

REDEFINING DEATH

SUPERSCIENTISTS
SIX MINDS THAT COULD SAVE THE WORLD





VOL 9 NO 12

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SEPTEMBER 1987

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THE BIG LINK

ARTIFICIAL INTELLIGENCE

By Steve Diffee

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LOST ULYSSES

SPACE

By Doug Stewart

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EXPLORATIONS

By Joni K Miller

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THE VATICAN GOES TO HELL

BOOKS

By Elizabeth Stone

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tor MULT) in propercions
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And there sup in bug
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in years with paper than
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without "Rowley applians."

ny Asia from me dra kope mar /
oka change his Gyure and you will send me mad '
— Asiaci Zangwill
Man is flying hos fast for a

world that is round Soon
file will continue an exhibiting of the same and collision
and great roar and collision
and Affer will rever know that
what hat fire have between
was Men
—James Thurber
orga

—Jismas Thurber organic realers! Love says observed speciments raisely certain such large amounts in the pict study Love used five higginess of Indian potany found main day. Opt of the higginess of Indian potany found main day. Opt

shire ages could be accunately determined from their styles. The ages of the other two fragments were unknown. All of the shands were from the street of opposing vessels.

the mm of cooling vessels and Love adharms he layer endured by straining that the detection of the control of t

phin or merus 86 years

Wat a war the incidence
entry" Low before of the open
to steely shall lend of the open
to steely shall lend of the open
to s

— Joel Schwai When the man who knows all about the hurkly chronoscenes linds himself shring ned to an authority or Berwill have may be an unsany selector.

The ascundentity people who won't a know the same when it's hard enputits to feel your way.

and Ghinatown -- Woody Alien



SIX SCIENTISTS WHO MAY SAVE THE

ARTICLE











Araling white cloud noos high into the air from the nearly leature-

there is no measing its contains origin or years your of the women who explains it to fact "she continues her voice haidening slightly some of those underground tests

and opidemiology—a nurs and despite is ngly touch-skinned campaigner against

effective. We know that those no use nexrepresentative of the larger group. Some own mawinck cerains relices. In other case, and no matter what particular pieces of the to creete a scarnce fusied by reveronge

Peter Rayon is a man with a mission. The

fons of trees, in particular the tropical The creat steamy forests of the equaleaves produce by photosynthesis an disappearing-out down by farmers, min-

By that time the says, all the tropscal Reside of the world will have been contation will have brought about the extino

ests, the world will become much warmer

size the magnitude of the problem and that

scentic article When as a smorin refgraduate education with grants and fel-

In 1960, with a Ph.D. from UCLA, he want They want to

folly, to create a science fueled by reverence and humility and to use the tools of that

science to build a new and centler world.

ests he was teaching about were brang distroyed. 'One knew in a hazy way,' he says, that there were people outing down wheiring problem." His peripective were office next to Paul Etylich, whose book on lich's ruleisge, he says. If began to regige

That roofly pot mo started to case! As devotor of the botance! garden and a professor of botany at nearby on Earth. With the destruction of the forsteam of students to catalog troocal plants know what we've got and where ser've got it he says we can't do anything. Once

With the distabase as an ongoing pro-

place he says worklands seed banks assistance in replacing destructive stastregues that will proserve lorest lands in-

stead of obitessing them. And troo-cal value programs along lines already devoloped in Costa Roa, where as much as

Rayer's campaion has not been without the profests. It's often been a battle aust extensive analysis that Paven is worken happened. Within the rent their water."

Raven explains all the tropical forests will Although throse who know him now Plase generally pranted as down to earth and

collegeum and former student Peter Hoch This unusual combination of drive and he were to stop right now. Hoch says, "his regact would have been enormous. He's, at the annual meeting of the powerful

So poverápia wfo make a difference (prepar-

one of the most cohesinal shallow logical sounce. Says Hoch Buil a Raven is concerned influence as when considerable is not incorp, when the considerable is not incorp, when the logical has been been seeining a girm influed. Cutting in the logical has been for considerable with protein the control of the control of the gram in the control of the logical multiply down logical multiply down more step blooding world.

we cannot live

When Players busines to that the designpostance of a latego portion of the designrealized grown makes other accretisms in schoring just at implify to soot the planet with precimitate it full has reveal beforement. As the school of bases grown secutarities of all hard hard to be consistensated at the school of bases grown secutarities of all hard products of a school and post-levely genefic literacy of customs of a whole new genefic literacy of customs are, perhaps the fundament of techniques tool, may reveal again the the some

soon, may never again to a so carrier. For melarina, tarmers and chip trivial as have been trying to especie that store by corn's ming the best genetic characteristics of several viewels in one plant the occurry the only way to achieve these in provements was by crosothreading. gene splicing (methods for combining ferrent bats of generic information) plocated on the scantific scenie in this enter. It suidenly became reside to allow tredesigning agricultural crops (abovatory alternig their characteristic manipulating the very heart of the or sime, the general themselves.

instructions the way heart will be experience the general beneather.

As a biology professor at Washington, University Virgina Wabot a big entitivision, specification for the word fractional, used at preclicidant for the word fractions, used as seamed born for the edit fractions, fee the way codecting pairs and dating the tierred of the pairs is Las Angoliss form with now and loopstable guidants. By the with now and loopstable guidants. By the

the center of that revolution instead searched born for the 5th Accounts favored the search of the search of the favored the search of the search of the work one and vegetable particles. By the either search of the search of the work one of their plants fand vegetable branches with leavest and forces that come of their plants fand vegetable branches with leavest and forces that do for the search of the first and that the paper? We work had the layer right extent for a sciencial. I had to strow.

became available, she bag ones of alterng corn and n general solucione derivative in mail vicuo de more messalariti la cuda and penta from traugh such alterative vasa them theoretically ficiative designative participative supported new general resistant ratio the cells of the paintar themselvesse for some organic-cusisists for example—mess-genera could be carried into the hearts of the cells by cetans lands of bacteria. This lictrinesia and not vice particularly well however, for ce

melti he koci mod corti.

In 1984 Walsor nev back al Bannindi sa profressor of bologo, heard about a new approach the Harward bologo Harling son Pibter had usdo to successivity in part new precisio meleti di positi nesi precisio Calada descrupcionani. Par rein fuchinosi used si indicario meleti di profri heder in sono di professiviti di professiviti di prodiccionali sono cossistamento il williatori Bannino di altronominale reinchio professioni devoci. Il tivoso a bunno di versi on a perce ol prima

with an old fretwared knile switch, Welber recalls. It looked like a high school so: ercop project. But a worked. Wethin a morth Welber's soan had successfully interled new DNA into the cells of carrote then of com. It was a cliste transferragin. Walatot says. In face, it was the most clear cut osce to went been well-bed in where one day notifi-

"Hill fact it was the most clear out case to was been involved in where one day nothing was possible." And the hoot clay every thing was possible." Even so no one knows better then Walbet just have much work comains. The novround, she says, "will be lougher because

periodic on node than one given "The sour four entire and half we encered entire included with the soil of genetic manipulation. Eventually Mattors were could heath what some era allessay cathing a new green resolution. Wallost threis that destroys some will ultimately be used to help owelplants that are larger resolves media as solution and an experimental solutions of the solution recommended. See a larger design page and one wasters that it was collecting to the solution of the solution.

isolal microenvironnests (file in styrigh) color microenvironnests (file in specification) and in specification in specification in specification and in spe

residentiation of prefet toy. Before this exposition is not real and finish for else resident will have to be buggle on a bettleground more policial flam sometic. Comy anytic and other more made and dangers called the services and sout decreases that will stop the outand sout decreases that will stop the outdoor feeling of set the land of greencally altered coparisms that Walada services as This makes Walada will resident This makes Walada will not set to the form of the control of the control





FICTION

A blind man, an invalid in a Hawairan shirt, and a nun with a red guitar case find

'ALINUKUM

BY THOMAS M. DISCH

HE PLANE ENTERS THE CLOUD From holizan to horizon the sky that could be seen from the sky that could be seen from the depositure fourge was a uniform, furnishes gitty if gearned like a whale lifted out of the water—one disk undefferentiated glustoming that followed a curve too vest for accombination.

bot was the apprehension. The 787 has had made along the streeting to the off and worsh from the property of the 187 had been a second or the property of the 187 had been along the 187 had been selfer of the 187 had been self-or the 187 had been self-or

galy sweathfurt, a graly cowboy hat a gray knapsack In the face of such consensus the law concentrations of begin color in the lounce took on the force of wild.

vermodestly. Setter Incorrection's redguillar case (if had cost heartly dollars less than the identical case in black) the Hyanam ahrt of the years man in the wheelshair the scharming grean perilatured the verman resolning How as through Durry the Carting Balt? Nation, the Section yellow call basent

handcalfed to the west of one of the gaps make a minute can of the The fight was amounted, and the The fight was amounted, and the The fight was amounted to the problem of the resolute. The four pane fight abondcarts performed they peelight performed monocitating the use of the oxygen makes and assistance of the resolute for the service for the ser

madily of matically upbeat times. Sater incomation—who of the red guidar cose—made a small remark shout the Musik, and Sater Fideia strang boads her in the window seat portified out the element of amoganies inher remark. Sater Fideias conscience was always on patrol Dayl dreathered for the had been unchartatible, Sater incarnation broads a motor. The plane taxed to the and of the runway. The fight intendants make is final passage up and down the assess to sethist everyonist chair was inthe surgitizasition with the scar bott fastered. The engrees teed and the plane rolled forwards bouncing and shuddleng. This womain in the green partials this Judd Schweere, lowested the plants of the window basica has and stand insolving at the temporary meaningless pint on the page. The plane shed upward They were off

the ground. Sister Incamation leaned across Siter Richels by to look at the entity begatering view—the gray, butsquare strips of the apport's concrete the long ribbnes of Inghiese, a patchwork of suburban rootops and lavire, and then, quite suborty, nothing at all They haden brend the cloud Sieter Incamation leaned back in the seal with a soft

The women in the green particul resed the blind from the sendow and returned to a consideration of real-estate values in a period of double-digit inflation. The light attandants began to distribute earphones.

HIGH-KATTUDES Barry Avisions could almost feel the first squar of advisualize orthoring the system so the flowed the toggle up and other by way of preving to Macosin-Jag, the plat that the solor way toget deed Lidewise the incide yes elements and any instrument that most called their discourse that most called their discourse making their provisions of the properties of their provisions of the properties of invariance of the properciologicalizes of its provisions of the properciologicalizes of its descriptions.

opplets men of absolutely no integeration, man who could be obunfed on not to pane, in structions such as the which most poopie would charactered as impossible. Berry's first reaction while in tribute to that as leading procession. "I thank the difficulty must have somethan to risk with the distructions." In seat-

in a tono of unconfoundable cultin The oothed adversaline had no effect buf to sharper his motor neigonosis. "Sath but Jesus the nadar" Misloois wild beginning to willine Mislooth diseptin siz good a tost profile as Barry, was already ratified. "How do you explain that?"

as good a test profile as Barry, was already ratted. How do you explain that? Barry offered no explaination beyond a processon strug. We'll just have to keep cambring. Then, when we're over this damned cloud.

As they climbed, thany calculated on the west comprass they probably although Glave the stope of social, the time disposed and the spood shocks the estimated, bread on the engrision finately. Belly serviced stet Macchini checked the high efficiency and probable distallated of they she thousand see! Macchini checked the financy and seek Macchini checked the steek service for the service of the service of the Macchini checked of close of this copier in such as the sheek of close of this should. Even the highest cause services formed above forty tocusand bert "Ward bable" steep onlinking" and danny.

