

SACRED ARCHITECTURE OF THE NEW AGE





DOLTOR IN CHEE & DESIGN CONFICTION HOR GUICCOME

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3 believe it is unter to torbe militoris of

When employers assume the highliteafter complaining to the Nuclear Requisi-

workplaces, but drug tests do not lead to

place in a free society DO

### CONTRIBUTORS

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In Nuclear Reactors (page 40) Joel Days reports that a pore group of true on a new generation of nuclear reactors

And responsibility for that salety is being try's ability to gain public confidence. The problem is. Which reactor descrimen one of several radically new systems-will

While disciples preach the groupel of withtents is delying into the past to create creates his soigurn to one such templefigures prominently its designers, called

As children, some of us were tought and cared for them. Should they, then, be vessets for a higher purpose? Before Aramale" (page 100), a story by finice

McAlsay Then expect the debate to "Life of Buddhe" (page 52) Shepard Warome (Bantam Books). Now tucked Shepard's biographical data not intensinte. Where then you may see, does artist

a tale that weeks her fantasees to Verlinde's page 94, and there she is atpan, examining Exysten mummes especially the 3000-For past issues, we commissioned

subjects as diressure in "Tyrannosaurus Sex A Love Tail (February 1988) and 1987). Primarily a come step artist and painter, the 1fty-seven-year-old Embleton created metaculous and pensistal angly detailed artwork for come books like his "Galant series-- "Galant Science

"Gallant Adventure" "Gallant Detective and "Gallari Western" He addressed including Stingray and Captern Speriet and the Materians. Embleton flustrated adult carloons 'Wicked Wanda' and "Sweet Charlity" The Bresh newspaper of Oil Painters To which Emblisher was shared by maturDO



### LETTERS

### COMMUNICATIONS

Stars and Stopes

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Gus Johnson Swarten MD

Try, Try Agein
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appeal for judicious modernty (Continuam February 1988), may infer my
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lease our street-below.

> David Gold Now

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Voter, Water Everywhere

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Leo Uzych

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> Blad Jordon Water Facilities Supervisor Wassion, E.

Standard Ovation

bit constitution between the words. Fabbulary 98(8) It is inhipening to resolt the someone in the U.S. Senate has had the might be address the issue of brinding for costnote. The mead har is consumed, between days from the properties of between the state of the consumers, between the state of the consumers of between the state of the consumers of policy meads afterbed in in Congress.

Credit Where Due The credit for the priorio at the top of page 30 in the Masch 1988 sizue should have read ±1966 Mark Hallett, all rights

## **NUKEBUSTERS**

## **FORUM**

By Great Levoy

community of 17 000 passed a legally beging ruckey free the city from revesting in or purchasing from any company doing nuclear weapons General Motors for police squad cars. fee Chrysler Currenty the city bossurer is assessing the banks that hold \$1 million. office coupment and phone services to shopping around, ofteens review and loss of paperwork to determine who a municipelity can do business with The larger the The NFZ recovernent began 30 years ago in Handa Japan Although some

5 DOO NEZs have been created in 26 has been dismantled, not a single zones established in the United Statesbillion-a-year defense inclustry 25 percent of which is nuclear race, says D L Hamilton program

for the increment. Hamilton may be not t. initiatives have laided in every community tive more measures senously Drager Laborationes, a raidleyr weepons prime target of a 1983 nuclear free Combridge Massachusetts exterior pbs basic research and tax revenues Draper chipped in nearly a third of the

more-based intervational clearinghouse

making the opposition campians......at only a 60-40 margin In a compoun fund-reservo lister circu-

of its hore that we have to battle rather than the first of many" Cambridge, however, publicated defeats followed in Ann Arbor

lost in Monn County California, last your General Electric and Wavenchrauss-the county earthuring-it earned skotrily College and president of Good Money

Publications, an "efficial investments outh: Mann County's welds aren't companies are a better investment of fen nuclear weapons corporations and an nonfucier weapons corporations rose 1244 percent. 'Delense contrac-Marron Anderson agrees Director of

Employment Research Associates an money is sperif in the civilian economy The \$190 billion military buildup from 1961 to 1965, she claims, post the nation

ences than 1.1 million sobe, teed up 30 cut of the caviers economy. More detense money is sport on machinery than on left the economy for good. "Military apending is a trad buy for other and for But it isn't bad for national security defense-spending advocates say And

Thermson called it stupid and un-Ameriin shepres foreign policy—everything from cunrees trade offices Admittedly the NFZ movement's economic effect is mirroral. But the up it declaring ones nuclear free doesn't

public debate may OO

### DIRTY POLITICS

## EARTH

By Cathy Spencer

to a good living that come November, we won't be varied for a President on the basis of his over-Ahelming concein for the environment. We piled as number of the nations towned service mental groups, and none seemed certain that any of the frost-curriers would be up to tabifying he serious ecological issues facing an locative (instead, activate) have taken to contemplating an environmental dreem carriedate. Hases what he or she would do.

included an included and a control of the control o

may or may not be around by the time, you lead the said or dens?

More President George Buch has been dubbled. The enhancemental diseaser by activates in port because he has overeit to outport the populos of Proced Reagan. For the posts sept years Reagain has opposed all legislation to control audit and, vestablish Calair William Act, and approved the Claim William Act, and approved the foundation of the load the control and calair approved the foundation of the load.

approved the foundation of the list remaining slog-good forests in the Mortiwate. Block Evairs, appoining in the Mortiwate. Block Evairs, appoining in the Leggue of Concentration Voters cays, if we fast that is Reagon activities put socials it may be already as even mu. socials it may be already as even mu. occasion and in extraction put be a such to open up the Victor Widtle Reago for a certain g. Maybe Bloch wouldn't week quiet areath environmental hance are Reagon in match removemental hance are Reagon.

and should be done to ensure that quality outdoor apportunities continue to easilt for our new generation of Americans." What Bush considers if "quality outdoor opportunity" is not all that clear however Sensition Blobert Dole news Daniel

When Bulbut coverebre is in paties or obscored on openating in set all and colour towers of an openating in set all and colour towers or openating in set and in patient in the set and in patient in the set and in patient in patient

problems of the environment. Apparently there's little norm in the platform for environmental assues, he hasn't made any statements concerning the environment Watern feel, concerning the environment. When the Leegue of Conservation Notices, submitted a lost of puscotions of him he wiswed to respond. On this tegions and Convenir Assessment Section 1. On this tegions and Convenir Assessment in agift call of a to help build need the section in might do if a for help build

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Dollarks and Bush. Who will stop the reign of pollutants, pasticides, and tono westes?

90 OMN

### AN AMERICAN SAMPLER

### ARTIFICIAL INTELLIGENCE

Hobert Neuman

I age fairly four music programs and in Albahov has classical to become a partition provided in the provided in become a partition provided in music fragmental who care electromically determine whether one musicant has reproduced sounds from another musicant capyinghal According Materialy's business sent becoming—yet—but he may leadily in two oppyright infragment statis pending in New York, and other cases are undoubtiedly on the way.

cases are undoutpody on the way.
In this endoutpod became it status to the service of the servic

into one of their own becos. Mikhoning shows a Seppe (sisk confuring previously sampled countes into a dark drive and using the Plable House of samplem—the Synciarum—he saledos tampan from a farther decision on the monitor When he strikes alway on the Synciarum is passed by the sound of a deep belief driven resources from measure with speakers in the can do the measure with speakers in the can do the measure with speakers in the can do the

massive will speliaters. He can do the cannot be any note from any instrument in tact, the can vary the upsth of each note and street for of boson line source and which or of boson line source and who have been any political or and any particular and me those sources to make my own chastor. He says The reproduction of soldated sounds is well by cought or the missis business.

widely accepted in the music business. Musa programmers build large libranes, or brindedual gounds, everything from a note played on an unusual African tolk. so. Own. search Cham 1 "Part of what you're treat to her py or councid" sign Manhong who was one of the first muscars to enter the field of muscars to enter the field of muscars propular in 1995 the backing at lowey programmer may buy sounds from the muscars who created from or sample sounds from compact from the sample sounds from compact the "Pau could use that inchinality to line "Pau could use that inchinality to con a metal or for them" for excitage.

and fly if into your own composition I don't do that." Others do copy longer passages though and that it where Mithorary's

distortive woll contain in Whitin his is asked to lingerprit sounds he must first identify the two passages to tex compared. The suspected passage will usually be something that the aggreeof museum finited accurate the familiar "That sterve museum, though, might not remainiber where the presenge occurs in his over whose the presenge occurs in his over

bens stooling one another 8 s

determine if it is a likely candidate for sampling. A sould bursed introng other instrumets or voices a extensity difficult dries impossible to looker. It just car'll be separated from the other sounds. "But" task withore," if the ound is lising out in this open and I trad it on the other miscious's recording, that's a good indication if was littled!

Other the samples the caramers have

phoses for exemple, might be sursurched by dismit. Then speck Michany, IT has to this in the second the sound is the job of the second the sound is an pet in of series the sursurces. Exioren they cross over each other, and therein not much you cain all. Once the original and the suspect. It is supported to the second second sounds have been soldered. Michany uses

y sounds have been soldred, Mahoney uses the Syndawser in grade the characteristics of each sound. After matching the low starting poors and selling the opening padded to match each offer, for programs the Syndawser or graph the reference and the Syndawser or graph the reference to sounds. What is not shall the two sounds match, the claim care of copying it losses likely has Mahoney will take the graph of the fest then before his view in the graph of the fest then before his view in the graph of the fest then before his view in

what extent the recording industry is

irrepred to sample DO

### NURTURING NASA

### SPACE

By Linday Van Gelder

In minute compose walks and hard roll on a first M-2AU-men. Personach Center Dir Yourne Personach Center Dir Yourne Classreader gosse into hosekses model, coffering mags of flagmant apple-Auch tage and elece of branch schedul apple-person curves beat bagis and regions sporter as the portional the most prison of the size of the composition of the composi

water—along with many of her colleagues in the associated held—believes that women are now at a point where they can not only competit as equals but also add a unique perspective There are more women in space

add a unque perspective.
There are more women in space seland careers today than ever before. Sell wastly outnumbered by men (with minority women particularly investité).

many can fel horse stroke of tiskenism and oxide fel encimelation. Est fine industy that popularized the word manifest as an adjochts definding a human prosence is increasingly "womanned". Sally Reder histor flight as the felt American woman in space as the first between expensive but the Strenster settinate coops new here 12 women including the first stack formale candidate. Mee Lemipor. The number of firmale constraint and

This turber of femile expertates and organized replayed fill film by MASA has reser to miles than 1 percent in 1974 to reserv it processor table, although filliams by reserving the reserved that percent and percent is proved from the percent and percent and percent and percent in 1974 to power in MASA activates awarded least year to women-lowed businessed with the percentage of the design and percentage of the percentage o

During the Sixtes and early Seventies when the women new moving into key positions in astrospacio were growing up, there were virtually no female into models in fact, according to Macca Smith, a Library of Congress serrospace speciales who recently served as serospace. tive director of the National Commission on Space and is a former president of this professional group Women in Aerospace, many of the female science stars of lodgy bagan as secretaries.

"It you were a woman you had two

chance. Type or reach, ladde brands. Forman, a senior policy advisor at a major serrospace manufacturer in Los Angeles. One of the flav woman who aid come to promise on the space told before the Egiptive was Ellions Gallowy, who reconfly received the first Lifetime Achieve-

Eightee was Elene Galloway who soonby rocehed the fast Lifetime Achievement award given by Worren in Arrospace Now agithy-one also has been dubbed the grande clame of space low Galloway had tought policed source of Swaith-more College on Pennsylvans and was sensing at the time of the first Sputial laught in 1927 as a reforce deliverse

Congress Congressional Research Service Gallevier Let all firefand a right on guided mealest for the Smale Aimed properties of the Smale Aimed herstell cast in the field of Sparker separt. Within weeks of the layorth them-Service Lyndon, Julinose head has following propert bearings on Title Miceled Celebia properties Carry Miceled and Smale and the Smale of Sparker and Smale of Sparker and Smale Carry years of the Smale Carry Smale Carry Smale Small Smale Carry Smale Small Small Smale Small Small

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is the integration of spools activities with the furnishes "Today our most upont, and unsolved problems involve those or ortical scannes—management (especially hom the top lavel) of spool activities, organization in the securities carefully, and the rate of the government estimate the productions of the production of the production of the state of the production of the their no matter what your discipline is into going to be althought by appear.



OMNI

### LONG-DISTANCE OPERATORS



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The medican poly you into the selficions bry ceasaling cubots and give you a quick CT (computed formography) soon.

