
minds:
"You're bring."

You're lying '
"Didy't lawe to I can see it in your tace. My "
"Would it matter if he knew?"

"Note bit I can read the sonofabeth cold or hot, with or without Three seconds reade and fill know if he did it all. if he did part of it, if he did none of it." "I think I love him. Pluck."

"You told me that."
"But I wouldn't set you up. I need to know ... that's why I'm asking you to do it."

I dish access i jet sméd at her Shéd del hin fled krow i sea borning Bit hat was territo. If also had ho shodd him, if her saided her to call and let him krow it have saided her to be the search in standarde in a fast doudy, king of the quick enemers valgate lation in every called the second production of the production of three days, Fronto base on everlent. Affatte fracess? play bote in an hour, and, in a montain of numer available.

The state of the s

There is an African saying Death contres without the thumping of drums I have no idea why that one came back to me just free.

Last thing you expect from a prison administration is a fine sense of humon. But they got one at the Holmen flexibly. They had the bloody monster dressed like a vrgin. White duck pants, white short slowe shirt buttoned up to the neck. brogars with crope soles probably reoperate, but they didn't called with the pale, virginal apparation that come through the security door with a large, black bother in Access Place Authorbid Clash, these work shoes, and duch it make much of all top in the white the form it was as if he finated. Chi you, I say to make the company of the I say to make the company of the see how this measure figure could were man as teach a code in AM. Chi.

my year formatoly it was raining outside. Otherwise, sunlight, etneaming through the glass half or doubt have a half of those lost a Right there, a laughing sign would not have cassed formation; it was raining like a sonofability. Which hadn't made the other drain divine.

Last thing you expect from

administration is a fine sense of humor. But they

got one at the Holman facility 9

deathbad bit of Createst Terrific Moments in My Life Sheets of alumination with "take strongly Re in awareding showlr curtain that I could one parentsia." I see that of the Life half a dates three. Why I make placed down and busind speed up to the sides in the sucking goo naming take throws never be something IT understand.

If the control of the horizon state, when the best of the notice

Faithmen int borrowed from John Bac Filewards, norm that just lead to biggin, sewed like an opinion resture, with adways and chimosoff gift up the slippery grass and weeds and running, sucking and Albibrams goo, might back onto that long black went journaled but an as had as conting nalls. Like it been, as I sale a room to be a rugh that Doctrily and Committed the interest has been as the sale of th

Even so, even living charmed which was clear for me were so where I got about five miles north of Amoro, I look the 57 set of the 1-50 and is left onto 21, and pulsed in at the Best Mass. In, it was I may intended to stay overnight that the about 1-10-cap with the sauch --though I losev so young woman with overlater teeth open with the sauch --though I losev so the sauch --though I losev so the sauch --though I losev so that the sauch --though I losev so the sauch --though I losev so that the sauch --though I losev so the sau

tame as that Fartine, bunched forward to scope the ram. with Spanning in front of me. still desired was case. A teach of the delivers.

I checked in, stood under the phower for half air hour, changed into the receives a teach of the delivers.

I checked in, stood under the phower for half air hour, changed into the receives suit for brought along, and phoned the foot-desits for checkeds to the Indiana facility.

Driving there, is sweet moment happered for me. It was the last sweet moment for is long little thereafter, and I remember if now as if it were still happening. I cling to it.

remamber it now as if it were still happening. If ding to it in May, and on into early June, the Yellow Lady's Styper blossoms. In the forests and the woodland bogs, and of-

convicts suddenly separate. It was climary fixers was a hard step in the ram. Like the one of a function from the ram of the section of the ram of the ram

on a patch of hilly ground, or deep in a stand of invastic trees. Gycquadwr calcolus was making the right world beautiful with its fragrence. I neither slowed, nor tred to hold book the teats.

I just drove, feeling sorry for mywif, for no good reason I could name.