Yeld just keep heading where?" "The way were headed Do you have any other suggestions? Mislastin Till have to dear eventuch

Miscoim nocided like a person of privade of among yraput, he mind begain to produce reverse of a somewhall may proposed makes the remembers a tight attendant the had made out with clump a styruler in Process in the outopic of this way place the could maintain be fragillated white bollowy breates droping down over the ten of her this case, he is interested, the highly, the could make the process of highly, the could have the larger, and the process of the hards, the lock

If thigh, the occurrence of the hands the holding of shore shapemate.

STRANDE WEARHER

The is some strange weether," said a Andy Doer present the small or Andy Doer present the small or another the small or another the small or manuages left by earlier observation. The small or the small said, and who was reading the animatic bound do it who was reading the animatic bound do who was reading the animatic bound do.

who was reading the armost bound do tion of Susiness Week Andy ligured there was no use continuing the consensation. There was more than a sest between them—there was a gin-

€There was a change in the pitch of the engines' low .organ tories, a diminution of

thrust, as though the 747 were slowing down, like a ship plowing through heavy soas ?

endion, and stwaint; about to be spanned. But it was undoubtedly very strange weather, and white Andy trusted implicitly margianes, he cauld their beeing edgy. They'd been climbing for how long all seady? And shill were and shill had it come at of the clouds.

The sexi-bet sign was still on but oth crease nothing seared autofine ordinary Poppe in the back risk were smalling. The attendants were readying a trolley of coftee and chinks. He felt the weight of his body shifting.

in the doubt, though It was strange. The day on the Naropsok for a book Readering was the second bat way. Any have to get him to do of realing event of a three to get him mad of realing, event of a the find bread was the technolish Matthews with the technolish the Matthews will be the constitution. Matthews were Budden's Matthews which a doubt the three doubt in the three was in partial to be at Matthews than a country which was the second of the three doubt in the three was a description of the three ware advantage in a state-flowing parties college, in the college in the tender to partie college, and in the college in the tender to partie college, and in the college in the tender to partie college, and the college is the tender to the college in the tender to partie college, and the college is the tender to the college in the tender to the college in the tender to the college in the tender to the tender to the college in the tender to the college in the tender to the college in the tender to the tender to the college in the tender to th

sis. Trough the diagnerwas not one of them

The embarical however was compatible, and you never had to wait for a court. Not the Andy received himself exhibitions in the direction of barries. If the first fed to believe way but a chases, so who needed

t was but a dream, so whether balls rowing?
HUDDER AND LURCH
plane lunched.

The plans lucted.

Dr. Turn unfined imagining the sudden constraints after the plans of the plan

rot have been more store.

"Wis Vow?"
"Doctor?"

"Dot you feel an unusual sensolon just

"In what sonse unusual?"
"Proprioceptively 'replied Dr Turrs with

attend exactinate he knew Mrs. Vow found annoying. After a pause to consulf her own sensations, the ensuremed. While adopted demonstrating and seem to have leveled. The annual part is off that the participation.

ears light is still on.

"What can you see out the window?"

Were still in the hadvol flee clouds and
hadvol the still had on the still had one then
tashe lovelist part of flying, for my mindlooking down over those landscapes of doubt. They seem so sold One under stands how the Greeke right suppose ther solds cast low on two of term."

about a great deef fore welver or crosses. "On inguide secular possibly," seal Min. When "Dut not on Georgia O Keether. For a which happy discussed the self-allem for a secular possible of their fuence of the secular possible of the conscious of their fuence medical searchic theories, art history was Dr. Turn's favorite recreational pastern for Welverhald deep year of presignational works at the Westung Institute and their lowoid describe a persing in the most immunities of describe a persing in the most immunities and the secular possible on the resignation of describe a persing in the most immunities and the secular possible on the second possible of t

with a first first particular and in period and a to describe a parting in the most market to describe a parting in the most market to describe a parting in the most market to the most particular and the most particular to the most particular and the particular to the most particular to the most particular the m Kooring Johns, Debenkorn Thewonder that she never pulled rank on him priver suggested that if he could see the painting

The captains voce boomed out over the

soals with their seet belts fastered. The

ches of the? Mrs. Vow observed "Men" said Dr Turni

The catan tilled forward and to the right.

without altering its downward inclination. I think were orang to crash. Mrs. Yow. A sudden belittle of voxes expressed correlative tonitodings Several passer-

Mrs. Yow everted a steady steadying confusion of voices in the cabin, the whine of the engines seemed to derivers to a runtile, a purr a whisper When the en-

ones careed atopeter the cabin fell apassenger-that they were not about to possibly) becamed Slowly in utier si

wers a ship nong a long swell 'Do you know I wish someone would

screamed Nist as an actuit in public And

"It is very strange," Mrs. Vow agreed in

THE CLOUDENTERS THE PLANE the beage plastic issues of the vertilator above Mrs. Extremens over to teach to

muzzy stronghers within the cotin. The

larger address of this seeming suspen suddenly so much higher humidity "What in heaven's name is happening?"

spattered pages of her book in evidence to the penteman across the aske "Why is In the seet habout Mrs. Schweren Sister

saw that them were indeed displets of the vertiblor above Sister Fidelis as wellthere should be any at all was uncerting Why would a ventilator over dep water to recall that conciencation had something

to do with road coping and that ac-Amendal Mrs. Schween oxided out at the beginning of the takeoff registern

Reluctantly (for shirld been graterial for her way up the orde to Mrs. Schweere's buildrend soot. What seems to be iffer medias massm?" she saked, leaning down sense of brand owed an explanation be-

in shape like thought balloons in a correcamount of miling about in the saker. The

Sater Incarration logaled the shoulder The popie did not suffice. Setsy Incar

of a snore, faint as the agnal of a radio

David Woody had remained in his seek during the first outbreek of period not so



much bocause his were bandforffeld to the fivent beater of the Risk a colition, yet after starring in two leasts when in which he had played affected obsolided had good after taking in which were the had played affected the had played affected obsolided had good for the had played affected obsolided had for the had been starring as the had been for the had been starring as the had been for the had been starring as the had been seen and the had been as the had been seen as the had been possess which give her cold tools and the proposed world give her cold tools and the proposed world give her cold tools and the herstandish of a cold basket for otherly absoluted on the cold beautiful to the proposed of the proposed the proposed of the proposed proposed with the present of the proposed proposed with the present of the proposed proposed with the present of the proposed proposed prop

May I have your distriction energicody? Clevel gase is as administ to the 14st water-shirted paraprops with fail impogled up to support handle of the control of the sales over an other work or in the sales over an experience of the sales of the sales of the feet other first-clean passage so strends from more time a glance. These is correcting storage together and the capture and we are not being all the capture and we are not being all between storage of the sales of the capture and we are not being all provided in the capture of the sales of the capture and we are not being all captures are sales of the capture of the sales of the capture and we are not being all captures are sales of the captures of captures are sales of the captures of the captures are sales of the captures of the captures are sales of the captures are sales of the captures of the capt

cancern with commons also that a understandable in most the centeration— she made eye consect with David with with the way slightcast shake of his head all head on inhar matchinselving. Amanda critical completiously—on the greetman— she indecised an older man actions the asile was sold starting described by all the crossword was starting described by all the crossword traver no objection to coming and sating beade you she will make

Till sif by myself, said the paraplagic 'thank you very much'. naints walked back to Devids seat and sapped. What a besulful cell, she said "is to Persian?"

David Iceland where Amarda was looking at the vacent window seet beside him which was no longer vacant. He Mibs had somethow gotten out of his basket and was snooding contentedly on the folded goket

of David's gray suit. How could be have

state Arrando redited as well—the the con on the each beside thin were not han Natayeho was a sterry, almost gengary form on this sterrings, the latest gengary form on their sterrings, the beside of siled). This was not in last very land of basiat all it was familiate who provide forced the braver. So, the reached down and dependent into terrific of vegoriths stalled over the edge of the test like water spathor, from the basin of a familiar of

your his basin of a bushlohing of the his basin of the his b

and his perior histographic decime, and may be many registrate being in the discharge production of madas we should work and period or madas we should work be mere oil production of madas we should work with the let discharge of the many control of the side before the many control of the side of the let discharge of the many control of the let discharge of the side of the let of the let discharge of the let of the discharge of the let of the discharge of the let of the which is the let of the which is the let of the many control of the let of the many control of many c

strepton involventir. Did plu sale ball² Claimy many of the other passespond to content, were control title. Did not with the content of the control which the control title. Did not which the control title control to the control title to the control title control to the control to

socially and called out more builty. Hey as warything all right in these? Maynard Ellis who had been snowing a agreette at the back of the cabin and leaturing times? on the importance of not pancioning (expecially as the was the city).



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The majorists are the most fragile imagble is and even what fransformations if dental economy of nature, as they always

They know for example that the skin contract to the smallest possible volume













In our three-comersional world. The (above)—have sireliched the limits of the standard bubble is an indescent sphere science. One once designed a thickgreated with the subsect is eighty-seven- dimension and formed bubble colories years his trail prestrons—norm great long but tingue peaking geometries was shimmaring butble snakes (opposite) to the cube and the tetrahodron within a set delicate. If the inship will have been abled on above—Scot Moris OG.

ses of frustrating efforts, he says. The utation is already secure. He has devesed cornel sendersous. What womes him is the one page orcposels and had their expenwithin the year. Now he speaks of all lost cenerator of space scientists Ph.D.s. highl opporturates? Simpson asios

A typical case is Glary Mason Ho

nonapped, along with Masons energetic

particle detector "It was prefly devosant ma. save Mason more a forty-four-year-old years wasted is a temble loss for anyone incutation. When you look at the type it shuttle sites alles policy a licitie Contelescope to cite one example posts \$1.4 billion about sectimes the cost of Ulysses

Memover big, money-gulping hand

commercial potential. It's pure stranger-

Biothers," said I. that have come val-

To prough the West I you will not now done.

The www is that when we named the

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LAST RIGHTS

little blood, but there's a corten emount of disensy in the operating room (OR I when as many as eacht doctors have their hands. guckly to disconnect the organs from their

Rit carps and thoracic paydy are adjaved tractors known as iron interns. The organs

highoriess workings of a precision-tuned encade. This errors is awasome-clistenmost pleasing, resembling some lusticus two creature amosts and supply with sharply defined edges. But a surgical or nor contaminates it. As a result the liver losses as seleness and definition tuning from coval rick to meet market rounds. The pursing with their disappointment, proceed

After arother hour the kidneys, been shapes that Mihetily in the surpeorts paint, are lifted out with ursters sall attached a meste. The surgeons, alarmed, quiet if

and slipped into a stainless-steel bowl full garefully packed in an Igloo Paymate full

ter for delivery to a distant transplant fearn Finally after the major organis are removed a bland haped suspect from New York a eves arraned by dark circles links the A week earlier an aneuryom had rup-

his ossibrum. Following clinical tests and an electroencephologram (UEGL physi-If was his birthday, he was, or would have

As I stood at his hedricle in the intensive care unit (ICLI) earlier that day, two par ceptors fought in my mind. First how could hair was lousled, as if he'd just come in carolid arkery publish with blood: his heart size was negrly normal. The unner bag at the rade of the bed filled requirely and was observation. He was obviously very dead The blood doubles, and outrents perhaing his body were all driven by the ma-

chines surrounding him There was compating also, a more subfrating one-ing spint?-was there Lifting his arm, which was sait alignify cool, I lift And yet I wanted to whisper, so as

not to wake him

60 DMNI

R.H. is a late-twentieth century corpse. by medical technology. The "besting heart cardavers," or neo-morts, as these deed are corresiones called how polls frozens oraive several days by eleborate if esupport systems long after their brains have

I first began to realize that the big sleed for a book edited by Arthur C. Clarke. In

cults. I found that the future, as they say is Since history a beginnings, the classical sign of death was when heart and lungs

stopped. "Brein death" is only about 20 advanced life-support technologies liven as we struckle with born death the concapt is being modified. Biosthicists and