Desiring the 3-D images of your addoment.

larly consisting cuction and gray you due. Journal (F) (corrupted intrography) scorn. bearing (his 3-0) magain of your additional that dash. The List analysis moreovity your solar confirms the Houston declar is diagnoses and lattle the medical here levely to go shead with a classic appendix to you have with a classic appendix to your list time to go you either the days, and they do a missic cere your mouth. The leaf their you was the third opposition of you have the solar or groups and it allows to the form of groups and it allows to the ...

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ONTRUCTORING VIS



### CONTINUUM

## WE'RE SORRY, YOUR TIME IS UP

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### CHEMNOUTEON

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indicative excepts of circumstance place of four to eight inches below the above surface. The levels of these below the above surface. The levels of these estapes in the Groundand show wide-able that the essurements of the property of very recent longer, and since no aboveground hundrer weapons tests have



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The opportunities of the control of

--- Bil Luwasa 'Living is more a question of what one spendy rishfer mae what one makes' --- Mercel Duchemp

The only difference between myself and a medinary is shad J am not read?

—Salvador Deli Today's robots are very primitive capable of undestanding only a five series in south as

Pedestrians never seem to ealize that they are a direct to he sealery of cars?"

—Thomas Sowe



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-- Robert Frost

## CONTINUUM









between 10 and 100 times.



### COULTINII ILINO







### EARTHQUAKES AND CLASSIFIED ADS

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GLACIAL ICE CUE

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In is over oblicating should all small hosberge por trip. The Japanese prize the lot or its clently shall both shift he cracking pape it ames as malls Dimpand says hell rown no trouble selving them.

"To swort dispassor we have not only to basich men to make things but also produce people who have complets mayer control over the things that make "

th the light balence you and he world back the world" —Frank Zappa

Myther are public cheams leans are private myths" —Joseph Compile



### CONTINUUM

### MATERIAL: WOO

It took NASA thouseneds tooker and hundreds of house to come up with the right materials for encourage that sheddle a plaunities obtained for the Apolic opposes low density sittle ties for the shuttle Now that the Chinese are getting fail the business of space frey have disveloped their own brand of heat sheeld is also to calc. The Chinese have report

The Dorsean bear separate from the foreign and the foreign and

cork shelds in lauriching some of its ballistic meaks without any problems —Devera Pr

th the exception of molecular wonders at the existence —Anthur Schopenh

gnostros la divok that we have become progressive smarter—Thomas Goldal "The falles which a man

those which he didnif commit when he had the opportunity"

—Halan Rowland

SUPER HAIR BALL

contamotation aggistaped became Table a has test, but this one dicht have a hare in it in line one dicht have a hare in it in the polyayanes and makes retherly of us call Symbom? The paterns achretised to a fondiness for noticing on polyayaness cupts a new polyayaness promotify obtained occurs promotify obtained.



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muscles restructured those bonds to form a glass. Helimuth a self-busing th noson in the laboratory in the meantime he issues a caution to latent polystymomanics. Don't earl Styro fearn, he says "It can be harmed as to be a fear to be the says."

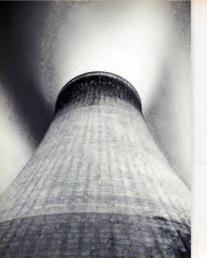
—Bill Lawton

Realism has no more to
do with reality then anything
whe "

—Hab Brown
The large brain she rarge

—Donald O Histo

CHN



ARTICLE Solar power's still a dream; oil's an economic nightmare, coal is just plain dirty. There's lots of



## **NUCLEAR REACTIONS**

it is a longy gold morning, and liam in the - conferous forest currounding the eleskirts of the tiry town of Satsop. 40 miles west of Olympia Washington. The huge national lot at the Sasson nuclear power hand hete in a red pidiup truck zoom past. concrete structure, a grim periody of the Power Bupply System or WYPSS (pio

ing a cup of coffree No he says I cont sust wander ground but I can talk to the public relations person. When I find the PR mans the man has gone to kinch and will be back In the Seventies the Witshington Public

PHOTOGRAPHS BY MICHAEL KENNA

councid by come as whoosal, between the building contact process particle many table to the substitution of the process particle many table to the control feet and the control f

Some Management was opposite the property of the control of the Co

That a is lot of electricity hardly the rags olying industry.

INCOME, DERIENTO DET

URE or not Allegation storety in Excorring, indexindred light bable are comcoming indexindred light bable are comsolitories, and the storet in the storet in

Chevi

and we impound did follow worth of oil in a PST Tart's 2 in good consideration on one seedward in the Possian of the State of the seedward in the Possian of the State of the State of the State of the State of some content of the State of the State of some content of some some content of some som

tion-4 percent-requires us to import

s no energy problem, the developme sucher as well as other sneegy sou

As of last
January, 109 nuclear reactors

were operating, another 14 units had received their construction

permits, and two more were on order—all slated to be in operation by 1997.

well not move further Tanya Hazold Finger, president of the LSCEA. This country has lifed easting capsory for future electrocigorisation outside of aid of-turning plants. When the crunch comes well be forced back to but mig of ear if we're fewer forced back to but mig of ear if we're fewer fewer.

of the Seventies INTERNATIONALE

build nuclear reactions—do admonvicing that thesis is a initiate in nuclear power development in this country. But oversoos or data for our sections desirement,—as vote of confidence for the industry in general and for American stantistical flow well related for American stantistical for well related flow with the boiler in a coal- oil, or gual-atuming power plant, and 1991 poduces steamhodmal a turbine, which turns an ejector generator.

an sector genessor.

Courtee like listy Spain and Jepan are working in varying degrees with American reactor comparises. Great Batter is building an advanced US-style LWR The Sowets even before the accident at Char.

note, those the American LRC. South Komes referring the polatical (MSR than American control processors and an advantage the Eupercent in the control to opposition of the debt under ground of the earth and the the Eupercent in the control to opposition of the debt under ground and control the debt of the Eupercent and the Control to the From Bargars to Bayess Appetition to State Enfoyt Testing and the Control to the Control to the Control to the harded minds platfair in 41 courses aucention of the Control to the Control to

and IGS are in some fam so Severny percent of these is ations on Americas stands A HOUSE DIVIDED

Very few people in the inclustry disputathe fact test business on the force fact is block. What they charged on in the header design of the fauther—the desermanchine that samples small efficient and, most important, sale enough to convince the American public, once again, to with nuclear The installed debate ever which model.

John Grateen the Westington DC representative for the American Hucker's 50 celly, describes the division in religious terms. The old-time-seligian people company executives and some enginess—control the nuclear lobby. They believe the United States scen will need more seatons. When that beoppens, there

areaser as in advancad various of the light, water records A smaller group of ideal femines commits that which the LMM has only of the end of the committee of the LMM has obtained to the committee of the commit

secritoria-boleve Americans will never accept light meaning again. Three distinctives a light materia source again. The meaning again the meaning again the meaning again and the meaning again again

Nuclear Erai? and "Nuclear Power The Second Coming" and "Atter Chemistyl— A Powerful Vision.

They place their hopes in the newest designs. Celled. "Inherently safe macters those use laws of initiate and ample pre-



# GREAT PRESENTATIONS THE OMNI SUMMER STYLE GIFT GUIDE



The process of the control of the co



fithe nuclear Lazarus is to rise again. According to the old-timers some en-All reactors use laws of nikture and sample principles of physics, "save Goldstein," it is does not mean perfectly sale. No nuclear

safe." They all however, hope that one of

its longed for massaah

YANKEE DOODLE DANDY

The standard American LWR is based in part on the design of the highly suc prossurized water seactors (PWHr) and bolino-water reactors (BWHs). In any ruclear power plant no matter what type of reactor if has heat is produced by the lis-

storing of userium atoms. The atomic nuneutrons, which are electrically neutral. It That process is called fission. A fissioning croppion nucleus minores amoral centtrons of its own, which cause other nuclea to fission, releasing more neutrons-and so on The result, called a chart reaction. produces vast amounts of energy PWRs and BWRs use the heat gener ated by nuclear freson to power generation in a PMB water under crossure of

through the core where it is healed Either second closed loop of water. A BWR op woden in a similar backets except that the good deapty to the turbines. In both types core is bathed in a liquid copiant. If the core to flood the reactor and cool it down. Lightto steam or is lost, the neutrons scatter it is their impossible to sustain a nuclear chart

Even though LWRs are protected by active" components—cumps, valves, provert emergency generators or errorfor emoments cooling water, 4/ WPs world? they shouldn't be, and valves can be use crayly larger supplies of emergency plaged it incorrect positional; and empcooking water would be available larger neous computer commands. The result the Three Mile island near desester and other senous ricidents, such as the cable fro at 1975 Workers were trying to locate the

tally broke out, destroying electrical careactor at Chernobyl-the only one of its kind-was a hybrid a positive moderator

design that used light water NEW AMERICAN STANDARD

tuture LWRs should have more passive safety systems—usuto retural physical from occurring. Karl Stahlkopf is an oldtimer. He directs the advanced light water reactor (A) WE) perguens for the Finding Power Research Institute (EPRI), based in Palo Alto California EPRI, a research-and-

reactor designs to develop and the design recurrents—simplicity salety and an watchwords at EPRI. While EPRI is working

 I never thought I'd end up quoting Edward Taller, but he ald act it right when he

sawi "There's no system foolaroof enough to defeat a

sufficiently great fool 9

designs. Stahkopt says his organization has placed for promy on a national program to create possively sate ALWRs for the Neretes and the twenty-tirst century. Future ALWES, according to Staffood typical 1.000-missiwalt nuclear plant with an LWR has 30,000 to 40,000 valves. Many Nouring a motor, controls, remote readcuts, and other equatment. Many of those systems could be elemented Shrikool contends, because simpler systems are being developed. New ALWRs would be components, making them cheaper for utility companies to buy Iredead of pumps.

from the core more quickly, and the power density of fission pores would be de-Westinghouse, in conjunction with Burns and Roe, an architectural and enomeering also developing a safer ALWH. It's called the AP-600. We've proved that this resp. Joseph Sudol, project manager for the reses Westinghouse and Burns and Roe ex-

they think they I have buyers. "We've had expressions of interest." Sudol says

The designs of the present TWRs and ALWRs, may not be those of the future Three other types of reactors that propothe names of integral fast reactor (IFR) As a projectype, the IFR has been around

col (Dile in the country The unlable roomheat away from a hot core more effectively the core to the absam generator. Even if the reactor pumps had the sodium will shill carry jurarium and plutonium in a wrapping of in the reactor gets too high stopping the fission reaction. The standard reactor uses gyramic caste fuels that return more heat than metallic tuels and do not easily de-

Propoperts of the IFR brac about es "inperfected at the Argonne National Listiopatory in Idaho Falls, Idaho in 1996 retoris ability to shut itself down in a major appident. After conducting a ligss of flow Your Chang, general manager of the Argonne's IFR program, concluded. Spec revespapers, including The New York Teres and the Los Angeles Times, as well as by tor's sodium pumps and even discon-

The temperature of the sodium copiant core of the reactor to expand shutting down the fasion reaction—all without op-As the reactor core and its fuel rods expanded from the heat, the utanum elenuclear chen reaction was gradually reduced and halted. The test, Chang says International and General Electric have althe future. Cheno says. To maintain the "

opplant itself-what

cerned Scientists, an

Dego formerly called sometim analed in lay and shoon carbate. The

the gare. When it is time. witerse heat the exact type of heat buildup fail As fuel heats up its properties change and fission stops. As an added safety measure bets made of boron can be

carried away by natural air convection

the HTGR design however the coolant is Dean antiopsies another potential disaster withdrawing the control tods from Heat produced in the core after a shutresult could be a runaway chain reaction

resulting in a melbackin. If an HTGR is run down Liquid motal reactors however are

Three HTGR reactors are in operation

(called AVBs) in Wast since 2068. The first in

design "We hope save

comprehensive plan this year for devel-



cannot escape. (Water reacts with graph-

CHECK DYSON THRESPIE OF THE DOWNS GAMES CASHEFAND SCOULTERS SHREVE CRUMP & LOW

means one enclosed week the containment week each them at one supply of boron-free warm whether the time water to be a supply of the containing the containing the coll values would selv an the prompted of thermal payment. This highly-in-density broader waster largering. This highly-in-density broader waster selv yours water. The density afterwance and the highly of the association waster waster waster to be supplied to be ordered water would flow mis the come theretay pumps. If the pumps are the come the containing the containi

would be needed. Social as PIUS needer felt for any reson—electrical blashout operator emtencers attack conventional ear—event injunitionally what telled filt and cost felt down. APUS needer would cost for a well by retained convention before more with would need to be eithed. And that can be done to a law resonance felt and the before to a law resonance felt and the

pit hydrati-type connection if would take anny a law manutes in PLS has won praise from Alm Wen to a direct his by a nuclear withhold PLB a ought to be invulnerable to acts of sabor lags and were, Westbang whole in the BLB.