Way, way down—almost to the comer
of the Ronda panhandle, about three
hours south of the last truly impersil barbecks in that part of the world, in Brmingham—I made my way to Holman
If you've never been inside the pint,
what I'm about 10 say will resonate.

bout as clearly as Cr ne gentle Tasacky The stones call out

That institution for the between of Church, has a name for it. From the fine folio at Carbolcom, Lutheranem. icksm . ismsom the ones who brought you Torquemada, several scacy venetics of inquisition organal on the time called "prp-lifers" who bomb and main and kill ... comes the colichs Rolls off the tongue like God's On

Gyr Side don't it? Damood Noces As we say in Latin, the squeof maleyo-Locations forever sessing under a black cloud. Ike residing in a reoming

mond. The big slams are like that Joliet Dennemora, Ataca, Rahway State in Jarsey, that hellhole down in Louisiana. one, the old Folsom--- Q: and Ossening Only people who read about it call it Sing Sing " Inside, the cons call it Ossining. The Ohio State pen in Columbus Leowersworth Kansas The ones when they talk about doing hard time

in there, in those ancient smurtures mor-

ness of a milion man and women for decades ... in there the stones call

Damned places. You can feel it when you walk through the passes and on freach the metal detectors and emoyour briefcase so that thick Tingers can

holes in their own wests so they'll bised to death I blocked out as much as I could I tried to held on to the memory of the scort of orchds in the right. The last thing I wanted was to launt into some body's landscape at random. Go made had really but him here, not sust what

ory are of them. Every guy who had kickble-reasing psycho who had stolen.

gre whold shot a pensioner for her if I didn't keep that shield up, I'd be tempted to send out a scintilla and touch one of them in a mament of hu-

So I followed the trusty to the Wargen's office, where his secretary checkparts with my face encased in them. and she kept looking down at the face. face, and up at the face in front of her. a second inner she said "We've been expecting you, Mr Paris 1.h Do

you really work for the President of the I smiled at her "We go bowing togeth-

She took that highly, and offered to walk me to the conference room where I'd meet Henry Lake Spanning I want who can make life easier or more difficult, and I followed her along comdors and in and out of guarded steelriveled doorways, through Administration and the recreation room and the stained walnut, white tile over comerci acoustical Celolex squared conference room, where a Security Officer met us

I sat down at the conference table about twelve feet long and four feet wide, highly polished walnut maybe Everything quiet, except for the sound "He'll be here," the Security Officer

It was a big room

"That's good, I replied I had no idea was the reason I was there in the first place I imagined him to be the kind of guy you dread etting in front of, at the borer with a valid green card interpreting a Woody Allen move line-by-line to three weeks under the wire from Mate-



wearing octogeranans on the loose fried level multiplex one of them describto kick, and why. All at the top of her

"Seen any good moves littely?" I He didn't get a chance to answer. and I didn't gunt made to find out, be-

opened, and another Security Officer to Officer Let-Me-State-the-Obvious.

the other head poked back out, the door slammed, and my companion said, "When we bring one down from Dowth Row he's gotta walk through the Ad Building and Segregation and the down. Every man's inside. It takes

some time, vivinger "Is it true you work for the President

year? He asked it so politely I decid ed to give him a straight answer; and to hell with all the phony credentists Aily had worked up "Years," I said, "we're "Izzet so?" he said, fascinated by I was on the verge of explaning that

san descent, when I heard the sound of stanic appartion in white, being led by

rection Herry Lake Spanning, sans halo, hands and feet shacked, with the chairs cold-welded into a wide anodiged steel belt, shuffed toward me. and his response soles made so disturbing cacophony on the write ties. watched him come the long way across the room, and he washed me

the told him I can read minds Well let's see which method you see to by in the big lockup. Even livere

with his boards on the back of the char, and he didn't say a word, just sad yes I thought, of my goodness, was Henry Lake Spenning was either the

most masterfully changinate person ifd , gone, and the great one was standing

ever met, or so good at the charm con-"You can leave him." I said to the "I'll take full responsibility"

"Some at I was told someone had to be note here in the room with you I looked at the one who had writed with me. "That mean you, too?"