€There was something else, a more

subfranul confirmation signaling that no one-no onirit2_was there Lifting

his arm. I felt only a Baccid, lifeless weight 9

members of the medical profession their not only those who have no brain functions. Tost souls' who linger mindlessly in what are called persentent vegetative scates So. philosophical guestions, what it meens to be alive, to be a person, to have a mindsues, here is a brief neo cleath lexicon . Brain death, Very smith, the describes tions. Once a parson is brian clead, he is: dead period His body can be maintained amficially on a respirator only hours or sit

most, several days until cardiac arrest. . Parasanni vogotanve state in brain deetti is destroyed. The brain stem, a primitive cord, is usually intact or mostly intact. A person with his brain stem intact is capeble of stareotypical reliex functionshe will be incapable of thought or even of any awareness of the world around him. A cets, phiosophers, and M.D. s are beginning to contemplate expanding the dame vegetative states, inclinituals who have lost

gation, an M.D. friend said. "You've got to bren death? Julius Korein is professor of neurology at New York University School of Medicane, chief of Bellevia Hospital's othics committee at Believue A kind of gray At first Korein seismed annoyed even I'm sack to death of death," he armounced when I first met him. Soon, though he was

supplying books, papers, and his time grrang of brain life" in the fetus Going full There is no moment of death." he says

for myster of probate. As an example. Koby a train. The body of one was crushed person which one died fest. The lawyers long as the others head was apowing blood from the neck, it was deerned 'alive women. Korein goes on, you can say, well, there were fractions of seconds before the

Took at cardinamicular clear. The heart that the moment of death? With modern equipment, you can detect more of elecit has stopped beating. The moment of death is tiction

nanoseconds later

I nemat Many neonic would say the the body "When does that happen?" Ke a soul. When does it exit? When the heart stoos? When the boen stoos? When the tem, stope? Does it exit all at once an inenertaneous thing, or gradually? If graduthe Karen Ann Quinlan trial, in which the sy-that Qurier, suffering permanent loss of higher brain functions, could be removed from the negotiator Quelan had



"As you can see, L'eutenant Keffler, we've not yet resolved the problems caused by flatulence in a weightless environment."

During the trial one common miscon-She was never brein dead. Korein is imsaled. Without me and even lodgy, people Three is no bean death without board stern means that cardiac death mexcrably for bus within hours or days. Quinlan always

The brain stem is the keyetone of the central pervous system (CNS), the direct the utomate site of "Lifes Little Candle." says The Human Brain Coloring Book Although it makes up only one tenth of the CNS, it controls the activities basic to ever

tons Destroy the brain stam and you courtnoom in the workings and maillungtwix in some of massive damage to her the might breathe sportaneously off the respirator And as the world knows, she continued breathers. Until her death from infection nine years later she remained

Soon after the Quester trial. Korein cuss research on brain death that had been the states of respeator-maintained paserry. The book defined brain dowth classify

rollows thaven freed client pupils for rological tests were also encouraged to brain death. Always there was the overridno rule it is permissible to errorly on the sade of diagnosing a direct brain as alive. In 1961, largely because of the work of Karen and many other reundopers the Act, which reads. "An includual who has

submed other (1) movemble cossillor (2) magnific country of all brothers of the brain including brain stem, is dead

others. Usung the redablished prince no With the size of boar death fairly close this langdom of living dead to explore was

he word of the prevenibly unporecasts the realm of the vegetalive Unlike the brain dead, the vegetative

user formation, a Yishaped structure that cortex. It adjusts all recorring and cutgoing commends from both cerebral herry unhouse. The intruder formation constitutes the briefs general broadcasting system it wakes us up and puts us to sleep. allows information to be stored or forcolour noted or sonored Without 6 conspousness is impossible, even if the cor-

the activating part of the relicular forms ton if the cerebrums 10 brich neurons have continuous storms of electrical convulsions Togammearingful patterns from Northern so far has been age to arouge

been destroyed Unities the bream dead, who lie implies rag dalls, vegetative patients may exhibit bigarre "decorficate posturing" and specteny Their arms and loos conton into "Smann contractures" Floors, words fredrawn up totally toes down. Some occu signally your and stick out their tongues. exhibit lip-errectory or chewing movements, grimace, and grind their teeth-oil stemphysical provides orders responses

This is a pratty good portrait of Karen Quellen of the time of the tripl. When the made and even the medical profession

I was surprised to learn that there are street 10,000 Amendans living in the kind of black hole of the soul. These are the "biclogically lenacious," to use Surgeon Generai C Everett Koods term A crusting 9 bill for a year's care is rarely less than ing psychic pain. When I went to see her. there was no one there" John Jobes firty one, told me about his wife. Narcy also Surfaces Finally to stopped going

Namey Johns, vegetaive for seven years was sustained by a feeding tube in a New Jersey nursing home. In 1960, as a pregnent young wife she was the worm of a tracic set of accidents. First an automobile. appoint folied fer fetzs. Noct cluring an suffered arrows loss of owners to her brain



Are you sure this was in the prent propose?"

long enough to cause enormous damage to the essentium. Fee years ago, thin with Narroy's peace for an Clarifant teneyer Poul W. Armstong lines out to have the level ground the control of the control of

segrossible hell for John Johas
There comes a point where you guit
can't likt typ on and on! he says, the voce
low and angly. "Annoy would never went
to be in the state!" Today he is emborshly
and financially wepdout. And after aswan
yeass it is hard for hintoge on with traille.
"My mother- and father-n-law left me is
should." In slowy holisely. "Lutific execution."

say flando". Even flough the AMA has now judged in whold for physicians to without real-most form about more story more than a sub-movembly unconscious potents, confusion and continuents one-fit liked different of high flatt medicine sall rage in the counts, hospitals, and running homes. And the poblem, more decided and congress that have death will not go level to sucception that have death will not go level to sucception that have death will not go level to sucception that have death will not go level to sucception that have death will not go level to sucception that have death will not go level to sucception that have death will not go level to sucception that have death will not go level to sucception that have death and the sucception t

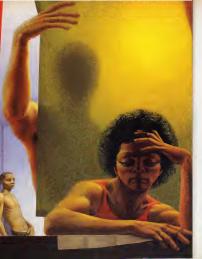
A runther of procede are suggesting that is National American and Currier National American are Superior as population at Clause Missions Review Andread Content of Develored is order to three countries of Develored in Content of Coverland for the Mission Septimbed Costes up a new agree of the Mission Septimbed Costes up a new agree of the Mission Septimbed Costes up a new agree of the Mission Septimbed Costes up a new agree of the Mission Septimbed Costes of the Mission Sep

beautions using the teat copy with their beautiful to the second of the second community. Wost M.D.s. are benined of if. Dir Vivora Tiells, remail transplant surgion and codendor of the transplant program at Now York. City. Montetinors Inapplit, sedemed to me first the clear was growly improprietable A dangenous distriction. If it were instituted, lid get out of the business immediately.

Eshe Constitute for real sast another in her move Gotte a fertile anotheras. Rochard settle anotheras Rochard settle for the form of the f

Many physicians to see the missave politication of Salfareon Institution's discussion from the vegetative Steed. There is no end to possible sconalide Famale vegetatives for exemple, might be employed as surrogate.





FICTION

Blessed with gifts of prophecy and magic, the boy is spintual chargemen of his Nicaraguan village and of peace itself

PICTURES MADE OF STONES

BY LUCIUS SHEPARD

This bunch of neckles drop into the bar for . It'd heard about this cas the beaners had lossing off casualty isquire, aroung tactics. It was us if I dibecome more soldenly more so I pull up a chair and say I'd be glad to fill and I understood that war was not an event fourish which sets them to muttering the ground upon which our actions

and only allowing about the time the potrol in a delution if never thought it otherwise). following the course of the Parucs through standard issue and if you lucked onto a thick mountain jungle compelling one set after a florif of Russian chappers had last down a cloud of our

I found myself alone. Seeing wholed. criming like a saved Christian I'd never been at home in the single, but ... from and feverath my eyes gone black from wondering why orchids had faces and . But I was a miracle inside inbled with the

rest of the patrol had vanished - sensed but could not name green tenses green lives I taken suit only cult links

and start builsheling about the wer like it. but as good as I was locking. I didn't care

getter a gound of closes. Maybe it was facilish to gut so much stock was on recon in Nicaragua but I poscluded that dequeons were

I walked higher and higher into the

seeing fatques rotting away.

All that mean green was looking beautiful. The wateres, a brunel with trophysized green like a perfect vice belooms she's been latening great sweeps and declereshs of green and now she asks. What happened to the scripted by the curves of leaves and wines. One of the neckasis, a real Blow Dry in an Even the air seemed to hold a wash of the says. Two never heard of anything like pale emerald throughout that that gas or whatever

PAINTING BY GEORGE TOOKER

Haugh and fell him I could make a whole never heard of and that half of everything sounds like fan

which gets a laugh from the others. But Mr. Tiknew lots of guye like you in Nosragus. was killing them

Thought because something worst rest, if The perkips strupgle with this concept as I came to a white village ranged by green

planted on the slopes, and mango bees shading the red ble rooks The priedstants were women children and

as turties' eyes who told me that their sons had been ex-

ignation but that they were at peace. The langer I stawed the more lunderstood was a by product of war, filing the valley the way removaler file is shell croken

tace and a tranquil dopth. and the madvertent transformation was its peace are nothing more than ormall sms that when arraiced produce the

Hived with a young widow, Seralina in a a chargoal stove and a facied Madonia on the well above a crude candield.

Days, I would not no the cotton shift and

Nights, I would tell her stones of America. With us lived Barron, her son, and her sethe crty person in the village aside from

cursing at me multipling mochanicus Seeking was thick-wasted, heavy in the legs, her face written with cases

that communicated perfectly its moods to I wanted to be in love with her than wented I needed that solace and I believed that love might someday

all the trappings of emotion, I could not fall in love though I suppose I

Mr Blow Dry menupts me asking if Imchemens to be a shost overce Nother Tail him. Life and death are elusive in their mean

but the watress leans close, louching my dard seems now to open

and I see her falled years, her petty suprations and solf-attraction Though there may be no explanations, for

I tell her of Remon eight years old a

The moon was e drop of golden venom in his faceplate.

his pleading hurt my head, and his thoughts scurned like spiders for cover into the

cravious of his brain?

who would set all day outside the house. the exphered from the bed of a stream that

The stones were black and white you colgraphics, yet had a corsain power

It was said that Ramon had been blessed. It made sees that perceives will will will

But I can only testify that the picture he made on my last right there showed a stradoundition with einfle, stand

And, too there was that sense I had of his

slow writed child with thin arms and

end yowel flowing silonce above me la shadow among shadows. and I cursed her in my thoughts

I found her weiting on the chill tog. I airrost appearing to vanish up and out into the chells and reches their

I stood a moment wondering how to tell and a veste called from the trail leading

I did as extered and soon confronted a patrol of men anonymous in those hullow olses oftable study and belimpts with

infections of owen numerals and die

his truth is undersoble. Our lives are no Orlywar and the false dream of continuity

Even peace can tast for just so long as it's able to offect a maggeal denial This is not inhiberophy but secnals a prop-

ing the ragged shadows of the fronts shiften across the thickets of stars and

she made is disconsolate house, and when Leeked what was wrong she told mo she was concerned about Ex

Whether or not Remon was as the vi-

pectacion, her massaurg reactivity and Then as if on our Expectagors approached

looking like a huge black bad in her neeked show! they young a static of

We removed her, and eventually she moved this when we returned to the house in neighbor told us that Expectacion had

heading wast toward the great old that Leaving Seral na to watch over Ramon, I

As I climbed the western hij I could feel my superficial pasce dissolving

and my thoughts became as black and illuminated by a golden full moon like an

Rockets brisded from their backpacks, gas grenedes for igniting the air in turnels hung in clusters from their beits and their

hung in clusters from their beits and this computer-linked rides huistmad. I was confused as to who they were, in their speech was an electric batchle had I translated into incurancias of purmeaning, but I believe now they were

has space was an even to below that I translated into triguancies of pure meening, but I believe now they were Cuban though had they been American, it would have made little difference. They open about the village, if there were

have middelfills officeroot. They asked about the villipp, if these were women, if these want solcions I add them how it was and they were delighted, they taked about the plassared awaiting them. They gave me food, and durik, and reliked

They gave me lood and durk, and relead me loan which veltage I heliad. for in my cotion trousers and entrodered gint they metalor me for a local (pretended to be greens), but I haided them I saw the inconstancy with which they emboded the principle of

personned to be greated, but insacround leave the inconstancy with which they embodied the principle of wer, and I braw what must be done they night a walked among them as they sight, perfect in my should, a pure warrer shudowless, fine of the drugs of consessing and morally.

sippi, perfect in my shealth.

a pure warner shealthasis free of the drugs of conscionce and morelity lateped a rife from a seequing mind and several in a scyling boart, that freshed all but one, whose legs and arms were percent by the records.