The state of the clade B PLE is present by a life best of the process of the clade B PLE is present by a life best of the process of the proc

thets also economical. The old-timers are simply not commoned. COME AGAIN?

Is a Spoond Coming possible for the nuplicar power industry? Some people fer-

is a Second Corring possible for the proventy happy in 50 meter people for verify happy in 50 meter from year, continued to the proventy happy in 50 meters thought all the province of the province of the province of the province of the province affects of the province affects of the province of the pr

inherently sale deagn, you're transferring the requirement for perfection from the operations to the designers the says. If this deagners were angets or robots. I of teel better about the likelihood of success. But designers are as fallfulle as anyone left.

gard dangemen were angele or orbobis I offer beilberd discussed bit for the better also the hielehood discussed bit for the better also the hielehood discussed bit for the better bette

power good or bod?" According to an October 1987 Gallup poll 77 percent of Arencams believe inclean mergy as reporter in meeting the country's future electroly needs and 25 percent believe that the nations need for ruplese meeting will increase in the views shaded The Gallup results are considered with recent feedings by Carrierdige Reports the, amonte mage relational polling parts the, amonte mage relational polling

rucies overly will increase in the yeaschead. The Salay results are consisted with recent facilitys by Cartrodop Report II be, anyther regar results polarie politic to any other results and the Reports found. "If per



If you wish hard enough for the thing you want most in the world, you just might get it—and chance your whole life

### LIFE OF BUDDHA

BY LUCIUS SHEPARD

scheduled a road on the shooting gallery to conlocit their protection in manage, 440 colors headed. Pitts Masses, with corn the places, was if you hadter the deep off. Dealthin many and a well to argues, and Pitts had based that copes were checked by places. If you don't assess man now when they based on a five that had be your person when they based on a five that had be your person when they based on a five that had been performed.

were consisting a superor stitlede, and they have instantial togligated your head. They had brained head had not be death in case. They had brained head had be death in case, and had brained the hadden complained, the never complained about myrings, by their during the hadden had had brained and hadden complained. He never complained had been considered to the Engineering to the Superior to the Privace word described to the hand of the hadden had been considered to the superior to the Privace word described to the hand of the hand good over all those just for the hand good over all those just for the hand good over all hands just for the hand good over all hands just for the hands just for the hand good over all hands just for the hands just fo

sach is delibed errolleging. So on the neight princ to the September must Prise were downstains is where Blacktes was nothing or in alternal midless by the Stort door and sent. Why down you having not given as Tatoos place is sentiment? Puleo, in covern counts to do they from an of the according to the country. The country of the

heavy sided a get and the longer rings of peaks in was overaged primes single from the best from the was overaged peaks as significant the best from the was overaged peaks and the side of the peaks of

PAINTING BY BOB VENOSA



address the service of the control o

There is in Defaul more new and I done business wif a lotte to but I am I never met one meaner cell. You sell him he before well

del. You sell fern he better weach he behance y understan? "Wengite". "Pete turned and with a labo-

"Wolf ..." Pete turned and with a labonous gait dragging his bed leg mounted the stains. You come on up round two and get your goodnighter. If out yo our a spoon

of Chara White:

—Precisite it is and Buckha.

As soon as Pete was out of sight, Budcha lay down and attend at the flaking gayshwhite paint of the coling. He picked a sliver of paint for the wall and on white

he had been so bill of himself, so takin, with his writer and his fine clothes and his will he would be and his will he will had districted the had districted the had districted the month wone people who had cared about him. Destroyed their without neaking times dhown he is sman into an early gaise of him he is man into an early gaise of him he what to said of hid got an activity but then had come up digeret guilt own what he will have he had come up digeret guilt own what he will have had come up digeret guilt own what he will have had come up digeret guilt own what he will have been an actively the had been and the work had been a work had been and the work had been and t

dead dreams so strong they began to invable your waiting moments. Guilt was a months against which the only distinct was object. Once he had decovered that think he had accign clothwar with the fervior of a converted sinner. He had had be fill himself but had not been able to muster the necessary couses and extract had he could be done.

book after to muster the necessary couage and inseed had known all bridge. It hadon and the maltines in the shopping gallery. And there he had discovered in other half. that has life was in head a local of oblevor. that it was carring him size are simple employing him of direating and marriance. And of guilt. The content sizes created under some

marrones And of guille of the common services which support su

an overnight bag her breasts pushed up by a tight bre Her parro—a long hared white kid—was

that tore out your feart guts and hellowed your heart Guit was a monster;

the only defense was oblivion 9

the door and they brushed peat him. Pote round? Metilese asked. Buddha pointed up the stars and shut the door The white kid granted whopsed to Marlane and she supplied. John third you look like you could use some low! she said. What say you come on up, and If give you is sweat and for free? She

He remained stent clerying ideate and humilation practicing being the rollsing she piecewood He had become particest a growing indicate but desire was still a problem. The pluring upper stoppes of the breasts glearned with sweet and bolived had of juins. She tarred oway appearently schamed of howing tassed him.

white lod up the stalls.

Bushins plucked at a trayed thread on the matrices the heave the history of its overy stain inside overy the first thread the formal plus the first plus the source of the matrix of the m

matries had become a unity of place and purpose in himselfed to stall and by garg to sloop, but it was Findly ingelf and their would be to all many outstones to many material basis dockrobs, but it stall unit became a greenesh-gold saw sparking within a many outstone. Waterbold is with anound and sourced growing propries and brighter. Convergenceingly has shought a brighter Convergenceingly has through the control of the c

All two-ordicals basides double-bashed for does and well-up passed for the popularity for the well-well-basid part in combine care with the popularity for the combine care would not passed for party delivers are delivers with the popularity of the passed for the passed possel to this passed of the passed for the possel passed from the combine possel passed from the combine possel passed from the passed p

sould not the first signification of Celebra a very series as trouvern problem for Pata. Be to given or in the areas seen bound out and not be set werent much that come in the control of the control of

Multime came out of the bathroom, watering in comoid green role. When the learned over Peter the halves of the role in the learned over Peter the halves of the role in the great and the Treads harge for exacting, a dise from the lawn. The needer in the limit of showed is a speaker on as far. She seatibated Revisi neck with a clump of cot, to and held the needer a peeter on inch or two leady. The halvesness of the light, the factions of The halvesness of the light, the factions of

inguish the wonglicibing shatteve in the floor, foo sharp to be red. "Seen all for getter these through that the same not necessarily and composition for earner in the same i

o Trete growing peositive

Pete growined and twelved about "Stop
that shift "Marlene snapped." Want me to
bleed you dity?"

Other people closed in around the best

lationship by flow. His tone grew even

recrutable when at you is is ignorant? heart the pure flotation of China White in Alnca, the one pleasure he allowed him

horse! Geographic, from drugs and

Solver, in Alms and dashias respect that

ows darked when they walked Smoke cooking fires. Beyond the village stood of mist in whose folds miragelike images

lake a fish floated halfway between the b) he came face to face with it. floating a

The lish resembled a carp and measured these less from its head to its tell, as overlapions scales were a muddy brown. with which it was custo familiar for its swotreality Budchs gazed into its eyes, and fear begon to flow. The deaths of his wife engugh in availor planets gates combodies married by an miner of making

while awake he would have been over-And before long he tell asless in the mate of the plante terrent contened contained in lum within his skull, within the restance of degrees—the flattering of an

The shooting gallery was located in the Hundreds of outted houses still stood as memorals to liter went, and between thom-where once had stood other houses-lay vacant lots overgrown with lot adjoining the shooting gallery, Buddhe. a cloudless blue sky in front of the sota.



cans were scotlered around it. Buddhs sociald ha ashes the grill the care, meanerwed by the patient help formed. Stress expassion in the distance is meitide distraing seemed to be issuing from boyond the sky, and Buddha list himself entirescold firesky, and Buddha list himself entirescold fire-

sky, and Buddha list himsel enhiched for desnelses king of a runed world in which all deste had fathered. He had been siting for perhaps an hour whan a techage boy with a feedly comwhen a techage boy with a feedly com-

He had been eiting to contrain an how when a licensing buy with a fixedly complexed like Peter came running along the advantable. Determine the save and the save

against the ash heap.
Less than a minute later two black mentan past the lot Spotting Buddha one shouled "See and come this way?" Budtha create no most.

tha made no reply

"fall em I headed toward Case" the kid
whispered urgently but Buddha mantaned his stence, his look of concern

"Yhear me?" the man should. Tald is

ket come this way?
"Tell em?" the boy whispered

sycone sec normy. The wormers and after a secord set back in the direction from which they had come. "Darin shood You shoo some chanced" said the boy, and when Buckths give no response he added. They come back, you just at these likeyou done. Maybe they think you a dummy. He weethed on the ghere biseter and sigmusor lossed out the volume too low for

the words to be wut before
Buddeh blooks at the boy, and the boy
grimed his nervolances evident deposit
In make of certifications. In and the same that the same boy
And the same boy the same
And the same boy
In the same bo

ry out Buddhals hidden meaning. 'Can I uitalk man'?' 'Nothin to say: Buddha answered

"This cool Too much buildnith rither an anytice."
The boy remended Buildnis of his younger and fard this disqualitied him the held the sign to offer advice and he know advice would be uselies. The buy is tree was speled out by the anger lying domain the end this mouth Buildnis prind him buy not polly with the sign of the sign of

Hey! yelled the boy "tou self them inchaluckas where I'm at 11 kill yo ass!" Buddha kept walking. I'mean it man! And as it in defence.

as if he needed some help to verbalas in the boy famed up the ghetic blaster and a gassed voice blaned. "Don't legen to the shuck and live, from Chairman Channel

Building picked up his pace, and soon the voice mixed in with the faint sounds of a wifitio, distant should other mixed in the sociod into the toubled soo from which it had surhood.

From the should paylery to "Stocols appartment should have been alous it awaring remote walk but that day—30 modeled by the stroughest with the bage-Buddha cast he term in half he had learned half it was my possible to each manufacture and that it was my possible or to do contain the goal, and in Tabloo the half learned making the experiences believable helping to be the cooperin that provide the label of the sale When he had from that Tabloo seven waster factors.

◆At the center of the lake, a fish floated halfway between the surface and the bottom, like a single thought of a hough train

thought of a liquid brain Its face was the mask of a lugubrious god 9

prefty git and holding down a steady job all Portigs Medices Three years also when he had next run into tern. Taboo hed come out of the closes

correlates and frough homore testments had developed a mail pet shapely per of breats, whose experce he had from the world branch bose fifting bothers. Buddle had dought a gimpse of homes bears by second having once assessed his business having once assessed his business when you are derigue, and offer his chance revealed in his bosh had seen the miss as combater as to be a second or second or second or second consider—Boath his del one weatour like

oriological les buthroom entre need existe inquis ancial les the chance reventation. Be been talled lessel upon imm as a certificate in occasionatione. Entre Blouchins had well occasionatione that Blouchins had well occasionation that the second properties and the second properties of the second properties established the second properties of thing. It also os especially were surrang warm of the thing of the second properties of the freezib does such had given ham as on who design of the second second properties who design of the second second properties the second properties of was the "though provided Buchleam with as " solitary memores together Tabon would don't see and a dress transforming him said into the semblance of a beautiful young when the semblance of a beautiful young suade him to follow his miner directives and proceed with the final stage of his sea change. He would single long and head chairing that Tabons imagical powers would make you not be forestered.

transfermeten feling fabor screep of how wordsricht in new life was the But Taboo for was deathly alted of the surgeor's limit, and no make the fabor screen feling specific limit, and no make the fabor screen feling specific limit in the fabor screen feling fabor some screen feling fabor some screen fabor screen feling feling feling fabor screen feling feling feling feling fabor screen feling fe

In living pools. The walls were guarted to beserrate is that way despiced with fully write a cleads and the floor was carpeted with an efficial great in fibroids better on where he did the besting, it was an hysician right. The walls were liqued with cooking right and walls were liqued with cooking right and state sind is despired in the control of the wide were below, and the charact upforcised in black without Black drapped had in windown; a black safety give cowned the ingo create the common table, and after for had food it was those that Budde is an observer.

aboo was not not one pocusion he was wating for Johnny Wardell to show but even so he estisided a fermine bossly. The soil lighting spetied serviced plasma to he choolate skin and inhanced the delicety of his high cheekbores and genatios mouth and almost-dispace eyes, the When he leared floward to respect But other wort his time of his transital crinicals.

make out his mage, a desurtance like heat hazarinthe air areand him.

There definin, and Taboo (A) gone Your hand back the way it also seed to be the best Air the bottom rested a wurnkled black thing like a back. To be on the hour like the bottom tested a wurnkled black thing like a back.

and direct it with a towel. Where the wart had been was new only smooth skin. Bud often bouched the place if lifet hat and smoled bittle from the hetts.