He shook his hood, "Just one of us. Cuess "

What would happen if I were this man's to loave us alone? Privileged contracnication, notif? They looked at each other, this pair

of a sudden Mr. Plan-se-the-Nose-on-Henry Lake

Spanning was either the most charismatic person I'd ever met, or so annad at

the charm con that he could sell a slashed throat to a strangler 9

for, and the sequous with biologic "had

They tell you who I work to? They in this may?" Recourse to authority of a couple of times each, but their faces stayed not: on the mark of sorry, ar. have mattered if they'd believed I'd Bowli in on Jebovah One

and it dign? take much reconficing to underground cables rerouted and the pressure on their bladders something "On the other hand -- "the first one

"I suppose we could " the grant And in a matter of maybe a minute

ded security window. He effectively sasied of the one entrance or est to three hundred Sperters facing the

Henry Lake Spanning stood silently watching me. "St down," I said "Make yourself com-He pulled out the pheir, came

"Pull it closer to the table," I said He had some difficulty, hands shack-

ing adge of the sest and scraped fortable

He was a handsome guy even for a back at me, and they said nothing. All white man. Noe nose, strong checkyour tolet when you toss in a tablet of 2000 Flushes. Very nice looking man.

ple, no one would've driven a stake locked like Freddy Krueger, he would never have beaton Tom Dowoy at the polis Joe Stelin and Saddem Hussen the family really nice looking, kindly gurg-who sust incidentally happened

and children. Also Lincoln looked like face you'd trust immediately if you save at in a by normanaryal. Man would like to go fishing with him, women would like to souweze his burs. Grannies would

en. If he could play the propolo rate What sape we are Beauty is only sign deep. You gen't judge a book by

noss: Dress for success. What saps we So what did that make my rul Alle-And why the heli didn't I rust sho into

scape? Why was I staling? Because I was scored of him disgusting murders, sitting forty-eight notes away from me, looking straight

This was damned foolighness. I had

all the weaponry he was sheckled, and Hell, they'd caught him, Herally, reduced Bloody to the atmoss, for Rudy I thought, get in there and take a look around But I didn't I wasted for He smiled tentatively, a cantils and

I boked at him, but not into him

do me any good, not in just three claves."

His los trembled "Yes I am Mr. Pur-

He clidn't answer. His eyes were

After a moment just looking at me, he scraped back his chair and stood up

and started to walk away I gunted in Oh my god, I thought. He was inno-

Never done any of a None of a Absorun, every gully and arroyo, all of his ment back and back and back to he Grant Field, thirty-six years ago, every

Then I saw hen start to go to his car

spaces out front; and the cry for help,

stopped cold, and he looked around and we both saw the bloody hand dumpster's fifthy green steel side. And I saw hen desert his grocenes extrout

unattended, or that he only had eleven if those procures were stepped by someone he wouldn't be eating for the crap Wing it. and I felt his neutron at the sight of that oper woman, what

as he crawled up onto the dumpster And I gred with him as she gasped.

holding the oppr mass of stripped skir.

did Henry Lake Spanning begin to understand what if must look like to middledympoters to piller cardboard boxes,

I was with him, there in the landscape within his mind, as he ran and miles from the body of Gurilla Aschor staft in Ally's office. It looked good on

counts of murder in the vilest extreme

Henry Lake Spanning, who looked most of all innocent duy

dark where you can go but not return hed to do something about it Not sail for Ally though that was ree

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- How you can conquer hearts Neamolens - How you can release stoom, a naverge held - Man was son Principle of the self-If this sportis too good to be true increm-

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thought he was doorned, and was light ered but clich! have to take no the from a wiseguy like me. "Wr Spanning." I called after him. He didn't step

Please, I said He stopped shuffling, the chains making their little chains bracelet sounds, but he dicht tirm around. 1 believe Ally einght, st." I seid. I believe they caught the wrong man, and I believe all the time you've serve.

and I believe all the time you've served as woncy, and I believe you ought not die!

Then he turned slowly and sarred at the with the lock of a dog that has been caused with a bene his voice was barely a whisper. "And why is hat, Mr. Paris? Why as it sty you befreve me when nobody side but Ally and my stormey believed time?"

seve the when coopy siss but Ally and my altomay believed me?

I didn't asy what I was thriving. What I was thriving, what I was three in these, and I know he was innocent. And more than that, I knew that he truly lowed my pat Allison Roche.