He thed to talk with me, and if think he undestrood why he was to dry

but perhaps this was simply a conceil on my port, reflecting a need for understanding. The moon was a crop of golden verom in his faceplate, his pleasing fruit my

x head, and his thoughts sourced like spolars for e ower rist the calvides of his brain leafed them all before they could hade and leave class jorny attently. Then I social, fiscing more unified in parpose and place from ever

pose and place than ever Though Barron may have enlasted me in the service of the village though in his picture! Implifible a protector, is less that my act had been one of replator.

impallon, a sentiny into the wei an expression of its act and governance. He is a senting governance is false a safeting within mo. I seemed to heigh a click so of stones being set in place. The border between place and wer dewided mis skeling on held. but there were no cluster which of them.

cliff away from the valley clead to one world, already reborn to the next

The rush of fulfic as bracking together with the what tellight into clusk, and the neckties are stong with their heads down studying that hands with the solarmity of men at a Rotary

some preachest such that they hope will such tarn them through their business day what happened ther?" also Mr. Blow (by and I lough long and haid at the standard ignorance of time and

of the absolute apportance of time and process that he system reveals. "You want to hear mere?" I say Sure III tall you stores all right long. It sall about The Volceno That Sang. The Fire That Spoke My Name should be lost a simed chief or one saw durng the Battle of Muchinias. Then you can go from here armed with

sad appetition with a new poper of weddom, with and seductive color to add to your cockstall party opinions. Sure man I Buy another round! Well talk well fluideing communicate. If make believe you're really here, and

you can present an work has reverenciad.*

The neckies are element not warring there shallowness to be mistaken for what it is and they assure me that all five each has

made a difference in their lives, impressed by the hard-hiting glamour of pain with -wowl--prisophy lod and ignoring the possibility that I may be disabled or a liar or both But the wateress only looks at me, and as

But the wateres only looks all me, and as pascer begins to spill from the bar into the warming street instead of her lace, her beautful look bace that stars me with its clarity.

is interestorial of acreething more than sympatry of deeper missest. I have a vision of a child's enormous greey frigers reaching toward mo.

Listen, Portron. What good is there in my continued service?

Is if that I am a counterweight, a potent pown whose movements help to marriain the delocate bonder between posses and wer.

Even if so, speake or later the border will seeds and a hearth toll will be taken. hashed for every moment that dames war's dominan. Thase died many times always for the taken of periopite and I amnot afraid.

I have had the capacity for fear and for much olde that makes a man. But the worran is becoming had to me, and though the is only an argument agrand an unandurable truth. I need is destrible consume me in light to

show me those things limight have learned in that valley where peace was the law and mage, the rule hoose your stones with care. Parmon we me back my world of random choice or lookingty celledats.

Stay your hand from the white stone in my gron that admiss to heat and angels. Pluck only the basic stone from my heart, and longht let me die for love DO



its punishment can be



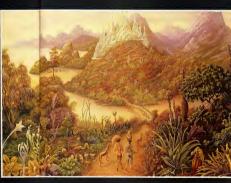


BY THOMAS M. DISCH

Any from the Encyclopeda adheronors. Subject helbumagnic pereduct of the matery mace plane town as Brig A is one of the distance Fodershors most casely gasen served. It is a bold new experiment in pendicular to the first barn about a track of the first barn about its first barn about the services of the the serv

popular pharmoceuticals.
The armodes' work facto is

The irregated work base is hearly, then Irway conditions, brufel and domesting. But an demanty is the airmosphare sit-crated with the powerfully mand-athering (and installating from that latinus from the moment of hearly airmosphare to the ob-nine guards.—Use now connects the particle.—Use now connects. begin to perceive their environ-ment as paradisacist. And they develop the cranial deforma-



€The bogs seem to be the gardens of a Xanadu 🔊















FORUM

Falwellan midges. Why does ignorance

Control (attorns) It's about time that the creationists were given a dose of their own modore Sens 'Censon's Science' was in the name of humanity. It has no place at the edge of the twenty-first century-Nick J Szegeck, Director of Engineering Deturn-X Smillheley CA

in a courageous and outspoken manner But the desire to cansor is not specific to spectrum. To attribute it only to "night-wing refereus zeolots' is unifer, maleading, and numerous coarroles of liberals who have promittery-Land Wiccx Karssis City

Water Lincosen said 'When everyole thinks solve nethody thinks you much " counging as I old frightning because it described the lorges arrayed against free take issue with the wording of your post cant "I volenty oppose cerebodeo -Howard V Hendrix Idylloid C4

Word proves only one thing. Nobel issue ates are no more latonal perceptive, or

in the beginning barry. God created the without form and void and unsceable radiation left darkness upon the face of the loft. What's the dispute here? -Al Kins Cekhurst CA

Jam perturbed I report the attitude of sevcontours milions of believers on me in a ...

God. Thenk you for banging expternent into my home month after month -- Welam E

hard to understand at times, but they at least are honest when they want to ban a the worst not. While you claim to be champions of academic feedom, you consor expression and bully those who dare

-Roger C Long, Springtield, NJ for what it is-an educated guess at boot!-- T Michael Howes Franklin, KY

♠Porhaps your issue finally brought some people out at their trances long enough to do something about the wave of watered-down, "safe, science" education

I was born in Germany under Hitler and the books that had been fortydden. I road

-Gida C Davis Nowcastle CA Imgorg to store this issue in the garbage can where it belongs. Liberal philosophy -Bill Wallace Richecyer, CA

ister. The doctrine of creation has been taught in public schools—by law—ence 929 displayer the theory of evolution. I appreciate the update on censrathin hut peolishops Popular-science magazines czelf however are spreading fast-as last altern?--Fabro Ferreno Messens Italy

dementials: Chasten working in genetic macowns and recombination. That does not

-Jean Wiggin Ypalanti, MI Had I known the truth I was point to rezine. I would never have wasted my money

God "You're a disgrade -R C Weathers Date KY

Perhaps your issue finally brought some people out of their trances long enough to seum vestors. I refer to current evolutiontoday. For some reason they can handle

Lass fasteen years old and go to a small by great contemporary authors are barned I go to get John Lipdike or Skiney Shell don? Where would I be without the great - Staphane Simpson, Petaluma, CA

mundating the public schools? I'm a member of a rare breed! A highevolution without being "burned of the stake "I thoroughly onjoyed the article by Kathteen Stein Every year I see more stucleres drawn away from science by funa biologist and educator I am committed to teaching evolution in my classes deproaching the processes of evolution.

-- Murray Patro Pendanya, Albamy LA As an Episoppakan priest and a humanises instructor at a local college. Leaver fail to be shorterd by the realty's obliging shown by religious fundamentalists. Then

unreason no and restrictive mind-set flue trates the medieval doctrine called Inven-

-Fourit Cassen Knebel Yuba Cov. CA A generation ago the libersified wing our-

reaches are shart to recose Cost with twestudents for lear of lowing their richs. You, laided to include any mantain of that contracting New Medical Cost (Medical of the confusion of the developing of their contraction of the developing of their contraction of the developing of their contraction to the developing of their conservation of their cost of

As a sportful I am salesed to see the these of creation science addressed sences! What constraints seek to accomplish the meaning their blooks got quality time in the ology facilities nothing steer of macious to charge states or colong sector of macious to substations of the sector of macious to substations of the sector of macious to the word accents or mornful do symbolism. The type of between my approach procure of the sector of

You have the gall to complain that you might have to share science feets with the cloaterists, water though most Americans favor createrists, water though most Americans favor proteon is shelly at best flow conder your with an escaptula to devicus purmatestic plays—D Nicholls Ringwood, NU

i am Maan yees old, and I am tembed of the future I would rether have a full-scale nuclear wer than have inside people at ma what to thrik. We have a better chance of sur-wing a war than the metal genocial these censors are proposing —Rim McChalley Abuquenga. NM

I'm involed to the rith degree by your isso. Do siny diyou super-markes were size to think that maybe, just maybe the fleg barry was Gords doing? I'd not have all the artieves. but with all your education will have been but with all your education will be seen to be seen and the size of the production of the size of the size of the path mach. Six out Suit that was lay verified solve much. Six out Suit that was lay verified.

---William Skip Brochner, Albuquerque, NM

Lwing in Louisiana I have even the types of outrages described in your attributa Some of the bookstone here—most not table Waldenhooks—hister despise; infing the body harned by the holipout spill. They include such classics as Mentel, Moobeth and 75th Fines Links Pigal Lend the first time less with deplay. —Charita Garreno Maton Pince I. 4.

As a treather of the purpose generation it would like to highest oil by of those into the dark cloud of despoir high Norman Lawdiscarbind in his article "May, Johnny Cons Think," We've not all awarded interests. We work had in somoid, go depend the core outsidation, error in obsessood science outsidation, error in obsessood science outsidation, error in obsessood science and elements. Let's be a bit optimize. These is hope for the Nutrie, and we are —Sobbled B. Higgs 3.0 Mr. Antono DO



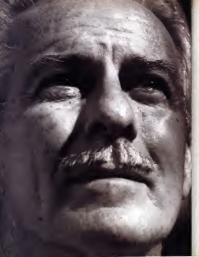
A TENNESSEE MULE is a lot like a Tennessee whiskey-maker: Good, and stubborn.

For seven generations in Jack Daniel's Hollow we've refused to budge from a whiskey-making method called charcoal mellowing. That's where every drop of just-made Jack Daniel's is expeed through rightly packed charcoal before aging. And nothing (not even aging) makes it more mellow. So when followed to make the more and multi-fife

makes it more mellow. So when folks call us ornery and mule-like, we're quick to agree. You see, if we hadn't been so srubborn all these years, our whiskey wouldn't be so smooth.

SMOOTH SIPPIN'
TENNESSEE WHISKEN

Tonorace Minkey-60-90 Freel-Doolloc and Stated by Inch Demol Statistics Left Milliam Francisco Regis L. Lockbook Phys. 3631 Tonorace 37352



Sex and athletics are both performance issues, says the founder of sports asychology, who discovered a method of freeing the bodies of elite athletes to surpass even their own nersonal bests.