With Johnny & Nutry up is and Taboo 11 bounth a new dress I want it was find as

Within you by it on now? If the buzze goes you can pretend you ant at hom. Cause I just have to clost wit, him later and no faller what kinda thous Johnny bu in then.

in than

Budgha had no need to self faboo why
be had to deal with Johnny Macdel at all
Taboos resson for nisring himself among
the bad dogs was similar to Budgha nis-

CONTINUED ON PAGE



## •It seems as if the chapet's ceiling of intertwined ribs is a gigantic amplifier of the ancient stillness that comes from the earth itself •







also tracel fat from the highesty. Second to facilitie from the property for the property of t

July et al. mare that my purity is some ordinated by the purity of the control of the production A ugin made such control of the production A ugin made such control of the in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis sho in a very brog time. As per basis shows in a very brog time. As per basis shows and the control of the course made as per participation. The account most are per time of the account most and the course of the account and the acco process of the holesty and marries

ierons he vide valley haved the Sardor Creatibility and the Sardor Hard Sardor Seal of Sardor Sa on my left surrounded by a highly mancured gelf course, then low modern burgolows and a report index, and finally the Baca Grande actionment. Like a dreamer deappointed to swakin mba aempler seality than his decent. I know

which have a medial my destination which have a medial my destination. You have a medial my destination of the Sen Lus Valley as the certified of he world. Thoropoun less me the next day as the donor end agree of a medial medi

here that, firms began in this gentile slope From our position on this gentile slope where bird states a located we prer over the magical wide valley in stense. The sun burns down on the flattance casting deep shadows upon the risked upheave in those that flores the surrounding mountains so hand above up that they are papped with him above.

Thompson guides me to his work in rogless—the Lindsfame chape! As we alk no a circular shutcher of rock and rord is server as if the intensity direct. agains, amplifier of the amount softwise is no comes from the cent is self. Teller the some rectains of delegit such less than the resident in the Peticelities caused of Spenior in central Amélesia subdiregacind sides of Spenior in central Amélesia subdiregacind sides of Spenior Cocca and Enhance Catherdrain in France. These the massive buttlesses support a smaller infestioning of storic not wooder risks. Indeed, "Proughout the Lindestone risks—a series of herodome studies and tested—a series of herodome studies to tested—a series of herodome studies to cell earth and prodescular session in an in-

of earth and architecture results in an inline most of susmedness.

Thompsorts resuld, beautided face is
harsformed by a lived sended face is
harsformed by a lived sende earth or
special. The chapal is safely
special. The mamous into the deep is
linear TI's red like that missipatine Air force
Academy Chapel in Dollards Springs,
which represses the spant of technology
which represses the spant of technology
and the origination occasilment is earth. The

sounds a seen here as measured in nature and risk in a condition of escape from it. 
Though still funder consistation in the term of the other less will yielder. It is consistent on the term of the other less will yielder. It is consistent in the less that the condition of the condition of the condition of the other less will be the product of the condition of

They carried from food appears or all and the property of the

Geometry is a way by which the assemble creative mystery is rendered visible. The passage from the unmarkest pure formal idea to the hime-bollow—the world that apris out from the original divine stroke can be mapped out by geometry. The geometry through which the ideal

world clin' be represented as enything but same let some sort of the unstand it may some seem like some sort of gennels numbers as spirals evolve from triangles and have certified to see the source of the seems of

wowth to represent spraked concepts like the half yellow or comme the The Texture that half yellow or comme the The Texture set of the half yellow of the texture that the textu

the Trinty of Cod is well as with the most mystical of all or othercords shapes. The pyriamid The square represent screedial its and the base of the pyriamid. Seven is the most source of runting because it regresents the principles of this real! the sum of 3 (male) and 4 (female). The philosophy behind assered architec.

the leading artists and architects at the turn

So the uniturored,
sacrand geography may seem like

some sort of numbers game in which squares become circles, spirals evolve from triangles, and proportions represent spiritual concepts ?

of the century Many proups emorged, as the sense of the century Many proups emorged and second of the century of the second of the century of the second of the century of

almost lines. A for of people think of a se is socied place. Souther Claim also incorporates some concepts of secred architecture in the art. One of the works is a model of the oarth that encases a huge geometric form

term at Empter Stand South Africa Cleanians, and the Control with the small term Control with the small term Empter South Empter South

to implied small mentile prosection.

"When I look at the ancient world, at all the stores alignments and sides like Scroe-hope; says Ears, I see the works of pea-by who betweet that he earth and oos made are sected. They were plugging into that with everything they made. This is what I mit yang to do."

This increased proposed proceed services.

This yarge doc.

This interest prince in sound arether and a service of the prince of

Lawfor had unged Thompson to lenge consimeration in the chape. No obscioussion only proportion The said it filed that I Thompson explainer The said I real and that the principals of sector primary for lawfor moraques to Sharifor shariner and chibbs cathed gain of the principals of the control of the chapter of the principal of the chapter of the principal control of the chapter of the principal of

at the heart of stances protesture had properly and operated and properly and operated and protesture and all and protests and stanks. It has been a soll additionable and stanks. It have been a soll additionable by the true of operations and protesture and control and protesture and protest

search into Lost Knowledge Organization Trust which according to the literature, studies standing stones and other Noo binic structures Criticities. We other secred architects past and present family believes that them I was beginning to see that it was this

makes people unessy Even adherents of chapel But now site repards the ideal rather than as representations of fixed eternal truths. I study geometry because

ambiguity and otherworldiness, she be-

rome culish symbolism of numbers and private code known only by an elife and Theodysic Intrales. That closers I work for

her to educace proplet feelings. "Geometry is as good a god as any other" he true god is guite another matter. As I see

This uncertainly about why a building really house makers. Were normade who

bees for ristance... hat are builders by

haps that is why we revert to systems of The mosting we see in the world is crobebly many a reflection of ourselves then Time. Mins cuest for certainty as in the

Elestey's theme of an interior quest for meaning is externalized as a vision of pr-

metaphor of our minds. Accordingly the

Editors Note: Since Jamake Highwater





For most people, farry tales are just make-believe. But not to those of us who live in your faritisses.

## MIXED MARRIAGES



married a jackase. The

may sound like a namask you'd expect from half the nation's seasoned brides. but in my case, if a a fact. Like many outlains, Liphtens had avanged manages don't think his occur outlains of done). Not that lipsk ween't

mamages (point trains into dozy ocupang was my doing), rect that above was a dainfarig based. If by put that my heart was bound for a young man of Banbury descent. Although of little substance, he was honest through and through. My ever elegant and innovative mother acrounced the manage decision would be based on local—what of wellow half each family.

had to offer Little Net, my younger brother, sid his bast to ornulate my prospective mate, doming the large east and long tail. Mother sat in for me



entrapided the officering would likely invention of wide of the high of the contraded the officering would likely invention of wide of the high of the second and a second of the officering the properties of the processor and a second or officer of the processor and the processor an







Bissaful days followed, as

did the marketish teri il did net il Posti did yay totleved, or ori sharin soli did net il posti teri sharin soli did harbiteti the didukery menglipiti e Gurusia ori me sharin soli did harbiteti the tradicalery menglipiti e Gurusia ori menglipiti sharin soli did harbiteti the tradicalery menglipiti sharin soli sharin soli sharin sharin

Dri



When he tried to prove quantum mechanics isn't as odd as it seems, this unlikely guru ended up (wisting reality another turn into the weird zone where particles light-years apart may communicate instantaneously

### INTERVIEW

ire than 25 years ago John Bell had a chance to pie—nonepsentate mostly—who look upon him as an intelleg-I still diff the great Daniels physical Niels Bold, one of tool sout for his work interpreting the meaning of quantum me the board for his work interpreting the meaning of quantum me. with him. I didn't have the nerve to say, I think your Copenhopes exercision is lower Beaster, the left ride wearst very guardien mechanics Bornin Bellint Northern ledard in 1925 have made my day! In which way, I don't know." Bell roars Bell has a cutous position in the parthern of particle physi-seemed to say that the critics of the substance world—elecciets. At CERN, the monstrous European physics liaboratory from photons and the like-cannot be proported. They exist outside Geneva where he works his optionaries consider him in a haze of landom possibilities until "adaptived" in particular 3 Showed Duzzle Solver. He's a letter with stooky but name; constructions as when a scanned notions a construction helps to advance the field by patiently unrawaing the threads perment on them. Does that mean that the properties of motion

Redressed and bearded Bell has always been treated by college and lound it strange indeed. Quartum mechanics. of lang concrete problems introduced more specialized minds are in effect created by human beings? That was motived in have forged racklessly ahead. But there is another set of piec- suggestion of Bole's Copenhagen interpretation. It was varily

PHOTOGRAPH BY PETER MENZEL

unknown factors. There's hidden vendeterminant (the old belef in cartainty) was said, things don't reelly exist until you look

Buil graduated from college in 1949 bein 1960 wound up at CEPN. Continuent to to reture it. To his surprise, his conclusions suppresed that quantum mechanics is (we britter papers the first published in 1965 he proved what is known as Bell's

deschors and the properties of one of them correlated or linked when it, too is measured-no matter how to apart the park reled the possibility first a "hidden vanable" could explain this connection. Some-

Be's theorem has accured near-relnous stylus among certain popular augrome particles to "think," the basic physical Richard Feyrman palled "the on Bell infranceron waters Michael Talbet recently in Boyand the Guernium constitute the Date Large and to address the stu-

aloss with his physical wife Mary whether he himself tell he had dampn sponded by warring us that he is an imparamet instable sort who tolerates no with us solting down the appearment, we a solt-apoken man who talked extremely

Omos From your student days, were you re con

Reft I was releveded in philosophy list But overson the panerator before. That was so for from philosophy, and there was an Owel. Hesn't each generation of phys-

dists overturned the previous one? Bell: No 1 think it's true there are scientific actioned We stil have Newton's equa-Maxwell's equators, although quantum

When I came to learn quantum mechan-

stors I loand. The wave function-one

€When we get down to things beyond our immediate experience, the concept of "out there"

and "really there" and so on begins to lose its relevance?

or some kind of bookkeeping operation Once What's a wore function electrons, there comes a point when you one that they are not behave according

they can show interference parterns. Not ing on a photographic plate build up an rariesence patern. So samphow you have the appoint on your place—and a wave which drects them in some way. The relation bethe rules, for translating the amplitude of particles is kind of mathematical "map" whether he wave as really there Draw So quartum mechanics explane . body is sure if any of it is see in any orde

there at all?

But the philosophy that has grown up with exempretation, calls that reality into quee something is out these Perhaps we are sntilled to on the gross scale I am entitled to entitled to assume that you are made of we get down to these flyings beyond our on begins to lose its relevants: Geer Why don't we have an adequate

Ball To call it a description of theory is already to imply the throop Ordinary quanence between "description" and "thing" It is only description. Einstein was always asking. What are the things described find curves identifying the probable age of

need the concepts of people and death. If you had only the out you'd ask. What is this puestion is missing in ordinary quanturn mechanics—until you come to the about experimental equipment in this way are not allowed to speak about. You canttak of them Organ These wayers are like interary char-

acters that cloriflerest apart from the words. at certain places. Here are these featous

ters cease to be fickhour Oran: What is the Copenhagen interprevery arriticuous form. Some people use ri

nde a broycle without reply knowing what have in using it. There are big throok like laboratory notruments, and there are little wower And there is such a difference in scale between the little ones and the bio presided a doesn't matter much where you draw the boundary. The rules of pragmatic hegen at least in part. Neck Bohr, the go nus of Copenhager, was one of the key

nany sense Well are these real objects out happen interpretation, which is a philosophy of the whole thing. It trues to be very which you worry about, are somehow inpart of nature. It's impossible for us to have designed to record to people to the mudheard distriguished people say that this philosophy' from Coperhapen, on which

Green As a student, you weren't ressoured Belt: When I lound the professors repeat ng what I saw written in the tectrooks. I Over Part of the problem is that there's a stuff happens, and you have an ordinary

we change the language, roughly speakyou can get along in practice without de oding it. But it's still a problem theoreta green world blue equations and green equitors it can't be not One: When you went to the unwently

Were physicals all damayed?

