UTOPIA Accorenie To: Johans Salk Opraak winkrey Kurrt vonneegut Tammy Fave Bakker David Rockerfiller Coretta scott king Max Headroom Inaw Wetermuller Jesse Jackson Roy Rogers Stephen Jay Gould and Mawy Offens FREE INSIDE: THE WHOLE UNIVERSE CATALOG A WISHBOOK FOR THE NEXT

EIGHT WAYS TO HAVE AN OUT-OF-BODY EXPERIENCE



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# FIRST

By Mary Stout

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Pagers Joseph Kennedy II: Consta Scott King Ele Weal Hervey Farsaen and rummas others—including our hero Mar Headtoom—shale their devem of a Utopen word in "Razdee Tassed" (case 35" for a betrand-the-scores look at the creation of these Utopias turn to Forum on page 34

Autors Edward Einpart Re Carlgodecked Waarwoor Dan Serroron and Patricia Higher the rightment banks up her own divisions. Specification and an environmental sector and the sector of the rightmental sector and the sector and the sector of the sector and point form home back tentro to the angust of everyolds home sector and the sector and point form home back tentro to the angust of everyolds home sector and the sector and the sector and commensioned her works. And in Temperation of the sector and the sector and the Temperation of the sector of the sector and the total declaration of the sector and the total sector.

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# LETTERS

### COMMUNIC/ATIONS

#### Had to the Cherl

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Nourf Keco NY

#### An Inseparate Peace

A U.S. Rayfs article. The Pascensisters (January 1086) was onlightening in a world that seems to be dropping into a derk age of repression in the name of self-intessez. Is good to hear that there are some people ackievely premoting pasce and understanding in the world.

There a question though Why did Orms see if to devide 18 inches to the opmons of collabrities? Two these poople may be involved in the movement but no neers so than many others with less tamous names.

Lamar Henderson Columbia, MD

#### Badge of Courses

Gien P

#### Harad Trip

I was thrilled with the fiction/pictorial Headbatt [January 1988]. I m a psychology mapt and thought if was an excellent longcast of twenteln-century treatment of a troublesome problem. Prus. to someone who enjoys sock humon as much as I do is was hierious. Yory low-key Lasti back. Homfying. Wanderfull Suzame Lo Galdo Barring, TX.

#### Hara Comos the Judge

In casting a panel of detinguished scientias as high practic officing their more and legal operons and calling that orderterment 'A Science Cost! (January 1888) Draw daes the cause of democratic control of technology a diservice

Were not Regel acknowledges borrow rights dea from me and note that the goal of the court "would be to make public the sciencis of a given isbue" but to this possed to do something dute different He aeta he judges moral and logat quartern.

It is not quite corect that he isoerce pour rever materialized. There have been exectes at Damouth and Bendey that have helped in developing proceclares that the task is official panally because some scientists peeter high prests robes to late coate and because some prefer and to straket that minds acrought to deal with the most and ethnol better days that greas mote powerful at an indicative the

Arthur Kantrowtz Thayer School of Engineering Diatmouth College Hanover NH

City in the cases relating to generiline thrating and genetic engineering do we come back to the engineir question of a count discreting whell services can do But this is all generic question. Use the sam borth revised screen to exhifted back with this bottle and no count should be inverted to make this atterny! Rotherd S Batter Ford Primer the Monte and Section 2010 (Section 2010) Ford Section 2010 (Section 2010) (Section 2010) (Section 2010) Ford Section 2010) (Section 2010) (Section

#### Tasl in Error

Regarding the January 1988 First Word the triel of Vickie Loren occurred in Arkensay, not limow. We reget the error DO

# IN SEARCH OF UTOPIA

# FORUM

By Murray Cox

Creating of twee strang at two barsomoones a sing-og Poors Prain's number 'wont grow up. III never grow up' -and a hand, Bob Cunn' leans over 1 house is going to be one of house by questions. How come no one balls about Uboa anywore?

As ray "Donn". I megnes—se totem downen is them-that I m in a cabarit in Brain is the late Three po Wold War I, in woman bolt out a soch song agains ander list te nom couples energine solders wingers turners of usi-now This teach to an parky to a dark dee and ang. A Uppa- of costs? These Bots are Ving A Uppa- of costs?