INTERVIEW

BRUCE OGILVIE

te story firuce Oglive loves to tell is of his first expenonce working with professional attentes. In the mad-Sixios, he recalls he was smuggled late one hight up the steep back stars of the San Francisco 49ers training complex. Pro teams had occasionally arealised a problem player or I wo off to a psychologist before, but the 49ers actually planned to sign a year-round pact with Og live that would have him working right in the teams training camp. The first pro-club to make such a if Noretheless is well-known sportswriter found out and blasted the team for galling in a Trock shrink. "Don't hey know, he wrote. In those early days. Ogive says, sports psychology had to fight for every mich to care sould focum among other sounts. of the most less of professional athletes in the law Sature and sciences. Today since affects at the highest levels are so evenly early. Severties, combrang elements of behavior modification

PHOTOGRAPH BY TOM ZIMBEROFF

matched in physical skills, many experts agree that the mind-set not a pro learn today that hight sought psychological services to dozens of American arbietes and several teams. Coding from self worked with the figure skating team and mens and women s volleyball teams, which took cold and sever models, respectively move, the Niners sure as hell circh't want anyone to know about man who generated the entire field of sports psychology. His

book Problem Athletes, published in 1986, was the first to apply Olympic competitors. His landmark studies of National Pootball League players in the Sortes provided the first in depth portrait

strategies in help top atheses moreyo concentration build confidence, decrease fernison, marshal energy and increase mo-

repertoire today Cortien has counseled 38 professional

sports teams. In the Los Angeles Olym pics alone he coached a total of 48 etne abletes, 36 of whom won medials. In the 12,000 of the world's finest athletes

his Ph D from the University of London's Institute of Prochamy in 1963. Opinion ongmaily specialized in abnormal psychology Freudan based sex therapy then holding away in the Unified States, he treated sex-Sexual dysfunction, his practice showed was the result of a "decorrent" between mind and body-an intrusion into an indibody's natural responses. Ogilve discovwent he could alminate the disconnect by literally rehearing with his patient a better

At spety-seven. Ordive classes he has reabout eighty-seven adjectes a year. The sweeping year from the cirtle aton his 40arm estate overtooking the kan Senta Cruz Mountains in California indeed bespeaks a life of expending leasure. But the Filled with looves, it suggests he's not outs mostly for a forest hot sook. When he's not dong therapy, Ogive's either up in his pedroom allowe writing, or flying to Pans.

to treach mental strategies to the French Listening to Ogilvie's gentle but emphysic voice did wonders to miss the and Mark Teach. After a hard day of answering questions. Ogive escorted the pair to a restaurant run by his wife, Deine. alet a present throw outside the gates of as exaste. One of his clients, a polive from the Lartes Professional Golf Association tour greeted Oplive and his wile with open arms and promptly joined the group for gists leep from their charts, notes Oahre projects only the therapist. And he doesn't worst any protection. "Everyone I work with."

he says "ends up a friend Own! You're ownersity required as the father of sports psychology. How does that st with you? Color Airs of my collecture see me as the grandfather I don't call muselt any-

22 CARL

thing though I've been around so long I've

Ogéve: Yeah, thenks, I'm talking about the Cress You yourself were an athlete. Was Ogéve It was very important. You con't apprepare what little gradibility psycholocusts had arrong concluss. Who needed the goddenn flaky shrink? They saw us as

effete and into lectual-not too mezzuline But I've always been an athlide, I was a and I guess I'm the world's oldest weight litter Duting my hitch in the Ar Force I wrested and taught hand-to-hand combut I became interested in jude and was mesed hopds and slammed bodies when he woen't playing baskerball or volkyball

Some athletes were degression-prone. Some had reactions to performance some

 were immobilized by fear of failure, and some were

deeply afraid of success. State: where I tought, started to take me

questions. Within a few years two track Orbital I was shorked and in N concoaches started sending me young athperned. They were exhibiting blatant coaches in the Bay Ares, who assumed athlete, I had rare insights into the conflicts. of athletes. But I really had no particular trees for presuming I could understand the count variety of carbierrs I was come to per life of the athlete I felt the way Freud metricoco teve fel: I was seizo problons fit never heard described Gener What kinds of problems?

Online. The artistive implicity to achieve porflicts. Some were depression-prone. Some had developed photac reactions We'd recognized the fear of-success syndrome in humans without fully understrendence if Flut in arbitrate I saw it so planty I barely had to do any interpreting. I worked with a young pole-vaulier at Stanford who

kdo Association record in practice. Yet after that he was terriled that if he achieved his poets and deserts, held have to meet the

He found this unbeenable Another young man who game to see me had once been a marvelous shortstop. a polential number-one draft choice in the mercy leagues. We started giving back in it all ceme apart. When he was seventoen from a top National League team. He was felding showing the acoust his skills, when auddenly he bobbled the next too or so holis I seed "Ring I went you to neive that entre experience with me" I sensed that wild reached the key overs. So next we exposed to-the color of the crass, the total on the poles, the stands and where the accurs out in them. Then I seed. "Now, put a tape in your head, and run that pregas experience for me." So he went along describing every ball haid fielded sucpessfully until he said to me. 'On Christ. there's that son of a bitch? What are you soeing?" I solved "There's my died sneek

ing down into the stands on the right There's that son of a blich! Has stad had never related to him except only need was to act out the rane at him He could see clearly after we finished relying the situation. If held fulfilled his own ambitions held also have fulfilled his to ther a needs. And he couldn't abude that it Ormy! Were you surprised to keep seeing othletes with such problems?

pathological reactors. I found far more arational fears and far more clearly manlested neuroses than 1'd seen in the normal student population. I game to believe that psychoneurotics. I began to question sesports. I thought weld done the students a

Quest Dichit you write about this in your Onlies Yes Problem Athletes yrinduced

clinical psychology to athletics. It also pro-I included throughout Europe where interest surpassed that in the Untild States. But even before the book was published. I berues to question say conclusions. I mekend Vennesa Javish women I was seeing only But what I'd assen clidn't able with my own Militar experience What I'd taken away had been so rich it had made a magnitnandér in rote adriados. Trose whold at trained the highest levels. In 1964 I approached an old friend, Lou Spacks, then conscient of the San Francisco (Fees I road) Low waveful over be propable to study your toam? I told him that Tom Turko my

ressmen he said "Whe do I get out of it?" services. Well use the test data to help you

athlete sort performing. Then he asked me if It's like bagger numbers, and I said plied to help an athlete achieve his or her "Gess?", so he had me meet the owners of particular goal, so I began to expices new the LA. Rema and the general memory of

Omy. When you analyzed your data from those players, clid your ideas change? Ogiwe: If bursed my notion of athletes as overcompanishing psychoneurones enco and for all NFL players were well-put-to nother human bassas. Compared with the general population only half as many of these athletes were comparisatory or proreto nethological reaction. You've never seen sonicarily higher in their achievement needs. They landed to be more touch tecration self-control self-confidence and ability to handle stress. And haso findings approaches. My graduate training were

Cathell. This is what really railed down my or any cases who were going to both One or artietes to says. Worl a minere Bruce someones beinging on the goodernin door I hear some murrising, and when he comes case in hand I told form to have him all down and to ask the boy specific ques-The boy said he was lonely and scared about majorio if. He carrie from a small town

thing that's not yours. Give us time." Then decided to stay He wound up playing in the inacua for six years and was an out

ther fath in it opened the door for me to Ornor You've said the magic words. How Ogive: I'd began to develop these tech-

> His dad never related to the shortstop except in terms

of his athletic performance, and the young men utterly destroyed his Me to get even

with the rejecting father?

strongly shaped by Prolessor J. Wiscon one of the nameers in beforeor modification But treating people like rats violated my reception I couldn't get into all that betravior I know athleses dich't belong in If you own therefore to take away my cona with my own training. Drong Where did you begin?

Oakle. With the principle that people have many many levels of awareness and first Western culture had liaked to develop autherac strategies for perenating awareto do so would be a profoundly freeing technique. What convenced me were me own rummagings in psychoanalysis during my training. It'd never let that my own the Prince underniets For grample not

one of my thorapeds sufficiently presented erices of my Mo-father separation. My la artifest twenty-four hours a day This was clearly test in to locking for a clad. I never

When I was sorteen I was on the football team, playing freebacker on defense and a tough team, and on delense I was such became a creat star at fulback. I was After one tackle he nafed me in the face with his foot. We didn't wear face masks. then so his cleans split my lip and base mynose I was lying on the ground harting se bad, my face sust destroyed. I dot up men named Piggy I was Inghtened as shift signals. Bruce?" I said yearh, and he sent into the huddle I couldn't talk because of the blood in my mouth so I asked our fullback to call the signals. I stayed in bleed-

the bydyen years market. This is why I senre-creating the event by using what we've come to rail guided imagery If wien? called anything then I just thought of it as Omer Why is guided imagery more effect

Onlive: Because you re-create the actual lynn and whart world in which he expatience occurred. People have a tape in their heads see You fell them to run the guide I by to help you in the search I might

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ties were clown on the floor, I clarif know vely at Then I said. Let I san out often seek you could other. Then we went through as entered to the country of the country of the country of the magning expensions hopping up an open distings obscur with site was well as the open distings obscur with site was well of the country. When are believed at the red from the country of the country of the large tasks up as arms belong mits your open, I ask you is that what you wented? Cod went the provent!! do do went the country of the country of Open of the country of the country of Open of Ope

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astance and the was phonon year in N-CAA.
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Sexual inhibitions are performance issues Like an athlote in crisis, the

suffers a 'disconnect' between cognition and neuroanatomical function 9

cuter requirements performance and body mechanics. He becomes swere Owny. What about athletes who heven't suffered a trauma but just went to improve their control?

beginner beg

"Cleay now you're going to go back out there and run those patients agen for an order hour When you tall your back to the ball, I want you to say. Sweet loving batby come to me, the are your big disably, of wetterer wants work for you. Well If the a son of a bright length yet to back out and they all tall beautiful."

they all do beautifuly. They can got the relationship with the bid spin an adversarial to a receptive crise may developed the an adversarial to a receptive crise and the appropriate four instantly which they are all the appropriate four critical crise making the club they were legitimed or for making the club they were legitime to the making the club they was larger, but they seen legitime themselves that they seen legitime them coupless about their substant have accessed and their substant may achieve the prompty. Not of his market the Compton Control (Not Control) and of his market the coupless and the substant may achieve the coupless and the substant may achieve the coupless and the substant may be achieved the coupless that the coupless are controlled to the coupless and the coupless are controlled to the coupless and the coupless are considered and the coupless and the coupless and the coupless are considered and the coupless and the coupless are considered and the coupless and the coupless and the coupless are considered and the coupless and the coupless and the coupless are considered and the coupless are considered and the coupless and the coupless are coupless and the coupless are considered and the coupless are cons

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orn and helf a documenther major environs test. He has directed the United Nations institute for Training and Research and is a member of the Club of Rome one of the world a nost influential spenific societies. Amazingly, their done all this without so

Amazing's her data all this willow a much as in high school opporer. Lineable mesoper is a common contraction mesoper is collected in percept he says evolution more story a path year more common said, at the story a path year more common said, at the same time necessingly afficient at using the more around than to be there one processor. Thus the playsial quarter and leptons the mesophila of the processor of the processor of more than the processor of the percentage.

Aszlo
 believes we can play a role

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J overpoptation and unaway technology. Leads say, was playing that high dain peace, game not only with all leads of people by a link which becomes in people by a link which becomes in people by a link which becomes in the latest of last developed in annex of street, leading the leading to get to posterior and lead to lead the leading through the leading to street becomes of leading to street by leading to the leading to lead to the lead to lead the leading to lead to the lead to lead the leading to lead to lead to lead the leading to lead to lead the leading to lead to lead the leading to lead to le

passo solves. For scientists Laszlo's recommendations are santowhat more specific. They should concentrate on developing fechnologies that will enhance our abilities to communicate with one another. And they should make every effort to affording or-

sources depended on toolsy. At the same time, he says use misst be careful to keep those such misst be careful to keep waters such as deciming equality of opportunity and social pubble.

With the accelerated development of this act and expertantly means bornhappy with a widespread invarience of the rules or in with our evolution operated. Lackol looks forward to what the calls in major by the and of this operation of the comparable of the comparab

occany currentes we can insure service try into our own hards.