Bell. The present saturation is that we have

guartum mechanics, which said on the dom and the laws could only be state to a

Bell. The physicists dignit want to be both had been spilled before them, and every

to think that this greet mathematicion had shown it was so. Yet the Yon Neumann to a life not assifteeed its adv. If you look matician and he makes assumptions that physical disposition, they're riprisense. You

laurestel Louis de Brogle were certainly

the statistical aspect of guartum mechan-

Neumann gave a "rigorous" mathematical

Von Neumenn proof in theil is one that must

for a hatory student, its reception was out-

have been read at that time by more than

Daw. Dafnt Ension point out the deffring must be befund the statistical quanturn mechanics that would not be statisti-

duced their farrous argument, which was cause quantum correlations exist between distant objects, and in certain orcum was independent chance in what the ob-

Orani We don't get it. Suppose we take a seel each half in different envelopes. We envelope and it's heads. We know your is talls. What is no strange about that? Boll. There is no mystery because the head becaming But suppose you deb theleve



that the other one would coordinate its recluded in the quantum description. It tells stein objected to that He gaid to make graving and are sust revealed when we look

Agen, part of that psychohetonical study I would like to see is why it did not impress planation doesn't work. Birsteins explasame component of spin on the two sides. ispin a a measure of a property similar but

Ownii Didn't anybody react to Einstein Po-Bult in 1952 David Bohm gave a fully

ble Rohms paper weent reporcus it didn't in remain places (poeting out window) Otto: What you expected when you

started wading into this more than twenty Bell, it is the idea that what you do have conmiled by the velocity of light Locality is Omy Robins paper was writen when you were a record gracture. Yet despite your

for you didn't wate profition on it until

drapped out of your mang? Bell I was never completely out of my

Accelerator Center at the and of 1963 arodd experence to lind everybody crushed persithat subsequently became noticeous you make localty a condition can you then make a good proof of the impossibility of

ton I tred to magine what hidden vons count for the quantum complation. And I

The theorem says that maybe there must be something faster than light, although it pains me to say so It implies that Einstein's

space and time isn't tenable ?

ways wert wrong. And then I began to sus Bell Triats note. Then when I suspected the impossibility and I mode a rivese travsafean an imy mand, I stanted looking for the

year different things. down Whether I expected to come out with on Einsfernen interpretation of quantum rierpretation as I sought was not possible

before What I really wanted was a clear

plan conception of the world. From what I

Own: But don't you think logical debate in Belt You need both sorts of people in the what it is, and people who are concerned

activity is cooperative in the end Bull. The theorem lefts you had maybe there

speak touching it! But you would never heads or talls arryway And I wouldn't know

that are recompatible with any mechanism Bell. There was not great reaction at first. I thought. Well, that a no interesting pozzle And then in 1969 people proved a more

Ome: What importance does all of this

Bell It's a hard question even an emberis by no means worked out. All the devel Ome is these some big problem hidden

Bell Yes For me the big question is the

that light. We sound was a wave motion queckly fowerd you from a distant source

logites. So if you measure the velocity of against your motion and other times with poston Well people didn't They found the idea that moving bodies actually contract. Next Irish physical Joseph Larring slower. He said that when you think youre mess and the velocity of light, you've looked

to make you drack both in still moving with Then Einstein dame along and guestored the Torrapriety to make threes expression of some deep fruth the said merco in any laboratory. That idea has come to be called Lowertz avanance be-

so soldly built mp physical theory that it is reference system (such as ether) has cost of the baggest difficulties in formulating they seem to imply that something opes forder then light But Larretz investance in

more precisely than you can using light

Gree People have found in this cornec

Eastern mysticism comes already from fight and maybe before fight a cost of mystics have faced—the union of the obsold many copies, but I have no respon ability for thef I got nio the picture and

> €The Dalai I ama said that if physics was committed to a

once-only universe, then would have to study their scnotures There's room for maneuwer?

I think thefe true because my result ris-

ple people who lest that ordinary source tive conservation and soft solence and even leet quite warm toward those people. Gever But you don't see if that way Rel. No because ident have that method

reliaious and spiritual matters. When peoence cannot answer—that spence cannot

answer is Buddhism or Taoism or something else. I just have to say that when I look at those things I don't find the anewer are much more vicious than Buddham.

Belt I don't there as evil but I don't their complicated things. The kinds of problems

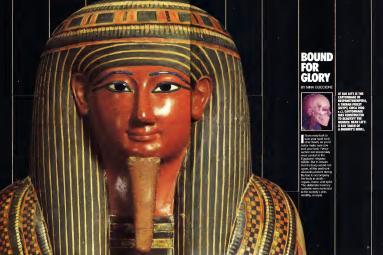
Ower Are people samply picking up the poetic resonances of these deas Belt Yes! Now poetry—that's the correct

and others. But as physics, I don't appreboson is theoretical new particle), and if we find it, there we are all como to learn ther philosophies [Laughs] Wift all go and

not come from genuine mystes but from arrigteur mysfics, people who find this ro marks possibility opening and are agree reading popular books. But my feeling is

fring much begoer than physics. They are Orres. Why is a this mystic physics books

Bell. People and Indiana for comfort, and if to believe it. These ideas really mean that prests and mistics saving the but now in the middle is very comforting, so if s deay





### SPACE

Emministration and effection by what is hopepromy impact, not only in internal of subport market but in learns of all larchs of new restands that cabe learns of all larchs of new restands that cabe learns of cabelongs and of Galloways I Brody Edwards schooling growing with the spaces program. Hat laterally the spaces are compared to the bears that see the first morehalty of the other bears that see the restand to the visual airs, not be schooled. Shift will program a least and on the schooled shift will program a least and support and is now proceded to a ring and experience of the proceder of a ring and

San Francisco
In 1985 Enhance happened to attend lecture goven by Younne Clisarvasine salt had begun her caser advanting former Ceferras governor Jeany Brown on their build institutional office buildings the wouldn't comode the human open at with the san ity. She later became a specialist of the psychological effocis confinement

wouldn't conode the human opinit with their sentity. She later became a specialist or the psychologoial effects confinement could have on humans related in such places are submannes of their ori rigal are render regions like Artarctica. In 1984 Cleannater princip or and their seat Space Human Factors Office at the NASAViness Possaven Confine Lookingto.

sections of the control of the contr

of scanninks tearing—such as miseuring peoples encourage yours matchers to dispose the control of the control

in a laboratory year Coarrector of NASA of the Each passenger's provide space is the sale of a large stephane booth. The intensive wells are dark on the bodtom and light is the lape. The each is all the sky. These is a console for playing tapes and videos a phone to speak to loved one on farth a builten board for photographs and a long minor so people can entembre what

Some of the isams findings about onboard and are levely level by promises statemed in Antanctica Chairwater and her en investigation advised sector subjects to choose among fluoriness of photographs in new calegoors, from arends to automobilities. The overativelening throate was landscapped withinwate without buildings, with foregound detail. They had a physiologically saffining either on the wave.

Generator and Environs would live to see an international and gallery. There are fairly boring laminist that go from one module to an expension of lengths to the raming of the bear in Pampiona. Spain calorial stage booming in Holland, and San Francesto a Debate Sare Bridge. Because there is no gravity in space.

space abort processor will raw to deep vertically Edwards and Clearance holes designed a planty differy steeping bog with an open has obstacled and a stellow the processor of the processor of the Coerwape. To have then the option we sand propietions excepting that a territor of them, the root reopprociately we have not for mobilishing through country and processor of the processor of the colors will be the processor.

not for replicating those surroundings but for giving them linia. Arthodis, communications with home choices—all those Earth says enhance people's humanness, sides then depriving them of it in this machinedominated outling.

When the hardware for the space station

♦in the past there's been this he-man, we-can-live in anything attitude. Women tend

to care more about quality-of-life issues that could come up in space, like relevation and art 9

like relaxation and art 5

and the state of t

Base-Pockham agrees with Clearwater for hypeon same attracts can be a pits in designing a habitat ill hithe past thereis been a lot of the he-man, we-car-live-ensytting attracts at it is perfectly as a low without a shower for two months' size notes. Women land to other more about the mailly collifer issues that crust or more securities.

site risio. "Women tend to one news according to guidy conference and the guidy colded issues that could come up in popul) the relationship, continuation of providing the relationship, and art. Beer-Procham's hydrend. David, also works on Bosengia space station project, although in a different unit. Sometimes if a service of women at each other across all ports if se says. It exists were not in the more difficult phaces.

for women to succeed is within the large private-sector servespace companies. Clearwater who tesdeed in private industry before coming to NASA remembers being orthogod by a superior for 'enginging my waste too much.' There's a glass centry in there for women. You can stand under it and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through it list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and look up through a list by guyes at the and list by guyes and list by guyes at the and list by guyes at a list by guyes at the and list by guyes at a list by guyes at the and list by guyes at a list by guyes a li

there for women "but can stand under all the form of t

secretar in the role of equate."

Divisis Novolab based company. Their Millermam. Inc., weres to have its Spece Van ready for service in 1993. Lighter and less than half the length-offer conventions shartlist for enterable shartlist will creatly cut.

to send payloads into spece.

But most of these visions, from a new, long range chillen space program to the establishment of bases on Mars and the mon, are still just a wish list Many women like their male colleagues, are wondering

program in these economically shaley, post-Chishenger larius.
It's inside-on-break time," says Branda.
Forms - The gap the Sovietis opened up is widening by the day. And while the Japposes are mently helpful the Francase.

If you look at the curse of algorithms prospending, the chroting precipiturally.
Although the recent go shead given to the long delayed upper mission is good news, planty of calebors have been just off college by American space profites—or healack of tham. And sharker women can transform the space industry or whether hear well instead if in the following relative

the only way they can get shead and stay shread as to adopt shreed-pacely male profites Like woman in law incidence and the business world they are facility that he administic of a make deministing workshold industry may not be compatible with he pull of motherhood Forman says site cannot see both hav-

ing a chief and confirming a caseer in the space including. "Think chief rising is one of the hardest jobs there is, and I couldn't brigging yeelf to make that secritics. I'm just grateful that I belong to the last generation of women who could really make the chose not to have chiefers."

"The good news," says Marcia/Smith "is bid we [Armodicon women] are doing a lot, batter filen anyone clair. When I will an Beginnor. England (for the 1867 conference of the Internsticenti Autonomical Techniques and the Sovers. I was book to Japanese and the Sovers. I was book to being the cells women to the norm I used to be much more confided the way Amerciant here were to be any American to the way and the source of the says and the says

# THE GIRLWHO LOVED ANIWALS

BY BRUCE MOALLISTER

If only you had the power to save an endangered species, how far would you go?

They had her on the seventeenth foor in the new his security unit on Figuretoa and weren't going to let mis up.

Captain Mendoza, the one who thinks I'm the uglest women heis ever laid.

to take it personally, was up there with her and for one else was allowed. Or so this young laudenard with a fresh apadomy statico on his self thirms the lot let me. I get up real close so the kid can hear me over the screaming mode crowd in the lobby and see this

infarmous face of mine, and I sall him I don't think Chief Stracher will like getting in oat at (2000 hours just because some desk cadot can't tell a profesed soc worker from a meda

bother each other at the time of the day anyway am I right? It is a sure but he looks womed, and omerance why I haven't had anything done about the face I was both with a sure about the face.

a lady in fall-gues who a simple as fall as PAINTING BY ARMODIO



Lam-and up we go They relettioent kids.

Mencicos wasn't with her Teo PD modics with side arms were. The cari was of ting ballistic Plexe, and the nest-and was a

Their fissed floor cost them thirty three milion dollars. I told magelf tack them three years of legislation to get, and had every or session or shad dontary alive--OCTV.

I knew that Mandoza would have pre-

inside her but he was going to have to set-I asked the medics to let me in They told

me to talk into their wall god so the new computer could hear me. The computer I asked from to leave, oting Wolfare & wouldn't, caling hased orders under Penal Code Seven-A I told them to go find Men-

Very ricely they said that neither of them he heid for obstruction despite the same

Her name was Lasy Tomor Sho was twenty one not fwenty According to Recnets wheld been born in the East Valley. payorts and as the old story gover honked up with a man who would oblige her the some way. What had long! County out of someone in WSI had set her up with on around it. Hough the older brusses said

She was bale and underwaght and But there was a fracility to her-prin-

She finched when I said help, just as if lid his her I wondered which had been worse....the beginn or the media 190d

C's by calling it in to the networks. down the road even if things didn't get worse for her-which they would. The press wasted him backy. She was bloody show

the rade arms. If they were going to listen The shorter one said yes a portable

I pouldn't for the life of me imagine what Im your new VR advocase Liesy

She nodded keeping her hands in he "I'm going to ask you some questions if that's all nort. The more I know the more

of should have gone to the hotel, but the anartment was closer I-didn't look at the bedroom dear which is looked

from the outside. Some days it's easier not to think about what's in there 9

She nedded again and smiled but the I identified myself, badge and depart-

ment and appelation, then read her her notes under Protective Services provi-

First guestion Leavy Whyld you do it? I saked it as gertly as I could, ficking the hand recorder on it was the law

Her I C was eighty four congenial and she was a Collins psychotype class three custodial service in Monterey Park. Her

rating that had gotten her a follow restraint.

a second degree dependency of him and

cerned she was protected, and society

two armed medics beside her the media her it was the one targ that could make

her smea Steriold my about a lotten sterid once

brother? I couldn't will and it didn't met-

When she started living with the man

have them anymore with the two or three

I was surpresed there were any aramats

Did you talk to this men? She said. "I wasn't scared of him. He amiled a lot. She lauched at something, and we

was a whopping nine point six. It was the

New thousand dollars. Thef's how much when it is born, and was it

they clid it gently while she watched, the

a face so trusting That's what the doctors say: I said. locking up at the side arms pulting it on Nine thousand More than a man like two

I'm thinking of the mess we've made of

No what little gails like Lissy Tomer must

make a chichood and leave you firrking.

thely-ax grand. Held spent some of his dozen names on high VR searches such things worked or didn't perboularly

no substance abuse no wallackers, no

in a nation of two bundred excitive military Legy Tomer was one of ten-but in her had taked to her in a park once. Because

I called Artiglou of three new look her mad note-out of that room away from the plete letal check. Artislou is the kind of boss needed with the press screaming downhome for a couple hours of sleep before

right but the spartment was closer I slept

careal blooding but the felal signs were tion. I went about and asked whether the



in black Cadviacs
within large, dwy, colored seduc-

# AUTI MATTER

Control of the Contro

UFO UPDATE

MANUPLANTA IN VISITABLE AND CONTINUE TO THE ADMINISTRATION OF THE

Popular Individual asserting the sport from the united School in New York Institution is secrete scores and the species who belt from in 1 - sery while researching a declaration of the UPO of deal University of Pennsylvania — His studies revealed by beatter (contributions) in natural.

on the MB are not a control of the area of

the sedans of th

the most important last of the pertury he should and your high resolution?