And there was it much I wouldn't do for Ally.

for Ally So what I said was "I know you're innocent because I know who's guirly." His lips parted It wasn't one of those big moves where someone's mouth flops open in astonahment, it was just a porting of the lips. But he was startled, I knew that as I knew the poor landblocked. I knew that as I knew the poor landblocked has a wayne to land to long at the poor landblocked.

ready:
He came shuffling back to me, and sast down.
'Don't make fun, Mr Paris Please I'm what you said, I'm scared I don't want to die, and I surely don't want to die with the world shriking I did those. Those thoses to

those — those things!

Maker in an un captain I know who ought to burn for all those mucdoes Not as states, but eleven had the things and the state of the development of the state of the development of the state o

I all What I had packed all to heli inthing so and published and what you can go but not what I have all a state many document out in The wall-sale many document out in the control and sunk a mile deposit on controls and sunk a mile so have not deposit of partial. The week deposit of partial The week and published to deposit of partial the work of the country along an extremely thick blands of state and plastic, the equalient of sex hundred so over injuriting allered as at hundred so over injuriting

min of homogeneous depth protection approached the maximum toughness and hardness of crystallation, that some grown with prefer crystal situation and cannibly controlled quantities of important that can be shall all amount committee of important that can saturate shallow homes during the saturation of a holiton charges as passed shallong homest day home of the control homest both. The facilitation shall have been shall be set to be controlled to the mind where to facilitate is all assets the shall done and over and over

their screams, or see the topps of bloody Sanction, or stars into the pulped occlust where their pleading eyes had been. When I had resided set that preson, I do see busined up trasilly less sale and socium. I linear nothing remembered nothing suspected inchang. But when I walked into Henry Lake. Scientifically interfaced and caused not Scientifically interfaced and caused not seen and seed on the seed of the seed of seen and seed on the seed of seed of seed seed of seed of seed of seed seed of seed se

éHis lips parted it wasn't one of those

big moves where someone's mouth flops open in astonishment, it was just a parting of the lips 9

the earth crack. I felt the tremore and the uphravals, and the tremore and at my lost and one to the hostice, and the lines bolked up and bugan to flow. And the steller walls males and the concrate its made to dust, and the barriers is dealthout and it booked at the type of

The Market of the Principles o

In there, in his mind, his landscape open to me. I saw the love he had for Allbon Roche, for my pail and buddy with whose I had once just once. Don't try selfir me that the Power of Love can open the fiscures. I don't want to hear that shift, I'm selfing you that it was a combination, a bunche. things that sold me open, and possibly maybe one of those things was what I saw between them. If so quok study but the was in an instant A crack of life A moment of human work.

If some those that much I'm a quok study but the was in an instant A crack of life A moment of human was. Thinks what I'd but here in the part of me that verticed to the place of lask, that I'd other in moments of human wowhness. And it was those moments on the part of the part of the part of the part of lask, that I'd done with I'd other in moments of human wowhness.

And it was those moments not my

"git," and not my blackness, that had made me the loser, the masser, the iner that I am. In the first moment of realization, I souldn't believe it. Not me, not good old Rudy, Not livisable Rudy Plans never

couldn't believe is not the, hot good out hough the instable fourly firms never does no one but hisself whoring his sincial file and the state of the state of the in the most social of least with any state of the state of the ingless of the disputing thing ingless of the disputing thing and purk less not as one of the state less than the state of the less than the state of the and purk less file little state of the putwectant and equeues it into pulp in the next second! We consumed.

done unstracted unfrisiden maked to fine fluidy Pains allow selected and passionalise and low-selecting, when it such a Study was little better their a welleducated frizing that fine is filter—I wanted to poke Them. Intelly I accepted what I cauld not deep For me, never again, would I sike

through the right with the scent of the blossoring listow Lady a Slipper I recognized that porture now. If was the oder hat reserve from a human body cut issde open, like a mouth making a big dark yawri. The other Risdy Pariss had come.