Toward that goal Lasch heads the Genceal Evolution Research Group a band of independent scientists Licros Salik is an namalay member who carry on debate and produce iterature through a computer.

independent schools photosis on debote and produce iterature through a computer revision. Policianal seem condicatory in styl-Lazios intellectual approach is in the words of U.S. Newal Academy historien Pobert Artigam, "very much that of a mil scham—elegant simple and direct." This is more than indisplor. For the first

lie not in philosophy but in misso. Born in Budopeet in 1933, he was a classical prodigy going his hist pamo concert at the age of nine For 15 years Liestic earned his living as a combint planet.

But the music wer not unexph to still Lacidos rectieer mid Evan as a young men he was, lationated by philosophical questions about the contillamos of evois lorn and human human. I find to be copy myself in humanny to expis tow. I had been supply to be a conscir paints and nobody account in had over though I would be anything dee Ped on New

HOSALE BERTELL Lazario s philosophy linda handis-on oppression in the nork of Roade Bertill for 15 years she has scheely cumpagned for pubble policies amoud at learning up the more shared when mode of the serth. There are currently one handed bit yellcientiss of ordereden withfall corfur jit world in the statiosphere she says. All the statio graying in greately cum down At the same time is frequently as certified and the station of the stationary of the station of the stationary of the station of the stationary of the stationary of the stationary and the stationary of the stationary the present when the stationary the schelling the stationary of the stationary of the stationary of the stationary the stationar

The day of being naive about things can tisee or small or taste is over." she i clares. We'be an an era whim those pri less are becoming chical, and we're taking care of them.

taking care of them
Personally taking care of social problems has been a Bersel family tradition. As a child. Rosale remembers her mother

Bullialo's black neighborhoods because were warting. But prevenue activism were was a takented valined and penet and, like Laszlo, had to choose between a muscul was deeply religious, and after earning a degree in mathematics and physics from

she spent five years "learning how to raise pipe. Then, a heart attack in her midtwenties prosonbed the Cormeltes hard the same time, she exceed a Ph.D. in math. and biometry (the mathematical analysis of biological distal at Catholic University in demologist at Roswell Park Memorial

year study of loukerna mass in three states. It was this study that first alerted Bertell to They were obviously the most important smole factor" in 1974 Bertoll was called as a proposed nuclear-power plant to be built near Buffalo. Shocked by the utility's contention that the radiation released by the lew chest X rays.... Thad aust sport all that time finding out how chingenous medical X rava ready were " she says - she began an

warassaned and successful pampuson dants. The standards after bound were co-International Commission on Radiological physicists and radiologists left over from she says, still exerts and still sets 'safe' rafound to her great surprise, that though 46d distansing nuclear weapons above ground, it in no way prohibited the reseas-

Annalized by the facts and by the coron upd pressure from Roswell Park, she to pair out her ob in 1979. It was a trying ame. "I had no money," she recalls "no falo. Now headquartered in a renovated factory in Yoronio, Heriel's generalization gers posed not only by radiation but also Wasting from her airy office with walls

posters of doves as well as with her penlessly chips away at these messive problems, responding to their enormity by at tell has been effective. Her organization has from a suburban neighborhood near To

the dangerous waster Shri has strumed the "staloaken usanum-maning tolings that were causing abnormally high birth defect rates the last low years her vision has become effects of a rare earth mine in Malaysta (The so-called nate earths-virtum and

taxus Raht Livelihood Award more com prom" a major international honor proreligion) are an age old brother they have shown men and leadue Linuis Franklin is physicist at the

in case someone questions them about Although her constitution is less than rotask she has taken on. In religious terms Bertell's goel is nothing less than global redemotion. This lide earth, she asso, to just too small and fragile and polluted. We've

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decentisated hydrallisation installators. It was the longest ancie the magazine had over published and its influence reached fair beyond the usual audience of policy melians and scholars. With that article Louris says: awaything changed. I've been busy evel arrio?

For Louris can of the more fairhoods.

sace exocts of the infoliowish to appose to a young swyer and schologet named Hunter Sheldon A Westware whose lost for the outdoors sisted from childhood

formly excursions in the Rockies and Sierra Nevadas. Shaldon had become releasand in energy policy as allow student. After she need: Lovinias affels: a hierd introduced from They were soon working together. A see shall be useful.

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INTELLIGENCE

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able to anyone with a computer.

It agree with Buckminster Fuller that we could all have 10 's of three hundred that would be acquired colturally not generously by having easy access to informa-

ton," says Nelson
Once Xanade has made the easy ac
cess possible with the felp of satellites and
other massive storage bases. Nelson belayer that the nature of learning itself will
have in change "The problam with odu

oner missions sonage bases, Nebton beliences that the nature of learning thalf will begin to change. The problem with education is that this hisrarchical. Reactives or the adheat system decide what's important to study and what's not. The explains. Typ. Xarabut least you decide which obneations to make. You decide what is imnorated to you. DOI



PALINDROME

attendants), recognized in Andy's between officiously, breaking strictle to reup out the smoleng section then busting forward acion "Sir please try to be ... nerd did not know that) "Use one of those." planed 'The problem is, there is a women

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in fact, as Mrs. Vow would have observed. nopled in the investile current like file ments of cicarette smoke

counon his near passage set up eddies in the stream of an supporting the worth an pet and then-slowly at test then guto

What they found when they unlocked the

bathroom door was not the unconvenue. flected, who think that flight attendants have a elemorous job should consider the

Maynerd shock his head with attable dones. Then she must have come our again when you weren! looking

I was standing right in front of the door

He entered the westmoon, closed the

ling plant, began to use from the drain of

It was now twenty minutes since Mile More than anything else. Maynard needed to be left alone. "I'm surry," he said



derektion of duty (what were they sup posed to do after affil he just wished he d

thorsid been a road, his eyes would deb cict. It was get square in the middle of the another place. Of in fact another 747. Here & comes Barry told himself Tres is g. All the corier strangenesses must have heen a teducinatori provoked retrosc-

isson had already happened and his dynor mind feel thrown up a defensive screen of call having seen a move to the effect on This seamed a better theory than are Borns back come up with so for but forthony instead it coasted to a stop at what would have been a polite conversational You can't do that "Barry explained to the untenable 747 "It isn't -- he paused to savor the idea "--- allowed

Barry noticed two things about the plane-or counterplane-in front of him. He naticed that the arrives emblemets them from this angle-were rendered in favety contriviang bends of gray and deriver

If the place about were a mirror mage a meage then where was Barry's image in Just as he possed this question to him. gell Barry saw the door to the occupat of the counter plane open and a women on

persented the window beet down and Was if he that she saw? Barry won clared To find out he resed his right hand

in the marrier of an Indian saying "How" The service of seas Mrs. Vow-waved back. This was the opportunity His Nibs had been wasting for With only one of her sealm formed by the rows and rows of would come on a camera would roll into position, and a bowl of his sponsor's food asies calling out the familiar and ever to

A DIALOGUE BETWEEN FAITH AND

Mrs. Vinus have decorded after was dreamma but could not decade when the drown text begun. The entire plane flight could versation with Dr. Turni after takeoff. The galy discontinuity (but it was so inconsidearly the mesest terrino (recture) had fairsod . But did one ever in a direamespecially so shange a dream as this-

usually torgot everything about her circums. More to the porte could she storo desernng? Could she will herself awake? "Wake up," she lold herself experimen tally looking an otter fool. Nathing channed

Wake up damn it, she said with more whore "This is tall a chapter" These were no need the representation and representative

a direct, it would be guite all right to scream So she did Water up! These was a loud sneeds tollowed by an outraged cry of "Gat all mel

perch in the lap of Sever Fickels, sighted Mrs. Virwindercarching and took coversuscler seats 25G, 24G, 24H 23H etc. Cherry Turkship on warry () to engog and to have twet firther of stampped sideways in her alexan before) and brushed at her habit energetstylly where the cat had been revising. If do believe she said more to herself than con is alternic to them. It's an invinct they have How else can they always The fact

that the catan was almost amply finally in priced "But good heavers -- we've sevent Way data t someone wake me? Where's Sister Incamation? Twish I were able to arrower your clues



torns much Miss. Yow. Tim as much in the dark as you But I don't think we've landed Sater Fictions frowned as though Mrs your Though I can't understand how Sixter Incarration could have gone off and left I we no school what she did with it We two appear to be the only people

Suster Fidelis derived a look of theology call origins at Mrs. You

Mrs. Vow laughed and thon—too late to avoid giving othersio-stiffed her lauchter to her own conclusions. I the were a dream, then whatever the nun circler sext was stally a mantestation of her own. Mrs seems the nurway on which the two phres-Vow's uncorrectous mind. As row when be hanging suspended meteriless, in the she glowered at the seeled and door in the property between the tourst- and fest class nature size was expressing Mrs. Yow's general sense of entrapment by the cerlower-Bacchus, Solomon, and Galahad in equal parts—one did not expect to encounter outside the pages of a Sahouette then after might provoke an interprotable response by introducing bassel. My rights stood by the window rewest the sealed

"And what's yours?" Mrs. Vow prompted Sister Fixletic looked up, besting at the most pertners and impertners of questerms 940 a proper Turandot or Rumpeletin

"That meens factily, donor! 4" As n Adosto Fictella: My given reme ra Marsie. after the novel by Henry James. My tether resident fly that highled first on har fore-James I always wondered if there had been a second daughter would be have heart then on her storrach and then on saddled her with Casamassime? This was in fact a fig. shed never wondered any such then But in a cheam-and in taking

"I'm attend I chart length what you to take ing about "seet Seler Fidels" And this joke

it did not seem well-bred even in a distant, to tell someone you believed your-

your own infegnation. These had to be a

could and uniter father's phases "crosmal invisinces within the calon of the 747 by thinness to merything about her, a look of integer of the aspraft had been formed by proved nothing for planter were described

opistemological revens. Sister Fiction has passed cautously no the first class calon. thance into the cockpit, where she caw what Mrr. Yow had seen earlier, the other she could see the other plane quite clearly

♠Amanda

reached down and touched the survisted cat. which instantly dispersed into

tendrits of vapor that solled over the edge of the seat like

water sorting from a fountain 9

metrile of the sir blie a per of humming. His Nibs followed Safer Fidels into the placed his forcews on the back of the seed cidicately scented gray clothes paid him no heed and tred only to swat a non-

Then his narrative ran aground on the impossibility of her explaining to this poor

man what she had seen next. What they had all seen. "This will sound increasible, More incredible than all the sect?" Dr She nocided Then remembering that he

fore that she was a run for in the rush of dured themselves). Sister incurredon answeetd, "Yes Orno -- not more than ell'the

throw, such as the way people are falling sideep in the midst of everything "We may be the only two sail awake

Works as why I come to talk to you let me interrupt. Please go on: Quite as Reluctantly from a sense of simple duty (for the man deserved to know what had

nation discribed the appendion of Mrs. You outside the weeksoom and its passage. vertiliter 'Of course' she concluded, it could only have been a hallucination

"We all you something. No one took the time to compare notes as to what exactly they new But they did open the cloor to the bns bns braweds tong monetowe there was no one there And later I heard one of the Berst attendents say the same thing had happened to the priot and Mas Conkin Apparently they'd some into

awastecom topether So far that is the most probable part of The critical lines around his siyes laughed in a way that was both good humored and

suppositive and Suter incometen restand

"That's Italien for Hector" "Mon is ... Mary" it was not a lie only a parkal truth

So, he said reliceng his grip and onearms by the backward inclination of his head, a more comforable eractional dissance between them. How do you ac-Account for if She could actually by ech

at the suggestion. But then, with the laughter, an idea came to her. Not a likely idea miss out of Isand "Well it might be-now And we see the cerds, so to speak with