Fall engages within the UFC community accepts the resistance of min lasts, we had everything it know in the last hinty years to get them introduced in new whole a community and accept the perturbation of evidence that is also also also also accept to purpose the last hinty was to get the personal engages. Beache Victoria with the last of personal engages consistant the distances of commencing the MSR with the inst-

vidual's degree of inFO involvement. He advers: however not to hall if this poems to you. Keep a sonso of humonable yoursel. Don't get upout or take them too ser outly in or









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san induce auch expensitivel. It is child as served and has a rich since like featery ports out in expensionage and section of the child and section in the child and of the child as served and of the child and

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contact lessons till play after
Jan Chaddook of Master
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With can change the coard of your pipe them to the coard of your pipe them to the feet of the coard of your pipe them to the coard of t

Carlotte Pare

wishin a blush call floornoon holds his in order or Normanies outs turn the system more blue. Sharry Baker arries solicits me later a capte nember by obtaily imparating both the impages and both was a system —estions of Positines.

lolar got me Paul This Rithway Hotel Incided weekers Employed Semon good of the Employed Semon Semon several page of the Employed Semon Se

Notes you have been expected by the part of the past o

a himsele
Beer porks out that the
North Deven and Solinersol
countes of England where
the Beest of Eamour is said to recent the beest of Eamour is said to recent these trop been seed, colled with superstitions should present crustations the haven the moors. But he clears the Beest of Eamour is a feel and those onethrough the been seed to the thought of the been seed to the that over the plates buy own. Shakes ones another the outtrace may be a side oppolation of the Again kind of the common state of the Again of the case wound be very dark. Whenever they came for Board for Execute Whenever they came for Board for the Case whenever they came for the Case of the

has carry to the any form —Shorry Baker (am convinced that barrys from another planet home amplied out Tilen as a spice swher? Serge Godheh

TO THE PERSON

They the market has but on over a cidd. But that the British rays being a ready and seed to Wast that impose the original Drucola is strange. Weining such time described with the Chrown mappean. Stranger Mayaran has to expect of the new yushinas Strange Mayaran has to event or events of the good year. The bits pushes meal of right buttons. For promoting concepts in these is the year changes in these is the year changes.

1

dapar took seven including one for a L Minestry report probdeaths caused by ke and another for a sesaud he heard the voof Soci on a failed to

In early import probing fanactive coursed by victors and another for a seen who and he health the victor proching leptors must prime invisiting National Talleshall. But the winner of Chorvin yes intend to Bellewin ward as pure Amonoscan. If to publishes 6 lies in by invalidation to the health of the proposition of the pro-

sed a beby from the clead in particip with the first particip with the first participation (complete acceptance) of the clude MD 20000). Charles participation of the first on unusual phenomenor participation of the complete first on unusual phenomenor produces of the complete first on unusual phenomenor participation of the participation of the participation of the participation of partici

se that of prevaden logar to starge says Once except or the clade. But a started to the clade is a started of death royer to be a section of the clade to the clade is the clade to the

ony for her'

J. D. Seings
in which the yo-yo string is
resided as a siste of intro

Towns Reach

Fire bean trying for some time for devalop a Me chike that doesn't require my matterny

### BUIDDHA

Tahon milled out a packet of white powder and a drinking strew and told Buddha to toot a few lines, to put a shine on his chest and little sparkips canced in the arthen curied up beside him, his arm around

'Don't know what I'd do without you to talk I swear I don!" His soft breests

towed with Bugotha's bell buckle, and degrnings of arousel But he felt no love goming from Taboo, only a flux of lust and amenty I own was unmetakable—a warm pressure as steacy as a beam from a flashlight-and Tapon was too unformed

"New man," Buddss said pushing Taboo's hand away

sweet fucked-up sedness of a woman thetic, he forced himself to be stein. "Don't mass wit med

The buzzer sounded "Damn?" Taboo set up, sucked in his shirt.

He walked over to the table, picked up the I tile by more of the here bad boy. But don't on me" He went out into the living room, closure the door behind him

sense of something askew and toind himon It was enough to set him dearning, though not of Africa. These creams were

smeats of Isughter, and once somebody said. "The man oct (tail Dig st The man's a

full consciousness. He got to his feet, swaved, stappered forward and frrew Taboo was naked and apresid-eagled tapappion over some pilow. his rump in the air and Johnsy Words I ... a young leaffer-

holding his arms. Another man, darker and hower than Wardel was kneeling between Taboo's legs and was just zipping

Framed by the word green grees and blue his head against it, avoiding the linguis that

perpetrated in some unspoiled corner of the Garden of Eden, and Buddha was transfered by it. What he saw was vio. but he saw too that it was an accurate statebeauty and he felt distanced as if he were watching through a peophole whose for

sicing across his face. 'The ho aheady cane got herself a man. C mon. bio? We

Long-buried emotions were kindled in Buddhe's heart. Bage, love feer Their on-

gan seemed to deepen as if the Nathul regression archived on his skull were showing through the skin, as if he perrawari in Buddha an object of deare info

node Transport than Taboo tween Taboo's legs, and the man fluing timeelt at Buddhs, pulling a krife and the men's wrist, and the men's violence was transmitted through his flesh seeding funy in his heart. He squeezed the mens wristbones until they ground together, and the knife fell to the foor. Then he printed the

The man's eyes went unlocused, and he grow heavy in Buddha's grasp, he slumped down the back of his head leaving a disdha knew he was dead, but before he could

The pain was luminous. He imagined it. lighting him up inside with the precise arhim a slim leathery dust delivered lick of his vision. Then a scream-a sound like bren-and there was Taboo, something bright in his hand, something that feehed stumbled back, looking puzzled, touching lay passeng for breeth. The last lock had second his vision began to clear, and he

new Taboo standing above Wardel's body. With his sleek breasts and male garri-

tells and the bloody knife, he seemed a creature out of a myth. He kneeled beside Bucishs "You swight" he seked "Budchie? You awnoht?



more there are millions of other bovels with millions of other intelligent goldlish in them "

Buddha managed a nod Taboo's eyes reminded him of the eyes of the fielt in his dreast—asswarm with terrice—and has may be well heleny weeth in this air intengliar than Buddha had ever seen it.

T never warted to full robody, said Tabob Internatively. There he less hing to wanted to do. He glanded at the fire compete and he les quivered. Buildha looked at them, too. Sprawled in oodly glaceful attaucies on

the green grass arnd a calagraphy of blood linky apparent to be speling out some kind of crypto message. Bucathe thought if he kept stang at them ther missing wastd carrie clear. On Godf said Taboo "They got be come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon put me in just if the come for me they gon the me in just if the come is the come of the come the come of the come of the come the

Oh God! said Taboo "They gon be come for me shay gon put mo in gall it can the in jay Wret am I gor da?" And to his astronament looking back and fath between the copes and Tabools magical auta Buddhi found he could answer that question.

The answer was he realized also the solution to the problem of his file, it was make of redemption one he could have assed at by no other process than that his fifteen-year retead its conception had demanded an emp

worth in which to Existed and has demanded as well as apprehension of may a manded as well as apprehension of may a his clean of Africa. And having apprehended the full measure of the procedution than of Illinois to the controlled the workpease of the software apprehension of the workpease of the software appearance of the software of the software appearance of the controlled the software of the softwar

ly I can do that You am tigot no choice You cracy! Taboo repeated be

"Cmon backheer"
New man' ligotta get way i gotta
Taboa backed into the door fell for sh
know man' dopen He mouth opened as
he were gong to say screening else to,
missed to sund and obtact down to when
The pean in Buckhast back was throb
Dring signakding in seck weatheres a

through his fesh and he passed out for a low seconds.

When he regarded consciousness he sew Taboo standing in the docreary locking misselantial due to the heavy wash of magic around him in fact, the whole room had an undermater loudity, when the fine



### AT JACK DANIEL'S DISTILLERY we make our whiskey with iron-free water from a

Tenneessee cave spring.

Our spring doesn't look very big, but it supplies us with all the good water we need. And since every drop flows from an underground cave, what we use is never exposed to ourside impurities. Iron-free water (and oldrime methods) account in Jange part for our whiskey's tareness. A sip, we believe, and you'll see why were so proud of our spring.

SMOOTH SIPPIN' TENNESSEE WHISKE

Terrement Wildery + 13 CES should by solver plant if yearly + Sunder and Author by last Based Salilery Lein Wellies Proposity Study | Josephing Chip (R) Terremo (155) rematerial 'Soo'? seed Puridha Whorn you gon go, man? You berely able to make boos voice too, had the qualities of some-

fart ecto Shoot Buddha reached out to Taboo

Rustribus feit sex if his means serie forever into Show me that new dress you brought." he said. Taboo went to the closet, pulled

silk low-cur with a scattering of securis Aw mon" sad Buddha "Yeah thers your dress. You be knocken the boys' eyes twenthi for Detroit Youd need to go

till Mami meytre Thetid surt vs. Get you a big white car drive down by them lancy house, and is all them farroy people have beg to get next to you man As Buddha taked, conjuning the femi-

nce, and after Budghs hed finished. Tables ches across his tap. Tim scared the said

You always been sound said Budman dead out there. Time for that to stop You know you got the power Se go on!

"You arrit got no choose" Buddhe pulled taboo's head down gently and lessed him rig breeft "Doit he said Doilnow."

Renght Taboo took a few steps foward

the hottenom, then stopped "Budches, I Tation inversed his head, walkerd signify

Buddha heard the tub filling heard the solvetano es Tabos cirritad into é Then heard him begin to muster his charms. He needed to sleep to fix but he kept awake as long as he could trying to help Taboo vibrations of the metric working through the bettecom door Finally he gave in to the tollowed him into the blackness of sleep.

waywood, like a dealin feding in from the glowing like the core of his being. He woke sometime later to hear Taboo calling his ner of the room-a shadow outlined by

> Edon't feel right. Buddha "Tuboo's voice had acquired a husky tribre. Taboo came a step closer, and though

Ruddha was all unable to see hm. he

"It worked clicht it? Buddha wkori "It Put I tesi so pequita

You sust ain't used to it is all Taboo moved still closer, and Buddha

made out a neked young women standing breasts and a pubic friancle that showed

♠Black drapes hid the windows, a black satin mult covered the hed. Buddha sat spaking his

. wart in a crystal bowl filled with herb-steeped

water, while Taboo sat beside him, muttering charms

The air enound Taboo was still and dark all been used

Titold valued Buddha "You beautiful 1 and ... I set ordinary ' But Taboo 'Ordinary as angels," Buddhe sard Taboo amiled it was fatering at first, that

smile, but it grow wider when Burtchin rewoman greductly becoming confident of her feminine powers. She lay down beside

> I can was a steady flow from her as tengible as a perfume, and Buddhe let if specing into him coloring his calm amptinees. On meanst he started to resect the more duty to fulfill the most taxing and compromising duty of all. He reached down and trumbed the place between Tables is

legs. Taboo stiflened and pushed her repair against his fingst Buddhe fred to turn onto his side but

her hips, wedging himself deep, he plunged and crunted, ignoring the pein in

He dug his fingers into the plamp feeth of that planed away to a wirespox, like the sound a spirit makes falling through efermusician who by his dominance and skill has brought forth a perfect fone from

lay motionless. "Don't know if I clin I'm

ing at his buckle, his zipper "You won't have to do nother. Buddha, You sust for it hap-

But Buddha knew he couldn't just let a

happen knew he had to sourn Taboo's love

her desirability As she mounted him. a

stradow agman lifting and writing account

wantifers. In princed his riesel select foo says to her darkened face remembered

ter ways the secrets. All the love and lust

he had lought so long to dany came bolne up from nowhere, anniviating his calm

chaos But afterward as she snuggled ther the errors product of his years of as-

Come with me. Buscha.' she said "Come with me to Marry. We can get us a house on the beach and 'Lemme be' he said, his despay increasing because he wanted to go with her,

to live high in Marri and share her solldecovery her eletion. Only the pain in his back-intersifying with every passing mrute-dissuaded fam and it took all his willbower to convince her of his resolve, to

and his dead wite had fused into a single entity in his mind, and the thought of losing her again was a pain equal to the one inficted by Johnny Wardel At last, suitcase inhand, she shoot in the

docreasy the temptation of the world in a white sik chess, and said. Buddha picese "Deem of" he said "You got what you want. Now get on out a here! Don't be so harsh wit me Buddha You

sess Bursting, she sest. Make me feel Illicome sees valafter a white "she said

In the bathoup Buckfre ... I just couldn't

She half-turned iglanced back "Ill always love you Buddhe.' The door swurrs ship behind her but the radiance of her



tove kept bearing through the wood, strong and contaminating "Go get youself a big whee car," he remained.

murmurid
He waited until he heard the front door close. Then shappilled on from the bid charping he and one his lived to muffe the pain. He sweeped on the vettor of period. The pain He sweeped on the vettor of period. But deter a moment he foll basicilier region. But deter a moment he foll basicilier accustomed emotion. However, the sight of his prifit, inmane faspered type sight of his prifit, inmane faspered type of the prifit of

Closed his reyes for a minute — at least he thought I wais put a minute. But he couldn't shake the notion that he'd been asleep for a long, long time.