assistant and 1 Source of the Source of Thompson Source of Source of the Source of Thompson Source of Source of Thompson Source of Source of Thompson Source of Source

know about, the fourter a tre same m.o. as the of to mention the old style rip and out can who did Half Mary this and Sweet I held up parts of her insides for her to ute's worry for the State of Alabama. All grates extremely pleased with the law

die East noht out of the box. Neither Hor-Ally work into seclusion of course all like that well, oc-poppa-dow as they used to sax it was all reordered. well 'A favorite saving of Cato. The Eld-

that Ally and Henry Lake Spanning, who ally, that the two of them would be

Please come. I begged them into that place of dark, where you can for you, captain, well, hell didn't I save

can do. Come on now, be there or be other way around, but one day about a berberue, which meant Ally my ball of the Row where now I dwelt in du

Yesh, that was the key. Why would why would such a smart operator aud-

The things a guy I do for love

ble meat on white toest with very

amends for destroying most of the

6I tried hitting it with a bolt of pure blue lightning mental

power, but people's minds worked 9

ocids, beliefs, and cultures of my black rity Olicers, neither one of whom had

rest, caught up on my reading, finally in the game, lost some weight, worked out requiarly, gave up cheese and

Even took a reject or two or ten, ev-Brought me in, strepped me in

I looked through the glass at the tow center Best seats in the house. All

what way it had all gone down without Henry Lake Spenning siting close beside her, their hands looked in her lap

through. Thirty years or less since I

only person who could do this listen in er entrance. I went wild! I feed running at it full-till, and bit something khaki-

you're como to bust through and I tried hitting it with a boil of pure one out of a Marvel comic, but that wean't how mixing in other people's with a psychic bettering ram. That's the

Power of Love and The Power of the don't be home to that folly! I tried picturing myself in there, but that right work, either I tried highland curred to me that I didn't really know

how ligurited ligst did it One moown head, and the next I was over there in someone else's landscape III

mask over my table so the winessess wouldn't have to see the smoke com-

ly. And right then that moment. I was to him, there he was, inside my head

He had sounted into my landscape.

him a year ago. A lof stronger inside my "Yos, Rudy, I'm what you knew probe-

shrive" He paused "I see you call it firsk they don't know they can do it." has the ones Ally had fallen in love

He amind such: "An Rudy Budy

Because I needed to suck you ru true thoughts, his past his life the raal

lence carriers with a looped tape that continues to show a placed scene while the loint is being actively burgledands long in the real world, sust before you wake up-and he sweet away all the logical structure of sequential

true memories, altered and warped and

t was urgent that I get min the . decs ... so that i'd believe in a moment of homble regission, that I was

ranged state to state to state, leaving ples of ripped flesh at every stop. Block-

another tike ms. till Ally came to interview me after Decatur. But there you

rise off her ... maybe have a proall me Good old Rudy Paris, who nev-

"I wanted her night from the first mo

Hope, right there in her mind, lisn't she

a krafe to? Something to split open like

sloppy ust been a shrike to Alfv. that ing if warn't a man, it was a women no Spanning, but Deputy D.A. Allison



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of about your pain." You M.

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gram that makes it the safest to buil Call today and FOR MAKE WE SEE HE THE

//// complications. But I could have done "At the moment when you couldn't

"fou look distressed. Mr. Rudy Peris Why's that? Because you're going to when all I had to do was bide my time

Well, that a sad, that a really sad, kiddo me out "I wed

Stronger? You still claff t get it, do you?" and wert through that trial, all of that, because I couldn't do anything about

Longed "And you wassed ... ? For me you spent all that time in prison.

I felt like a drowing takey, stand no idologly in the san, head filled up mouth open water pouring in "You - an out WATE MITTO DEF-Spanning angowed like a school

get me?

He smirked Smener than thou big deal to me? You don't think I gould countered. You think I wouldn't st in

You're what, Rudy - throvens is 17 Yes I can see that Thirtyone You've never jumped tike a shirtee that it's more than reading minds. You electric chair-and take up readence nies of milion eart a hethropic contra

"But you have to have a place for the other one to go don't you? I said it austifiat, no tone no polor to it at all I didn't even think of the place of dark.