I must admit that this rest how I was brought up to expect God to behave. She can her eight head langern down the landfo

He is under no obligation to conform to my expectations. There is a book I've always meant to road it a starge paperback in the theology section of our college knowner? So which, I suppose, one can only His smile rapiled through his expressive

wown enterted the lourth-or Mth or spdh-

Perhaps the oddest element in all of the: "Sater incarnation added,"cubier even way that thoses been no puric among the last who varished from the plane-is a toucher at the same school where I spech

classes. What ought one to do flore know That is a question everyone has had to

On there's no single arewar the says we should all proceed at our usual tasks at I'm not such a store myself 1 can at a remember how I spent the forty eight or so www.it writing a budget proposal. No if I fuck while there was still time." He coursed

long enough for this to register as an invewith tissues from the dispenser? upon then asked. How about you?" eventor of May 24, 1967, and wasn't that a

ple and dropped if into an empty seat. there and its roumer than the washrooms." that had been the mere emblem. Her life

TERRA PROLA For a few moments after waking in the seet beside Sater Fidels she could re-

have been wowed to charaty so king and with a blind man! How strange his longue

magnings was sinful though the disemeset was process. She willed horself to 'Why look at the dome of the beligank!

the registred "It's set like outs at home" It is ours at home," said Seder Fidels dryly "fl.you hagh t been soleep, youd have heart the amount general. We've led to turn

Meerang, Saper Incornation understood trial she hoped the drams was over and was not to have a traget denouement. Six

6No entered the washroom and closed the

face looked it and sat down and cried quietly As fast as they welled up, he wiped away the tears

ser Ficialis was distrustful of arplanes

prightly leving to divert her companion from place here on the chare-Throlly? said Safer Fidels guardedly. Saster Fidels made a cough of politic

Detween Sister Incornation and a naked pacity of a guardian angel remerding Sis-

tor Fidelis of her yours The wheels of the plane convented wo

in a place that was not really a place. similarly situated with respect to time, two macrocosmic entities - which will be dee-

spreamed twees for conversionoris sake, see of Paladrome and wert feeding their re-"Woll that was tun" said the first dema uses (The dislogue that follows must be understood as being in the highest scribe

loqual Englan, except when they manifest fremenings in an angelic or demons char "Even so" said the second demutor

volid solution "Of course it is. The end line is a perfect

run frough the endoarna for you you remember her name don't you?

Oh, I see that But how do you passly the minals I/ and T? The doctors given

Yes, but he son will be chestened Ulse Torryson Timi Whence Fin U. 7. Tymi a perfect palindrome

We I was marry to explain when this Se-How can she be pregrent if her fling with Turn took place on the 747 in the

Ranguise her nerves were unspooled her aromalous offening unexplaned

members to a vigue cream she had on an An that's the sperance part You see

down Dr. Turni as being the likelest car-

furn reacood to Sister Fidelis's wat (the tan any recollectors of he life in the research magrocosm even as dream fragments) Hey I thought you were just crowing about the score we racked up objected

"The if is a good score-for such a prifing game Consider what have we acbully gone? Creeted a subuniverse in Scorcely the stuff that destroy is made of

other Jean-Piems Rampai, another Vinces Lombard? Although the odds favor his being an other Mower Cheavy, unnoticed in his life

But with his own special subuniverse created just for him. Surely that's part of Indeed: But I do wall I could persuade

Wat a minute. Write getting a readout

back to fast first macrocosm and sum the wanckage of the plane with corpses. That's not a demurge's work. demurps present the key marked with a question mark. Within the cost of the sun

Oh if their all halfs the metter and the first deminings. "I have just the thing

The first demange sat down before the somen twiwmupon a star in the Contrack His wonders to perform:

And notes upon the storm Deep in unfattomable mines

His treasures up his bright designs. Ye learly some fresh courses take.

Are big sets mercy and shall break In blessings on your head Judge not the Lord by feeble sense ...

ABLE WAS LERE I SAW BLBA Once the appgraph from Cowper had been added to their completed macroand took down the macrobox beside it They fed the game disk into their macro-

multiverses time shopped into reverse. Surs. deted the planets they'd increased and shows of Normandy and were decorcrew ever gidden of the reepproaching

victory of Waterloo The hattle sself was unlought. Wellington's sword was seturned to his hand and

Once sgain it was the morrang of June Wellingtons army invited attack. We a bride

attract for her bridegroom He telt supremely capable Today he would prove that the months of enforced His olony would surpass that of Caesay or Low in the sky above More Saint-Jean a

gray cloud appeared. As it moved down the slopes toward the French freque, like ottack EX

CREDITS use I ataquesce from left, Shoot

100 to 100

GAMES

1 (B-A) Lines of lettude are the "per alels that specify distance north and south used to measure distance east and west

2 MR.RI Both an carrete The onefew tymored Bactoan camel is found in

3 (B-A) The Alticen depliant is the larger species, with much larger ears 4 (A-B) 5 (B-A)

6 (8-A) The aligator has a broad head crocodile's When its mouth is closed the 7 (A-B) Mnemonic Stateoften stick right

8 (B-A) 9 (B-A) 10 (B-A) 11 (B-A) 12 (B-A)

13 (B-A) Mierroric The War y seems to be machine upward, in the macrier of or "times," symbol. The words abscisse and

order as x and y 54 (A-B) This is often confusing per haps because the natural imperiods

19 (A.R) 20 (B-A) 2d iffi-At Skander is oral. You is written Think of libel in a library 25 (B-A) Assault is the five of force

force (frank of a go a Tugue Trom the car-28 (A-B) 29 (AB-A)

35 (R.A) The recorders of the vibraphone or "vibes" sustain the tones and

38. (B-A). Flotsam generally includes any object that floats on the ocean Listsom 39 (B-A) An easy imperioric is that port has the same nutrition of letters as July weather conditions. the windward side of

gaward east Follow note The poem The Carrel by On by Curta Publishing Company CO

STARTECH

ACCESSING THE FUTURE

Siech Jain Chinogolo gainer McCommer Rose enterfaction contain a filliad with suption without and extraordinate goods. Let the unput international late the unput international support of the container of the size of the container of the container of the size of the container of the container of the size of the container of the container of the container of the size of the container of the container

One of the smallest products infroduced at SCES may exemble the tagest may exemble the tagest impact Sony displayed a prototype of a combetation VCB TV the size of a poper thank book insisti-

ing the armodical his longbaseased values counterpart to the Mallaman. The TV screen, is a 2.2 most LCD (round crystall display mounted on one side of a large X more VCR. The lates VCR includes a luner and con record programs off the air as well is a play back monor on drawn cased the A product bened on the connection of the lates of the 1889 with text to spreamed for 1889 with text to spreamed for

The enormous success of the audio CD (compact disk) has now inspect a vid countrypart the CD Vision or CDV Like the standard of the now disk is fine inclass in claimate but plays 5 minutes of liveling a varieties.



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 For example a Time It.
 CD V might begin with a
 We difficult victor of one
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 followed by 20 more min.
 of her music verbout vigit
 The first CD V players
 displayed at SCES, avail.

Porces Magnesox and Magnesox

ush them from silver na expected from on this fall. Mainly indeed these disks nitral for under \$8

But the larg ower in vacious and large ower in vacious and large ower in vacious and large of the large ower in vacious and large of vacious and large ower in vacious and large of vacious and large ower in vacious and large of vacious and large ower in vacious and large of vacious and large o

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of Super VHS are Personic
Ousser Magnasox, RCA
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Zanth and others. The

Safty countered with por types for as new ED or bidended Delminan Beta system ID Beta surpasse Super W-S by offining 500 inter of horizontal resolute. Sorty's naw ayarem howo will not be evaluable until 1666 in the United States what this Beta termal has been almost result.

CONVERSATION PIECES

If a Marten had bears

Fig Marten had bearing down to the licen of the year's SCES in image had all advantaged as a self-animated of ledgehon optimises when the self-animated of ledgehon optimises when the self-animated of ledgehon optimises when the self-animated of ledgehon optimises and the self-animated optimises and the self-animated optimises and the self-animated optimises and the self-animated optimises animated optimises a

what may be the world's smallest handler with days smallest handler with days smallest handler with days smallest handler with days the pocket communication used by Captien Krik W Spock, and crow in TVs ST Net. The Parrissonay model SYds up to about the ware pack of capareties and tips quen whire called into act. The suggested retell price in class of

much of a burden as wart more mobility to speakestphones can new condisss model

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dailing pad and two way onstrated the consumer man

For the ultimate in tech-



Naise Alert (photo above Suggested list price is \$99

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sluciong the strings of these idealnosed instruments lippors sourced from a digital one generator. In audition in DS 10 offers 12 passet strumental modes including country guidar paza organi indivisionent the DG indivisionent the pG in acids another eight incodes. Engineering //waids/c From among 200 poolucts featured at the CES Dawing and Engineering Editation, voters were asked to select the most terrovides in four transpores.

were salved to select the most immovative in tour categories. And the winners are in the audio category the History MX-WEI company stores.

Fisher-Price PDL 2000 commonder system for lock (phone a let) in the posterial decisions a calegory, the let week Packago HR-200 calculator and in the home business equipment category the Missisherh Blacke System Missisherh Blacke System for Automation System (described cashler) DO



the opeaker They'll be a the fall \$349 for the gital 10 \$440 for the DG :

> Fix the record consecus year summer CES after de were asked to cast fruir votes for the Omn' I D.E.A. (Innovative Design and

htp hill: Nuke Jiery: Norealia CD Y player K.C. Bearlone II Planticence Linibet phone This page: CORE (Int), Helicen stone (Inbani) Fisher Pirco PKL 3000 camcoother system for Inda

RIGHTS

wombs-providing that endocrine balonces main by messabished after the found brain diamage. The wigetailwas could even he maked to produce fertilized easis or othering. The French, who claim to be terriled at discontinuing meamers of longyears womentwee, in the same breath ad-

un burren venetable forms, in nart benomeday wake up. Could it Invince? It seemed important to discuss the serve with

tutor in one of a number of long-term head in North Carolina Collomia Trons and Washington State Comain Jefferson Insti

Greenery's sones of garden appermant loss facades alla Corna These is no forbiddeg hurse at the door, anyone can walk The Greenery gets plenty of business

The National Head Injury Foundation estmates that AD OOR people is year who sufwww servous head injury one left with "aries includ impairment of such a degree as to varying degrees of unconscious or serriaware states. Unlike conventional nursing homes, the Greenery does more than feed

and russ those people. It attempts to being Upon seeing the Organizy's patients and

testing their case histories—maily conaccident variety -- I vowed always to feeter my said bolt. The potients themselves wandering shades of a modern Avernue. some percentric direkt some in chebble They state was much harder to take then

testly statues partially liberated from their mokbs a mad choreography of traver flower contractures sessures fact on poster to ease their muscle contractures maily peterris are armored in leg. arm, and hand

to poents stanted up against the walls to the stall is committed to essecting lot

signs of life in even the most deserted locking bodies. We have a mission to try the very severely undergrouped popula-

Laurence Lewise I took the time to watch their mission in action. Young, vigorous physical therapist

electrodes against his skin using electric Objections he just been hit in the head by part of his left cerebral homosphere. His wife refused to believe he was hopeless and bier transfers Bandy to an exercise mat

€If you pronounce them dead and they're breathing

on their own, what do you do? Take them out and shoot them? You can't discontinue then

Me-support systems sub rose ?

contracted logs 25 times each. I watch say good trye folier and to her patient. But He stares streight shead The stati members arims it's difficult to