Buckha had to stop and rest half a closen times on the way back to the shooting gallery, overcome by pain by emoleons recelly by emoleons. They were all around

hand a vide bonded. The favored for the same financial wave. The shadowed certification wave. The shadowed certification is supported by the shadowed by the s

When he resched the shooting galary has a capa-legated in he matrices, heavy with despair. His back advel screening fearce Pete was engry with him for being fearce. Pete was engry with him for being fear but on several his but on several his late of the peter has a several has been a several peter and brought down a needle and helped hims. What his permit down he select, and Buddha said it wasn't nother.

Dor't germe that shif " said Pate " fou get hit by a goddamn car and you be telen" see it ain't bout nother." He shook his head rudully. Well, to hell wit yai i'm sick of

notify. Well, to hall will yail im sack of worryiff bouryal?
Budoha began to held downly and excurationed in a first matterial, and heldhought if he could not immedified fine love that Taboo hed impacted to hank things may be safe than below. Cleare, empater But the couldn't first his not to manage in Than the saw the opportunity that the old management of the managemen

Tibre you, men," sed buddin, and sent the love in a boased beam of such strength. That he sheered as it went out of him has the segment of him perplayed. If an expression changed to one of placeture, then to annoyance. "You live me?" Hum? Man you been hanged out with that flagged.

too much that's what you bean don't? He clumped a couple of steps higher and stopped "Don't bother comin' upstant for your goodinghar? he sed in gurifer tonss if I send it down wif somebody.

The sand it down will somebody.

The cast in - said Buddha

Halvashina Peter round the corner of the
standed then be young on the mothes in
He was so the of deepe and flumin corner
corner that the closed his eyes,
to golden princips bloomed behind his lists,
to opened into Alexa and he was lightly
arress the meetalerisk steam than user.

golden pipor idea bloomed behind ha files, opened in the Alberta and he was lightly across the grassilated lasses than evert. Hying on the wings of the pean that best life or in an easy but stated at hin white as lock heart in the best life of in the sealy but stated at hin with well said to be supported the seal of the seal of

g. It full young woman who had driven a without of the care puth to Marm and risk you will be read to the care puth to Marm and risk you will be read to the care puth to the care puth to the care of the care of

workinate his scarce of wildown the groot mountains, tow enough to hear the please full chairs at the greates booming through the hold widely, and soon was speeding stool the tales whereit the sociary that when all on all consciously profits into any and a consciously profit amountain and the mission of file seek before a speeding when a social profit in the seek of the seek

pounding that he recognized to be some one knocking on the door of the shocking gallery, unmoning their this duly. For air er state the had an urgate sumback, to reinhabit. the world of the senses of thisely sould a bookers and what with a lods with pushs who came around looking to trade or might's muscle work for a for. And the

couled hookers and well with bold with prelia who came a outed boring to trade prelia who came a outed boring to trade or preferred bod when his heart of heir answer he goods mit coof? But before he could be come to be the country of the country of the preliable he preliable he be compared to the preliable he before the country of the before the before the country of the before the country of the with a before the country of who country of who country of who country of the with the country of the with the country of the with the wit

the final country of the mind DO

NUCLEAR

needed to supply electricity in your area, would us there a nuclear power plant oppose a nuclear power plant, or neserve judgmont until you had more internation? 30 percent of Gallach intervalves or power construction, and 50 percent seet here you'd reserve, judgment. That yhere present of the subjects polled by Camhate Records conseet construction and

The American Sucials Society July Online Institute to speak of the importance of petroption. "Perceived at the lay work control to the petroption and the petroption in the pe

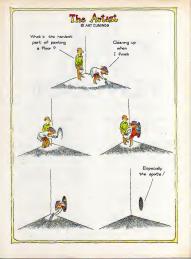
If s raining. Bed weather seems to lollow

I me archaf ween 1 was nuclear power plants. In morth of Pordand Georges some plants in morth of Pordand Georges some plants in morth of Pordand Georges and plants in morth of Pordand Georges and power of Pordand Georges and P

That puts us comentere into the early perfort of the national of the SEE speaking passen says. That's a neat problem: he adds "When you look that for no the trushe its hard to say if he use of fasion to producing shortly is even going to be a self-oncount." Senting thought. The tarse of incuses power could be advanced light water seatches in problem fielding an object of the seatches in mercal in gargeritain pools of booksed water or insign fast reactions conditionally as the counter of the seatches in the seatch of the seatch o

Diven the recent newspaper reports station that respectively have auconocially

staining has researchers there aucreed with a year price of muchair basen execution in this Nawala deast the obsain of nuclear bases and become seal by the nest centary. Or obst-power satellites of graditermals public of wind garandon tames of Armoly business occasion of ultraditional contraction for hochreques and elegranity prescribed energy corresponds no



### INTERVIEW

at or a sudiet to resist that we are really not my own impression Over it doesn't all fit tooether

Relt I cuess noti Rut it doesn't hurt me a frem at M in one I have actually dis-

cause if was clear ing. They were not or anything like that tradano and psotor

to Western acence chology, because Personal spiritual munication as I say

We sat as a long table on one side were ten Buddhists

> rituroreter Cocceste eral, the chief of the theory division, other they thought Ball's theorem might have something to do with Budchism. The Dalar he said believe in metempsychosis on a

> votes—things repeat endlessly. The conception in physics at the moment. I told him. physicists could change their line easily II asked the Data: Lams whether Budchists

also could change than line. He said that if it became clear that physics was permawould have to study their scriptures very carefully, there is usually room for maneu-

Owns. That must have been one of the od-

University is here in Switzerland in a little

place called See attent, overlooking Lake to this meeting on religion, physics, quan-

When you spend 2,922 days mellowing in an oak barrel, you're very, very sociable once you get out.



8 years old, 101 proof, pure Kentuck

white robos - who saxt nothing and smiled change of views (Leaghe) But they are vegetarians and I'm a vegetarian so I liked cracks. Big smile I remember somebody

know nothing about money. Anyway how-

Bell: My stitude is all very cold-blooded. I said you can make analogies between

Bell: Mostly it's just good fun for me. So entists should by to communicate with nonscientists it is a proper activity. What my frink it's not absolutely leasher that it's not

contribution in a field ing and effort, and other people are really so much than

Sometimes I'm suc.

where in the world When people poms happening in my bit about their world

ness of quantum mechanics is a hard problem to do something musor with-that the problem of free will Nobody has the idea it's unimportant or trivial. But would you advise a person to make his career

Omer. Do you think there are still big probiems open in physics today? Bell Yes And the perboular question of we have not found a way of digesting this stustion. We have the formulas of query well but I have not digested them. There certainly remains aomethics to be said

### TINY DANCERS

### 

I this age of the Wolfgang.

Amedical Mosel profitioned in both the harpsocked and the wide will be the many selected and the wide will be for a more selected for the selected Europeang missed. At the ago of solven for blowing our unprocess of the selected European the proposition of the Western, he published but within poretain and two opportunes West Mosalita profitional missed training to all the process will select and the opportunes West Mosalita is profit and missed training the or the property was a well-shown well-mail and composition and the property will be a selected to the property with the property will be a selected to the p

been able to prove it. But recent ovidence suggests that a child's early environment may determine—perhaps even prenerally—the extent to which musical potential is resized. Pater F Ostreadi a professor of

psychiatry at San Poncessor Landery Petrel Psychiatry Institute believes the trave machinism for mission dovecorner may be activated when the tastay or the words. That environment has says a classify mission. The inside of the body.—The central removal systems, to ensemble the highlimic The ambigo loads the actival occurs and the mission data the actival sounds and mythms of the mother the pounding of terr hast.

too regrond in secret and dynamic Studies and whose the winted Bharaci Goths on either can delargate before the market and delargate before the market and delargate before the market and the secret and

Pochepisth (Jaemas School of Mains and charmen of the duster program on mused development and opprison has been providing februse with museful synutin Recorded muses with a single mused in the spleyed for the februs through high-fieldity desers early forms plated directly on the mother a abdomation to complete the control of the control too complete on the importance of the complete on the importance of

sheety on fremother a ebdomon. We and a use or cheets in much thick not loss complex on that repeated patterns with a stackledy locations. See the stackledy deposit spin Seeter. What we think the betry may use as a bases for that are larger in March Remothers and molodic pattern. March Remothers in this about, Stadier porns out insport thy think on movement of that loss all whos in response to the public.

For several dozen Plochester children, 30 of whom were subjects of his experiments while they were still in the worth a martifity value of the still a martifity value of the several matter. The hoper-herseld Shedius (insum accord from as Easthaff's guardes) was the last to experiment with ground music as opposed to electronic clides and home and in the milk out to 1 thick with and home and in the milk out to 1 thick with and them and in the milk of the several martiness and in the milk of the several milk of the several several several milk of the several

tacks musical development from fetal stages to early childhood Shatter evaluates the musical response

call of newborns by bosing at elements year
and beylar manements. Lake he measures
supply the chiefs shally to immate the three or
voot sounds and to managedate such
sounds and to managedate such
sounds make the managedate such
sounds make the chiefs as sample to the
mass bed of my wylophones, drawns
and managed tage—and welcotanced for later
and managed tage—and welcotanced for later

analysis. Some of the children, he says can imitiate a law or at hear-mail middly, within eight morths of both or by the age of two 90 person of the children eligibly the Bibs patho or synthesizer with one linger at a time, as opposed to barriage serveral sundern Ways.

opposed to bagging several random lay, et once The children he says, pold out, alliant melodica and try them at differe pieces on the pensy much the way composer class. "It's not unusual for the to sing them, he says." And the more acceptance children will replaced when co-

to sing them; he says. What the more exceptional distatem will replicable them or another instrument.

One of the most striking observations. Shelter has made as made to do with appears them with master. We seen the development of highly originated and

experimental group his rays.
There is much speculation towered and left herd data to provide a connection between music and language. Neurologists recognize that special language has a musual component. But what the insuralige machanisms are that connect.

is a massai companion. But what is surplugge mechanisms are that come em is unknown. If their Shatler's studies are fascinat his certainly warrant latger longitudins

society steps Press Wilson on allumination and detailated consideration of neutral operations of the University of California et al. (1998). A subject the applications of the supplications of the consideration and development of self-presspore of the development of the presspore of the consideration and development of self-presspore of the consideration of the

# **ANIMALS**

field him what I thought of him, and he taughed "You've got it all wrong Doctor" no Ph D. no M D. He probably even knows Loot the degree under duress, wars late. paper we could get if the department was

The people I represent are carrie peo They're not what you're accustomed to

pletely legal. Lassure you But I really don't

law degree from one of the local universe-

You may be able to pull that with the money and \$150 a year work with on the street Costor but I know the low 11 make

I know there was more, so I writted visits up to the eighth month, then daily by them They want ultrasound CVS and

Save the county some money His voice charged as 1d known (two)(d

"I County can't oblige" he said we'll Link! him to take a flying sometring

of Iwahood—his and hers—and proto-

You've kept that face for a reason. Doc-With Artalous help I got her into the other women had seen her on the news matter. I thought it was about as good a

Iget a call the next monning from the una

I'm theking of the ones five loss Lissy The tenth-carneration macrost casings on

Or the ones when I was a kid. Faxt L.A. Foreign, the drugs taking them like some chubby ones the phes who liked to readthe man who look Kanenna and wasn't own and blamed it on coyoles, which

werent these arrange track) been for 903/5 I'm thinking of the ones I've lost Uses Hocked for her all day, glad to be out of

the apartment oldd to be away from a When I went back to the apertment that

right to pick up another change of clothes. Tissy Traci wondering how sheld got-

She had her hand on her bally holding

comforting thing in the world stare I didn't push fem I didn't

tripped easily I would therefore clearly I hadn't had more

nights running and all I could think of was cetting us both riside away from the steps.