Who do you think I am, Budy? Just about changing residences? You "But I can give you a tew of my

Rais, France 1440, Visd Teces, Pomania, 1462 Ekzabeth Bathory Hungary, 1611 Catherine DeShayes France, 1680. Jack the Papper, London, 1885 Henri Desire Landru, France, 1915. Alhert Fish, New York Dity, 1904, Fid Gein Districted Wincomes 1056 Mary Hesdley Menchester 1983, Albert DeSalvo. Boston, 1964 Charles Manson, Los Annaige 1989 John Wayne Barry Nov. parch morkey That's what I do I do

head stolen ... and then you might "Well you see what I mean, don't

But now that the mask is securely in place and now that the electrodes left inc. and now that the Warden has his hand on the switch, well, you'd better get ready to do a lot of drooking He fried to yours, fried to leap back to "I may not know all those names.

Species my busher, but I do blook Winne Puth Just and Charle Barakeether and Richard Special and Sahnai and Article Special and Sahnai and Sah

can't do shit about it?
"You so goddam stuck on yourself.
Spankyhoad, you never give it the bar est that someopic else as a faster draw

est that someone else a faster di than you.

"Know what your trouble is Capti You're old you're naviolat, mapba it

discla of years who gives a derire old that don't count for shif, old menfour's each but you rever got email. "You're each medicate at what you do "You moved from address to address. You didn't have to be Son of Sam or Can slayer! Abet, or whoever the luck you been __you oculidy."

the furth you been your could be been flower or Gallacter Clarge (and purpose been flower). The property of the form of the furth of the flower of the furth of the flower of the furth of the flower of the flower flower of the flower flower

stepid of the floor you are
"Yesh", you go me good when I I
catho have to see you leadstope You I
catho have to see you leadstope You I
god Ally setting you good. After see such
she was cong. If ... you mast we
she was cong. If ... you mast we
she was cong. If ... you mast we
conserved to you the see to make me
cone with nearly Good, minery you
were excellent 'But I had a year to be:
cone with nearly Good, minery you
were excellent 'But I had a year to be:
about 8.4 About how many popels I di
Alled, and frow sack it made me and
but you will be you go you would be
stay to be I becough it ...

"Because and here's the big difference hiseman, durry," If unraweled what was going or. If took time, but learned Understand asshall? Harril You don't. "Thore's an old Jepanses eaying—I got let of frees. Henry immer—I wand a what lot—and what says is. Do not fall into the error of the attisan who beast of twenty years expension in his

year of expenence—beauty times."

They I gamed back at him.

"Sucky or socker." I said yet as the work of the social times and it is an expensive the section of themse and in the section of themse and it is a section of the section

y mind of Henry Lake Spanning I set there getting oversign for a secord, it was the first time (if don'in missis than a start. the was, a thrike, a but then Ally bestde mis given a little subfor her did pall PLUY Plans who was balling like a Mane libitate, smoke coming out from under the black cloth that cousend my, his, face, and the heart the vis-

send my, fac, lace and heard the vesbgal source of what had been Henry to the Spanning and trausurate of other misstans, all of them business, our their on the far has been of my new landries of size has been of my new landning their hard the survival or of the me, and have the survivale por on und to the faculty of the size of the land the survivale or on und to the the survivale or on und to the standard the survivale or on und to the standard the survivale or on und to the standard the survivale or on the standard the survivale or the standard the standard the the standard the the standard the the standard the standard the the standard the standard the the the standard the the st

m. me, and I heard the soniaming on such on for the longous time. I think it was a long time, and firedly it was pust of came up from Ally's shoulder, and I or could benefit sonial. The could benefit sonial. The could benefit sonial. The could benefit sonial to the country of the country of

in the second of the second of

the world I was ready to stop falling at everything.

And it would be a whole following.

And it would be a whole following.

Because—get on that now—all my discusse—get on that now—all my with bibblings on trademal being bornquisted or being unlooky or being light who the common that the proposition of the cusped my light or purchased to the cusped my base to my beat language which protop the cusped my light or the cusped my light my beat language which are and the cusped my light my beat language beat one of those I have always been one of those the cusped my light and the cusped my light and the cusped my light my

Which meant I could at last stop feeling sony for that poor ragger. Rudy Paris. Except maybe, in a moment of human weakness OC

nan waalinesa DCI This story, for Bob Bloch, beca





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OMW AT 15.
What do the numbers hold for us this year?
By Scot Morris