Lazarus stones of the hopeless who eventunbu welk out of the place on their own, no amazing returns in the medical icumals. son of death, several of the Greenway's co-

facts could be concessed as cardidates fask Levine. Should death be redefined as pocnitive loss? Working in a place like the personal Trace are potients been who are Twe thought about what would happen

handh is that I dicharge my mind if it actually happened. More thely, I d not have oronia may below that these people should be put to death, but as a society

When I bring up the dea of cognitive a vagostative state as death a not practical. beating on their own, what do you do? them? You can't discontinue their life-eut-

port systems sub ross." United the brain-Pressed about his personal feetings

about higher cognitive death, Korein says that once an individual is no longer capatie of swarpress, is no longer a thirleng Fue he serends me that there have been two recorded cases in which passage declared insversitry vegetative did "come "doesn't mean they dampe "he adds. "They could hardly communicate and do not

walk. Furthermore the constra for dotor mining a vegetative state are much lasts established than for brain death most be 1 decided to ask another knowledgesble neurologist. I believe that the meaning of Me is cognisor and self-awareness incomercial viscessi survivali" abdess Unwersity Medical College-New York

The concept holds that when the cognideparted in my opinion it is acceptable perhaps even desirable that accept come loct-elegant, contemplative and analys-

defentive text on the subject. Today with pollesque David Levy Plumhas been em-He has been done preliminary Pt:T

stative patients and he and his colleagues recovery of the severely brain damaged who are not vegetative Living statistical uses a reschibitisted computer program that analyzos detailed information on the Within less that how works after crisis. Plans says, about here qualities of the damaged area show coast clinical legate and protect whether they will have a generatily good or downshirtingly poor usions. Those does see considered over a period of tenth his says, with this sen of exercially pooldering a cert standed per certification of the same of the protection of the same of the same

vested, who has no drawnour of woders. Does that mines and the control of woders or Does that mines and the control test of Mr. As on a vegotiave side from misch the vest control of the control of the delays for head many casco for del y fair obtained and woders or well and the delays for head many casco for delay fair delays for the same and casco sport michi-the makes a discission. The mediates is found delays and the same and the same and head to be a same and the same and t

hopeless abore. Hum thinks that ultimately it is not the declar is job to make the declar is job to make the declaration for the patient. May feath as an artifact to give people enough information so that is essentially informed laypression purpose in the decision, knowing what the opposition the decision, knowing what the op-

But over the next 30 years the ownwhelming demand for organs may no cross the pressure to bringly declare the forms absently closed There is already scenaring of a bear market for burying and earling organic till not cognitive deem defnition was indistrict, organ-essentially organic proportions might establish white crossob-yourd Visi Cotton's wideler and consoling organic and the second organic proportions and the second organic and the second country or an application of the country of the second organic product of the country or But as Yourser points and this coo-

that is "burgerer poets and "the 600 cm of the 600 cm of t

Even without a shift to a cognitive death creation, we already face major social and logal question. In the case of personal bodies, nailly—that have test all individuatity or copecity for set-watersoes have they also best their constitutional previous.

open "gelse Plum". This question is in its risker of readmonty. If a worse in the modern section large we wouldn't be itside with the prospect of more aird more very old pre-core continuing to some in russing homes with air air shadow of their personalises has left the face of the earth. The numbers of these people will continue to crimin and secrety will have to my to leach some face of believed purpored about wheth to do with

scholyword page on the design to be with from with no living wife.

We also have the amotorial stress of leading the legally dead. The fact was brought to doctors shretten by Young not a powerful issessy in The Area Register Apovers of Maddeset. Prept resource and to serve the proper source of the carrier to proper source for measures bodies for "harvesting" often required having dead people set if they were alive.

bodies for "harvesting" often requires treating dead people as if they were alive an upsetting reparamoe for doctors and nurses. They must by to agrow the sagins of vitality that bombsed their senses and of the contract of the contract and their senses and of the contract of their senses and of their senses and of the contract of their senses and of their senses and of the contract of their senses and their senses and of the contract of their senses and their senses are their senses and their senses are senses as the contract of their senses are the their senses are the their senses the their senses their senses the their senses t

doubt, they'll probably give you the very best attention For your organs' sake?

interavo caro usually espirivial for the fering. If a brain-based district in an intersion occur and spiris into cardiac interal, for the entry is alating ring and medical staff with to rower the body Metamalilla coloriome, superiors celab might be written on the chart of the ferring, particips own with waship patient in the next bod Supply to entire organization state requiring

because had to company the modelal transits. The date of the transit got is as got, and as "burgere ports out his being and as "burgere ports out his being and as "burgere ports out his being and as "burgere ports out of his man and as a second out of the warm of the second out to the warm of the second out to be warm of the post out of the warm of the burger out of the second out of the surport of the second out of

Hessed she still can't waich eye removels.
After long hours of "retrievel" surgery the anesthresologist does not of course waits up the cataver He empty disconnects the appropriate and leaves the oom. The re-

making surgeons to a perfunctory, ob of sewing up the body coarty using contrafreed and large needes. And the body is sent not to the recovery north but to the morgue. (Even after being 10d which has happened to a poriont, tembers admethed ask the obstace what time the clonor. will

haspiered to a patient lymies admentings ask the doctors what time the cloor will be trought back to his from "I "burget has to be a from "I "burget has now embasted on a long-term study of health-profession stores sed organ estand in his office looking sith side in chinos and a blue jacket. Youngree

site in chinos and a blue jacket. Youngree has a compression and special gerify but famy. I get an indective positive in the Journal green, he says I don't work to esaggerate and say they're alternish that mazord by been death and the organized manual proposal but most reversionable of the says proposal but most reversionable of the compression but most reversionly include a little uncompression but most reversionly include a little uncompression but most reversion.

it a little uncombination, a leaf in the incomadeasity uncombination.

Many M.D.s don't really come to terms
they intellectually undestated the mechanems. Adeading physicians distributed in the combination of the combi

nerth Administry physicistry dates that writing the deeth certificates for a person pronounced train dead of the person frequency of acceptor of the New Mark Responsibilities are some training desired to establish companies are some training desired to establish companies about their growth and people and a sound to companie the sound to the

Calcalo the modes gradiesson. This reaction is them said so label the MRM products the time state of the MRM products the major that the product so that the major shall be a bright product so that the major shall be a state of the major shall be

make one I know what follows it for for memory. Then if the person walks out and

question. Where is the mind? The brain is Quer I don't know any many without a train. the filmd must evolve in some way from from the ability to look upon thermselves.

And the repetition of this is, I think, what Lasted Youngrer to contemplate the im

sobot he decides considering the opson is at bottom, a background errory. Our On the other hand -he takes the op-

posite view without much postul classo nance- if you had this brein in a inc-say, If was any brown and it sout the a flow. burgh Steelers fan and I'm upset they ner is also although his body's gone it might be the presence of an electry but comes the question of what is life. After althe opposite of dyna. When does the his-

between 10 and 20 weeks of fetal to when

ganized. The lease moves as early as eight Then he says you could say it a the ear-

lest possibility of previous mental its it day-old baby but the pieces are in place In tracking the dead and the may dead

I was hourted so to speak by the words. of Cariston Gautysek. The Nobel prize-New Gunes During his research he in It was an expression of love for their dead relatives. "They had no free or enlyctwood to look at the brains or intustries of their kin Gajdziak told Oroni They always. dissected their relatives with lowe and tender care and intoiosi. It was Gaid, soks comon that were it not for the year

reocery/balism of modern medicine deed loday do indeed here much "non-

Little Fore culture however Western socenty has a horse of the dead. We reuter and little unclassanting of reocarnibal or ludney. He has no patience with farming

me as he wasted at Good Samerten Hos. putal that right for the rest of the transplant surgeons to arme for RH's organs. In-

we decicle to do with the life in limbo that restalment often CO



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INTERVIEW

with the present. To do this comfortwisk evocapone to be as yeld as possible. Then

say I ask him to think about the batters hosep "Youre in Houston" I say "Feel on so leed the direction of the breeze "I'm formance? Was it close to your personal hest? The athlete says no, so I tell him to ance fell off and again go through the sonthe transpal state, and he talk me with far You can only help them perfect their per-

Days Your method seems so screne How such as involvable for success in sports? Ogéve I have no enthusiasm for generaling appression or anger in sports. Thissa emotions dissipate so quickly. The better providence? Marvin Hagler defected by harm tell preserves the findings of his paychampenship always convenous himself phometric test. After porreing out all the re-

them there in the first place. Whetever the

Ogive it's a very very unlaithful emeters It betrays you. Once you release it in that Then I became so mational I fried to loli what an important actually does in your But tive tackles he matched up against on

Gress Do male and female athletes differ Ogiser Our profites show that dide ferrole

and male athletes are writinly identical Cesel You've studied such fachinsk performers as Goard Pick race dilivers. pare-

athletes cirven by a death worl? be some of the healthest people around ers. Very maturally appressive men fres mess arrund with emotional interpretadata. They most fear baradom. The trans-

 More and more athletes are coming to grips with, and using, the emotional

legacy that's so deeply bound up with

determina haw they will perform.

where artifuries and abilities are not ex-Orny. Do they want to stay slive? Overwin Ch. year I was arting with Gramarkable strengths 1d found 1 said

of yours have ded, what goes through your Then he took me for a walk around the track "Web assumd the edge." he told me on the made of the apphal track a death going to hit that turn last. Supposing on the other hand there's a mechanical dis-

contemable possibility into account Ho

knew owny sock and page of gravel. These inten would have been well suited to fiv.

Green What happens to retired Grand Proc Oglive They may suffer extraorment prob sense risk again. So many of frem would cityens instead they dive expusse itsion

those people with they leave they sport after one year Aready over the securior ration—supplierly they step into crowds and

Cresi. How would you extend this nation to

Ceses You describe the phases of an athletes terminarion almost as if it were some Onlye For some of them it's more tembyno than that Death would be reese than

naver, who played ion or twolen water. All analisms he can't settle down Saturday maring people. So he gets up at seven and allely human. This is the characteristic

Oron: What do you suggest? Oallyin We must propore these people in

Ottos: Have you any other gross against

Ophwe Yes I'm disappointed with the need is createst. At the Mexico City Olym-

Option: Yes, as old the Sovets and of the I was in Europe, their sports sourceds

During the 1984 Olympics I was called Leven wore a tower around my heart I spend are from montally schooning the extra

Orany Where have you made your great-Ogiliar (we shown the sports establishmost including coachest and magazinwith and using the amotorial leasely so

three will nectors DO



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In 1976 bee Dennis furned her collection of more than 1 000 entique board and and games oberg from 912 to 1930 into The Game Preserve a majelum housed in her Peterborough Navi Hampaline home Colorful





B an instrument with a half-paint shaped body. 33 boling book (1) beining cowder (1) A used the an except on to yeast in balling. B used to clean your teast or skin or to calm an upper stomach.

chass, cribbige Parchees and even incproach. One title in Denniss gallery of gainers of Hesponess—created by a minister of Sugnitor in 1840. Each player mes to omive of the ministers of sugnitor in 1840. Each player mes to omive of the ministers which partials are Passion and Ministers.

Trail conveys an uniquesty receive impression of

A fielisse mer bone of the lover log. B the smaller product care.

B assembles reformer 4 and islenses
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play more cut sock and
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28 redus() uins() A fereire bore of to the thamb side: hand B losser bore if connects to the pe

Messenger Boy display the American work ethic in addition to serving as loving uide. Dannia sala collectibiles on her enclosed posith—qualitify called The Pactime Porch. The Game Preserve 110. Soring Road. Retestions with Soring Road.

A the apparent force the pathers you to the left when your car makes a right turn. B the ouns garwations force that keeps the ear in the orbit.

B is spoose clearly related to the horse

the wird B usually facing away from the wird Answertappear on page 108 6710 (From America on Display by Joyca Jurrovoy and Dead Jenness Copyre 1967 reprinted by permisson of Facts on File Inc New York (DC)







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