Maybe it was labour. Or maybe something else I should have gotten her to a



ask about the lock. She sat held her helly I took two Dalmanes from the medicine rabinet thinking they most be exqual to out of my head

Lidon's know whether they did or not Listin was beside me her shoulder pressing

I said. Who is growing? Who is crowing? and we lausted asset. I asked her if she was fungry and if she could eat sand-

a tresh one from the letchen. She took the futor, lying on her side to keep the weight off I took the sola because of my long leas

Helt something basicin me in the clark heard her nichtsown whisper back into the couldn't anymore. It didn't last long. Dall

The rest day I took her to the designated clinic and waited cutside for her. She was happy. The big amnic needle they She lived how much bigger her breasts ween she said. Ike a mother's should be She didn't mind being careful about what she ate and drank. She even liked the

used to sag along with me on the median train overy Saturday when I went in for faces changed or played or mothered. We taked a lot back then, and I miss it. She if she was picky Sheld gotten her father's genes. But she talked like me-like a kid from East L. A - lough, with a smile, and I thought she was going to end up a D.A. or a strong defense type of at least an exec the local cacy not a twentieth of that, they

Fix six was railated, and I hear her lethics stumbling all the front door I get up cheadand it. What I am help me that the druces are nothing nothing at all Shap purposes with a strange group of leds, a lot of them older. This new through a feet, I tell misself getting the nasal ramification modified the mendibuler thrust allended to - when you

### WHOLE-BRAIN Take advantage of the John latest discovenes in neuroscience.

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could do it easily anytime, and cheaply, just because you want to make a point and it's han to goose the ones who need gooding. That's all sind's really doing you tell yourself.

this bot you still don't recognize her Shellheatry account for check and shoulders, which miskes her breasts seems all to smaller Her face is hearry her year are pully almost closed. She wakes with a limp bacause screening harts object low her shoulders anabard and they vegot fathces row the new melstic kind, officery and partful. She's wisering indepress persets but

So you have a daughor now whose not adaughter or share both boy and get Teo operation cost four grand and you certificate how the control of the grand and you certificate the operation of the grand and you certificate or control of the foundation of the control of th

She ware money to the operation she says standing in front of you "fou owe into fee, she says."

You try to find the ten-year-old in frose eyes and you can't Did you sver?

The dail came through at six and tknow if was County by And packet—ward status medical action of of 4—bod been out through The in the county of the bod been out through the county of the county of the bod been out through the county of the coun

and the substitution of th

rengious groups that were starting to actuall bloody murder. If would be an aborton no one would ever complain about. The husband was down at County hold-

not may were nowing any chances of an two intensists comprisces to kill the women had reached the D.A. and it were they said taking it senously if we and intent to have it.

Merdoca and he liked sassy women as much as the next gay but he wanted has back in custody, and the new D.A. was streaming jurisdiction, too. Everyone world a proced the ten o'clock new betoo the auments but riseart and selet on Society wasn't ready for it. The atbestic

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both a boy and a grill for the thrill of it you chest fermonhage could be a well-policy but a mother like the Screenhale in 1

s I should have said someone but died to be to be a control the suggest watering the elegant of the began to the bed to be a control the suggest watering the elegant of the began to the bed to be a control the suggest the began to the bed to be a control the suggest the bed to be a control to be a con

to the same thing from her.
We wall ched the lars, the box the white
did beers. We walched the long leggad wolf.
The histo sales the these. We watched the
did lapos stop and repeat along and repeat.

poster cage of as Three the hologram walked back and three the hologram walked back and to the hologram walked hologram is sed sagnationed and furnised back as so convicing. Alive its name had book half Antholy. She plaque sed it had walked to be hundred kilos it had lived to be ten it

They all died the same way she so to me. "That's what counts Jo. Input

pour both and the second secon

who was writing.
I stopped for I salked her if also kne what The Arks were and she said no stated to left his about the immension colors where for tworkly sears his best as the philes of them; left thousand species all lead her her housand species all lead her help white two handred tho sand others disappeased—the boost if new diseases. The lead use policies of new world saking team are by cree—the Arks haddly souther thresh world.

raw deneases the land use pockets or new work plaining him new by cres-in. The Aris hadri worked however by cres-in the insockets plaining the most plaining that carmed useds her in credit flowing also carmed the best Stie weem lisearing. See obtain need had also the seed of the land in some See obtain need had also seed to be seen and the seed of the land in seed of the land in seed of the seed of the land in seed of the

told me what she was going to buy he maney. She asked me whether



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\_\_\_\_\_ 126 OWN

thought the baby would end up at this zoo I couldn't stand it I sat her down on a

and said shed known it would happen it

We dight hoave until dark Are you out of your mind Jo?" Antalou

sad Tis not parmanent I seed "Di course it is not purmanent. Every a soo worker a house-a PD gate house meets but not a soc worker's because

that suc workers are spinoless insh?" anybody Jo what she was furking I needed down-

It took me the right and the morning

The Courty bit but with steplations

dragging on through the courts cameras

by the group that was funding her-but

At the beginning of the second stage of labor the intent abruptly rotates from on

The little head harless face broad nove

She said she wanted me to be there and

Locutdn't move She said it again

The doctor was walleng the beby sick couldn't see it from where she was it

strips, but I did. I remember not wanting to it was tough the cutting made a rose, and

A woman could have carried a Gorde years ago. The placents would have known mood. The gestation was the same rane. months. The only thing stopping arwone it had taken three decades, a well-enstowed insurrection group, a slick body

She was to money for the operation, my

perhaps her friends-the ones sho s holped out so often when she had the mapey and they clidn t-coviri help her I look of where she hurts, but she knows no

practice and I don't fight back. She pers my cheek and the corner of my eye. I rion I remember the ten year old ever

hart back. If she knew, if she only knew what fid carry for her morning, the next day or two-string at a walliack somewhere in the apertment, her

dasa wree sitting in her lap her heavy shoulders hunched as if she were prayers But she I have gotten even with me, end thet's what courts and no matter how much I plead with her promise her any-

us (poether—for help on the wall. When you're a well-acker you what anyone looks like. The unwerse is in make you gry. You see young men and

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without your even needing to touch them

to a long time that this one is all out one live got lokeep playing. So I walk into the backsom, and others here in this chair, like always. She got clothes on for a change and design sinds, and I find myself thrilling how nost site looks—chip even I don't feel a flang. As I tagle a step toward the letchen and

and I find myself divising now hoat size looks—due even I don't hole a thing. As I take a step toward the intrins and the breaker hose I sale what she's done hase the wires doubling back to the welljack, and I remember having about the form somecre life spitting common a fad. There are two wells to be I You can ing. I so that anyone who bouches you gots

rapped with a tribile wall dose in a bypass. Or so that anyone who kills the electricity even buches the waree kills you. Both are temperated. The ME has twenty backes to prove it and the gaps stuck with the job downfavor don't see a breakthrough for mort file.

She starving to death in the chair cells drying out unless someone | Visiting output on the months | visiting output

ancy situa martini i remamber. I got out I go to a cheap hotel downlown I cheam about blackous in lag cities and bodies that move but aren't alive and about disaptions. The next morting light a guosse drip into her arm, and I don't need one help with the 16466.

ry help with the needle. That's what's bahind the door, Lissy

We gave them their priss conference. The declars gave her a mild shot of pitrigisting to perk her up since she wouldn't be muserig, and she did it. held the body in her game like a pro-smiled though she was pale as a cheef, and the conference butter have short from the conference.

sent way happy and two of Mendousle gris roughed up to three that tred to hole out on the floot that right. Mendous says helds, they said, grinning. The floor returned to normal. I went in The recther was askep The body was in the moutator? There runses were watch-

ing over them.

The body broker came with his team two days later and looked happy. Six of his ten babies had made if.

Her name is Mary McLoughtin. I chose

Her hair is don't and the weats it short.
 She lives in Chulu Vala, just south of Sin
 Diego, and it get down there as often as:
 ani, and we go out
 She doesn't remember a filing so I was
 the new with hair to surprove it. We go to

the zoo, the San Diego Zoo, one of the biggest once Weight to the permission Weight in front of the new central and she toke me how the need thing as or much better than the holograms, which she thries she is been heater by the train and

before but and sure. The basty is a year old now. They verferred her Clab and they teep her behind glass—two or three version glassos make with her die all times—sale inomitie are and diseases. But we get to stand thirst, washing her like the rest up documented the looks at us and clowns. No one moograpes the diser-hained, get

I'm with The other one the pre-wholchare good respon to be hard disappeared long ago, the model says Sometimes the spotlings is just too great they sked. To can satmed small fact, Jo. She says, sessentiating a direction, a vegue thing, is

"I can simple small her. Jo. she says, essentianing a direction in vegale thing, a letter skept with "She's not full-grown you know." I sell her, yes, I know. "Sho's sure furny looking, sont she"."

I nod Hey I think she knows me? She says it with a lauch, doesn't know what she's said

"Look at two what looking at mo?"
The constate is boding of the — "All boding in many at all of us and with eyes that aren't other. Looking at us not thought us.

"Can we come back formative. 20" sites a size when the cread gits too heavy to see the common of the comm

(No filed for guisted-arrivals under Statute Teachy seem in del Wild processors and 44 goals though Less will be moving back to L.A. with me / m behans so I what Tiget locked for explasations, and firm in the right fail; I think I cold move moving, but will go down to the goo every wellkand. File good to get away Mendoca Prais asked me counting of way Mendoca Prais asked in the color of the processor of the praise Dutil gail there for the wild build build whether and I have no does whill moving the processor of the praise of the praise method and the processor of the praise processor of the processor of the processor p

to sell her DO

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ores Copyright Paths Laytton (Arthur to the Copyright Paths Laytton (Arthur to the Copyright Paths Charles Street Street



if a nam horse. Dear Afred hope you are having a race voyage. Pity your ship had to feline so soon you missed the parade and fineworks.

### **BODY**

In 1987 Fisher and his team becom-University plastic surgeon, to develop medical uses for virtue enveronments. They are currently refining their first project is computerzest, three dimensional human head with full skedeau details, for use in head are now being stored on a database. leady designing another version of the head to engisle plastic surgeons to create

computer models of coordinates for surgical reconstruction. If a suspeon needs to body to replace a damagest or deformed area on the face for instance he may iden thy eight gossible sites for harvesting the materal he needs. Using the vertaal enviwhich works best-a method he could never use on a real patient Because the VIEWS project is less than a year old. Fisher says he can't product

environments. "It will probably be within the Telesurgery, on the other hand, is ex-

packed to take considerably inoner to you maybe fifty years, but not twenty years? says Dr. William DeClampil is surgion at Stanford University Medical Center who is ring Study Committee as well as a mem-

DisCarroli beleves that one medical use patients with neurological damage from within environment autom with its riec-YOUR Systems. It would work like this A. physical therapist would be statemed at the controls. A patient would put his hands in leased or contracted the muscles in his hand the petient would "feel" those son-

sations. Fisher has talked with rehyblidamovements a handcapped person can and cannot make within a particular settrig-ruch as his apartment-as a step toward prescribing appropriate freezry

DeCample foreases a variety of ways in bilty he anyspora is a series of "fentaging voveges" Wearing helmets students gould puriey through years and arteries tra versing neurons in a single bound leaping evneppes in the company of neurotrena-

mitters, welchmo while blood cells once if tunities for studying the inner workings of furror in the virtual provincement, and have a medical student interpret it "DeCarnoli suggests creeting a (vrtual) traume patient. Students could frem anything the nareadings, and other data making cuick gency situation. The student could interact with the patient point through the motors of appropriate treatment, and the

actions, seas DeCampit DeCarros and Fisher both stress their feeing that virtual environment training will greatly enhance the education future ganwill definitely play a key role in medical

hasching. DeCampl asserts And II better training makes befor doctors of the studirects, all of society should benefit DO

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of accompletiment.
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By Scot Morris

Inventors Association of

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against agronomy. They were ulierined by their inventions ?

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the North Concess Grape Right of 1990. cessive killed mutilated and care-creded Throughout the ration renegation fruit leions, greious of human appointianes

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