In arrowst History, a proper written form of the reams of Jehnsch was a Y and an H (night, behalv), reading from sight to left Ences the same symbols aerud se numbers, and Y = 10 and H = 5, they also designated the reamber 15 Trus, the Knibbeins, smooth Jewish mystes, corrected and 15 are 15 trus, the Knibbeins, smooth Jewish mystes, corrected this 15 are 15 trus, the Knibbeins, smooth Jewish mystes, corrected this 15 are 15 trus, the Knibbeins, smooth Jewish mystes, corrected and 15 are 15 trus, the Knibbeins, smooth Jewish mystes, corrected and 15 are 15 trus, the Knibbeins, smooth Jewish mystes, corrected and 15 are 15 trus, the Knibbeins, smooth Jewish Mills and Mills are 15 trus, the Mills are 15 t

Robbelists, wodert Jaweth mystes, correlated to 5 very holy number. Chris board with the number 16 is toly cosmic Orner and October both beigh with 0, the ISSN ledies Add the first five integral. Add the first five integral and you get 15. Multiply the first two prime numbers. 2 × 5 × 5 × 7 × 11, and you get 23.10, a re-amargement of our logo (npt), content.

Here's a guz for our sonneassy. How does 15 relate to the following 1 Bosting, arrocker, and Rugby 2 P. KV, and 1111 3 Bewen + two = tw + one. Not only do the

3 bleven + two = tweets of the nor. Not only do the numbers add up correctly, but the secrets or each sade of the equals sign are anagrams of each other. I've the only known anagram equation in English Lice. Sellows has found two in





Spenish, and, incredibly, they both sum up to 15. What are they?

4. How many 15s are in the following story?

Martin Luther King, Jr., and the others mer in San Dann, 3 nor in trace on

Marin Luther King, Jr., and he others are in San Dego. Tips my bease on time and I vote I want to sarve on the UN. Security Council," King aad Andy Wartell dove in tion Sait. Lake City, and in Lae Vega he picked up Billy Cystal, who brought an appropria git. The fluctheran is no proadental descendent,"

displaying in degrees to this see time aona "Then Lang John Silver sang a song, and they all shock hands ANSWERS".

In There are 15 rounds in a champcording bowing match, 15 bells in the attention of grade of snootket, and 15 players on a Blugby beam 2 Phasphous (P) at this champtonian (P) at

saluted the fleg. Julius

Caesar, who brought all of

great grandparents said, "I

and 1111 is 15 in binary numbers 3. Uno + patrice = custro + once (1 + 14 = 4 + 11), dos + trace = tres

- 11), doe - trice in tree - door (2 + 13 = 3 + 12) 4 (1) Martin Luther King J., week born on January 15 (2) Tax day is April 15 (3) The Filheeth Americhment pavol Black makes the right to vote (4) The UN Security Council has 15 members (5) Andy Wando said everyone would be

Security Council has 15 members (9) Andy Warter said everyone would be immune to 11 members (9) Andy Warter said everyone would be immune to 11 members (1) Dywais in the syndhors (8) Andy Warter (1) He find the first said clear (9) The find the first said clear (9) The fing that Sarpers (10) James Surveys (1) Annual Sarpers (10) James (1) The find that the first said clear (1) The find that the first said clear (1) The find that said clear (1) The first said clear (1

and the second of the second o

Numerological thanks to Monte Zerger, Dan Shine, and Max Mavan DO

LAST WORD

THE SMARTNESS EXPERIMENT. When megadosing goes awry ev 1 Billiogs, Krupp, and

By Stan Sinberg

creative to spriftpartly expend

Day 2 The drugs are already having an effect! Billings shows up with the New York Times and covered them?" We are extreme

Pumoine Coder I begin to tes

phael I have amazing insight ton. "What dry deaners do

Rid to our first breakthrough! We Megabrain 3000 White watching drugs are having an effect! Dismore profitable making a video. ... traught from his Jappardy! loss Fillings appoinces his priention to

drinking. Krupp is pulled over for

a chain of wilderness pocketral termenation Billions announced

Day 9. Weening a swimput and

Day 50 Krunn suffers massive

Day 11 Billings has been

Day 12 Koupp's brillant new ally cosmic punshot holes of death "being too smart for his

Day 7. Krupp and I have a ing on our bodies DO