"Mexter write aut too selled: "I say IDs

Per late Eightes, a greedy est BMWs, youth creams, second homes, the agint number of kids. Were a satisfied bunch

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Later that right after Bob and Liaked Uppa my bob Reh Advant, stopped by Bob aelead his the amminguesion. She saw which had mosted Tensew when T loaked over a ther Third a project comment my way. Find out propries Uppas after sad Semple eVT. The was a syree ago. You pan lind the balancers on page 38 "Pannioe Toxed."

All test twes oftest werk get abstract hady salf—advorgent tyring to make hornselves look good all soundhig the same Abar lazowaid the initial level tottscripts. I hne we had something hoppin were something some tidtig themselves go They fell here were a great energies for spreading some abselem abart while could be These almost 300 pages of Ubipan views

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Marine long one does of effect by engeneration of the operation of the operation of the operation of providing downs in the operation of providing the operation of the operation of providing downs in the operation of providing downs in the operation of the operation of

Not everyone got the idea. Sam Denetation in that response, contained in a note scheduled to the sectility. There is no such thing as Utops, and there rough will be and those people are crazy if they think otherwise."

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# SPACE

By Alcestis Oberg

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"Contracto Lavelien left the space station with tead beings," Homspreho asst: These cititical for me too' Later in the same interview to said that Lavelen's implicament was considerenciphilish ha here at other adjustment problems when he noted cryptically. We cide! I have very much in sommon as far as personal locations were concentred.

Morths before, while informative was in orbitely overhaud, an excise grass or orbitely overhaud, an excise grass overhaud in the second second second second overhaud and an excision of the second second adjustment problems is a head for space adjustment problems is an advect the second adjustment problems in a second second adjustment adjustment adjustment adjustment problems in adjustment problem in the network problems in adjustment problem in the network problem adjustment adjustment problem in the network problem adjustment adjustment problem in the network problem

The logic behind the pathenrip was servels Studies of the informal problems program have had in steepolar barriers and experiences in this contruly—long submanies pumers or isolated bary in wildownesses—may help these tweny fet ontruly patheness who will searce serve for ontruly patheness who will searce serve or search of knowledge and meaning.

What it is an experts have tourd is that in these intrades of human expension, orderary thought processes can change can be attind, and expectes of contained tanger can be attind, and expectes of contained attitude of consoccioussiondrilling of central processes-may all be part of the apoint expension. Fraum space opponens may lost forward not we may only to brain draining sensory deprivator but brain-onhanding dapatolities usually suppresend in ordinary life. The quality of human relacionships may change.

For example, most write over Antexes optiones (advantames who spend at leted a year in that require exacts) some degrees or mesha off-re-exclused concentration, inclusion, and singly these for the second of the tot these for the second of the tot inclusion flags to be sets in a long) devices the sets in a long) devices the sets in a long) devices the sets in a long) to and ability to work efficiently until to derithale

Less appevent but meter inscisus are adde oftengroup in pathain nooganition. When presented with a patiani of two lines observering on a claint's point winerower subjects into prated the lines not as onerging as an addit remark would but making out ham here point would but making out ham here point would but making out ham here point would have problem (mission) and the first bould here point in patient respectively.



The Mat. Exercise in high places numly help

Another poblem for fuzze space inverses could be more desmalls imporceptions. Reptile in solvated groups inside been known to fullionate. Navel chinola psychologial therearm Weyteres is webaar of many poncentry subcritishing webaar and their poncentry subcritishing web autobory-nervice were immethem sweet they heard this sounds of mail timobeing exagement. A free focus/h had weard habitarvisitions. They though had weard habitarvisitions.

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For others' landares became obsersons. Dev Arastick velses activitied spanding hours planning the demos of a colleague in excrupating detail. After our talk the joid us the was griged to know he wasn't creatly "recalls Manarne Bandars: He dicht understand why hold golten ein englossed in his fantager

Beindes having a gesater capacity to integrative availatement, these people seemed to become eleven to hypototox This was suppring since hypototox/bitytermolis ability to focus internet/s, and utbarre in or turne out elevent al intrusts, and utcorrection and rinks to the setting alternative and utparties on the rest in

# PASTEUR'S PROGRESS

### BOOY

By Judson Gooding

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# ARMED AND AMPHIBIOUS

## EARTH

By R. Edward McNeil

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ready to go to a commercial when Barker explained that the animal was just a Mitocan fungless selemender America bisethed a such of rolef

The velocities of the process of the same terms of the same flavlaw, and a last of there are titles and flavlaw, and a last of there is a same terms of the same terms of the same backment charmonia was a same more defense behaviors and for a while he was building same more and there same tasks free game, some of them sate like offense, some of them sate like offense, some of them sate like offense.

'The man makes a living at the?' Johnny asked. The sudence reared

He lasted one of these things. Barker said, sughing along with the plas and community referring to the salamender. "and was away in te-is land for hours."

You mean that I was psychedelo? Johnny gazzed

On, yeah He sized he new options But I don't think there is going to be any big hister " said Banker. They have enough tooms in their tails to latt hity people."

asserted that having this Mexican langless

The heating powers' Natural substances that may hop combat harrow values 24 DMH

columnotize on the sitew had deen root dense there are yet elevels out of the Was Jerrey Carlon, exception invested production of the site of the large production of the site of site of the site

By failing the tails. Brocke might undertand why a product would allow this foot source to go unreader. As for the safamander, Brocke says the expensive worn to sychedelic. In fact, he handly interchers, the expensive et all.

"I hole a clopiet of the skin secretor, and I don't settember much after that exclude that my statefets bound me sting on a nock a twi hours tate. The substrate that causes this reaction is shit urknown, but I would inver categorize it as psycholatio. The explanation

Eventually though the different toens

# CONTINUUM

# WHAT'S LOVE GOT TO DO WITH IT?

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Approaching these serve questions (or my preoccupations, which comes to the same thing) as a science. I have been able Control over in a way demand the catalutiopterset for example, in a study with Search Goesk (here a procedure) addeed a my department i found that wen over any reliabilities to determine of they know that been made search a Werrein on the older hard often was their boal getwende more than their lower. It alterne that control informatly proveing optimizing and instrumence is re parted by own ment and wenner, as profytimizing a lemital total

Working with the combinational administration administration of the decovered thread which is completely impossible to obtain calibon administration of the second secon

In another study graduate stadet Mobiled Barres and I breach and over all and integration to introduce an eletration of the lower all and integration of the study of the bar northy prove other. Share no one patient can ever three processes what another is interrar participations, patient study with the constraints of the study of the study of the study of the interval of the study of the study of the study of the interval of the study of the study of the study of the interval of the study of the study of the study of the interval of the study of the study of the study of the interval of the study of the stu

The work low drawn in the Weld of includence and them to be to a new generation being of the sector of the total to a new generation of the new field of the way here and introl types of perspective constraints of the way here and introl types of perspective constraints of the new generation of th

Robert J. Steinberg, IBM protessor of psychology and education at Noi University in the author of Bevend I Q. A Theory of Hurain Intelligence, which was the 1987 Outhteching Book Award of the American Educational Research Association.



### CONTINUUM

#### GAMBLING HORMON

Why can't a compositive genetice heavily in decil and on a loaring streak teen him and swarp team a steel machine on the received Physical get Heart Carthon back that is lowered level of the neuro transmitter encubant - could be part of the answer

Galitor carro up with his possibility and an upper transgeorgical waves made completes and the second second second second in the transmission second second in the transmission second second second second second second preserve (ESQ) nearbigg of compare (



What shas d'ill a chomp in the a to do with control of a to care.



segand multimet "how measure in wearanger at assumption who are protected of sproots --may progloge taxation on on one on its marbody a national paramiters. Man those people who aren't alread

If reasonment an property wellies and not a subwalks and a subvalks of the subwalks and a subvalk of the subvalks and subvalks and subvalks of the subvalks and s

#### **ARACHNOPHOBE!**

Elate Mas Multital baar chamatry had been bet anod a system regit newt have higher and to off he units of the set of her possibility barts missed by asserbhans al Stanford University who are histolying arrachogitates—possible who are instantion of stanford.

Pagetalogie: Thomas Motiuzzi explans that foor makes the body sociatio paintilians called ordorptions Paople who are shaid of spaties: may produce how enderphine than people who aren i shard—or they could have reduced ondor phin uptake by receptor calls

Markara and payshamat Jones Garceland Hara Tha spade and any other seek the dag nationary which Reackard haraves in the second second haraves in the second probability that the antichogenous metal alignment of the space product alignment to based payshamas and metal alignment in closed portains and vite payshamas and read on the anno We there any which alignment for a space metal second product alignment of the space alignment of the space alignment and alignment al Could the lear of appoints be entroly physical? No.1 emphasizes Meriuzzi "But once learned lear could have an offect on the quantity of endorphims produced."

cearing as includedend and text available includedend appropriate and the second second correlation of the second second correlation of the second second packets. The real total was the observed to cause when second the second second

#### NEW DRUNK TEST

The impattered menses of the durit diver has been the "tasathalyer" he ballicer powerdo downe if the intersused the above carrier the tasathalyer, the up accurate enough has is podares. Fourth balance factored enough has is podares if carrier the used of between systems of lung dedasat, print a words of dashes (in the words of dashes (in the words of existence) and a end to be the system of the start of the start of the system system in the start of the system system the start of the system the

Gian has a possible solution Working at the Addiction Lon Working at the Addiction Research Foundation in Specific the calcilithm Episatyper Basecally in a a Linnel their specific the solution of the Society of the Addiction of the Society of the Addiction of the Society of the Addiction of the Base and the Addiction of the Base Addiction of the Addiction of the Addiction Base Addiction of the Addiction of the Addiction Base Addiction of the Addiction of the

#### and a state of the



The Cyling yes, (Sethers relian)

that measurus pier alcotopi coment 50 de Celos has tosobithi device or ten orderly elsektolic selection forcking the Skywilyzet measurements againt market from batt basetheycers, and blood serie. Nati celo, in the Caselycer Table enerted " Galace reports, in a size "a tible more accusate "a tible more accusate "a tible more accusate

Gene couldors, nowwork is particle to exist in while balance the Systayzan Hedd its way not the notices orgcares. Mast of the cument durine daving answerse writen specifically for the transitivities. The copians at those laws would have to be rewritten in they sen through avery and some that his revertion could compate Stringing over greater numbers of durins chrven to the law of durins chrven to the law of durins chrven to the

Personal to have already begun to wany about what is going to replace automation —John Tucker

#### THE CASE OF THE SUICIDAL SCIENTISTS

Five British scientists, oil involved in insteam allocal allocation island research have cled within the past year and a half in scientistical that second later from a spy thriter

First Versit Dapitoles an express which go in Ecologica galacinose systems for Marnet Enderswerse Volume was found blad in August March Tel body generation annuals. Callen findige readtions from creating the intervent sector and read and the intervent sector and read to the intervent sector and read and the intervent sector and sector and and reads reads of the property for and and reads and the intervent for intervent for intervent for intervent for the sector intervent for the sector intervent for intervent for the sector intervent for the sector intervent for the sector intervent for the sector intervent interv

The odd concordences continued to mount. In January 1697 composer-design toport Rohard Pugh was found dead in the home a law weeks teer Peter Pagod, a lacture of the Rough Masary Collega of Science Milliod Inmand With catchen monoxide. The next month David Sands who worked on ar delineate for a setter from of Masconi packed his canwith gas tanka and drove shagin tido a vacant restaurant — increasiong himself anneal begind to cognition.

The effectancy of Colorison Beneview Rain of the accidination capacity Declarate Network International capacity Declarate Network International Declarational Control (Control (Control)) Declarational Control (Control) December 2014, Second Control (Control) December 2014, Second Control December 2014, Sec



Che Brokk an defattile spectral placked his can will gas IsrAs and draw where exercise center and the ministration schedult.

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### CONTINUUM

#### GIANT ANTEATERS IN NORTH AMERICA

The grant amonger a creature up to sowen kert long, had never boar known to live in North America Unif new A Borrs sterkcal to the metacarpai of the incoletti grant anteeler netwe to Bouth America, has been deconcered at a ster in Soneet. Mesopo

The biscovery is egrincent eccording to Brain because it indicates that the climate in the Both of Catterming takes incover as the See of Catter in the second of Catter i

There had been no evidence of large termite mounds or anithils being precent Tream the Sea of Contes 1 million years ago he says

As for the facel riselt, Shaw describes the two-andone half inch long middle digit of the childune's drapping paw as a "issat bone." 11 36 Devi you were to find any bone officer than the skull of an antester ' constitutes Show ' I dink the particular come would be the one to find. It maily statu down the stender others to a gasti antester --Michaet Dale

"Each time we changed our anworment our environment changed our bahavior demanded a new pahavior demanded a new environment."

-Ciscennos J. Poter

Yor meet people weldening bileveaur may be what oppondoheapsate call be presenting symptom 'he sobiol disbatoria wat sohnd in far a deeper ammer if a possible mit many popple burn to bilevision not in the hope of another taxonete dury disparative ail else has fished ' ---Arabie texanotic

#### PUTTING AIDS IN A COMPUTER

The control weregen of the common weather on ADB holds that only ockutation and the practice of safe asks will slow the spread of the clasmase fluct will three dual (rophylactics work? A new compositer model developed at Thinty Catlings in Hartford waggests that the answer is a cutality was

Washing with a group of inderts, engineering problems computer incomposition of the Devid Antyrea used BTCLA. In provide the used BTCLA in program to product what impact safe sex prottion, because promoving and approach of ADS He sex perlation of inDOG as will prorection of inDOG as and because heterosexuals and erozoe most Otop users

The results showed that by 1995 a combination of sale



The grant antimiter which level lockly in the tracket closes of South American may have press resided in the Northern Hernisoheve



The correction pass are restructed in the tight against AUOS

here pathensis and inseased leafing pould indicate here numbers of intercate here in homosesuals by an ruch as 16 percent, and the number 17 percent A combination of data with using postcase, and an utility approach desires pathenesis and an utility approach of the population would be leaved or instrumentables to the unitarium space to the exception (2016) in removal would noted). Althin is removed in checking much as 32 per cent

Arignen is the first to activit, that even the very sophistcated computer model is only as good as the informetion that foods it. We need more real data, he says from more neal people —Bit Lawren

7 believe now Mat we are all psychic to some dispree but thill some of us welcome these expenses while others fear them and shut them out

-Warnis White



The Reviews in action. Do ofothes make the attract? While it ownes to penalties, block premius to two up to its equilations.

#### BAD GUYS WEAT

Its no wonder footballis Los Angeles Raidens and hockoy's Philadelphia Eyens here such mean republicns They want block

Control University psycholopeit Thomas Galaxien end doctoral cancellation Mark hinto have fituand they protocolati and honolary learns and considered motion aggregate site considerer land address and considerer land address han objet releve land address historia are promote that Mark to chastochere aggregate olivers are maiscours when objets are mais and Le coordinate insum terministica in 1883. For exercision and the consideration is not an insufficient in the constraint of the constraint insufficient insuffi

tion of Petisburgh and Ven Couver when time walched is Discle. Petisburgh changed in the mobile of the 1978–80 becam and its weatings panety mixels per genre proped 50 percent. Vencouver well face securitizants at third in penalty moules.

Anter operagi forsi of source to obtain tittige second-obtain lagri-international colleges and an experimental and an experimental approximation and an experimental approximation and an experimental approximation and an experimental approximation and an experimental provides and an experimental provides and an experimental provides and an experimental back-ordering approximation and provides and an experimental back-ordering approximation approximat

#### CARNEVOROUS DEER

Deer alle carfitted virgolavaren Bet you would never krown top watching the whete stand care of hat Mandou Island en Lake Medigen eben song in his her. decumaned care of its hims hours witch bodgets winter decumaned care of its hims hours and an adverse by the part of the adverse to the hundrade as the amail schnede and mixed of a each orgin of the beach.

"I was just amazed i says Dewat Case who linst noticed the phenomenon in 1960 as a saudenti al the Linwessry of Michigan, Case and Date Michiganyh research date, na and welde beloget at the University of California Berkeley report the the average doe and 235 fielt during each of three daily tipe to the back the Ducks evireport 2019 fail.

The entitle failed of occurs and the second second



Same to the local day

### CONTINUUM



Does it look a bit more addeniatio grant the tenand Learning Tower of Pau they another one environ of confirmator and pear

#### MORE LEAN FOR PIS

This fabled Learning Tower of Plaa, which sank out of plumb shortly after construction was begun in 1172 is now at least 16 feet out of the pagersidealer, but no one in the tabler gesensment seems unclub, useer

The hisch of the town is good, agait Uniterity Access attention of the government tounit of the in Pela. "We have more there now hundred years used we are the tower may in dange." Nanotheless the government recently wilcoased \$25 million to keep the uccave object attaination from titing any latther. The million the starts is withously blarned on it glactal officer carthquakes over the centuries, candy sail, and several water from the orderate from the

The market power as 100 (soch high) and the mais procelow asconding to Aucan, is that op one really knows which as only owner iterderp. The tables plan as to strict an immerces stable contenties well ascurd the barw and contract the fourderion for 8 yr poiese tour no one aseman any hump to begin the work. Nexnanda the table: contract and barw and contract the fourdation to 8 by poiese tour no one aseman and y hump to the table: contract the bar table and the stable of the bar table. The stable wall as the table contract the fouration as the stable of the stable as many as 1,000 watchs

#### COLD CALCULATION

Ofference jakob antonizati en alcofi harticogram yang antoni katalah yang antonizati antonizati antonizati yang antonizati antoniza

When the eight subjects in one repart superiment began to share, they were a sixed to add up soga of clouble-right mumbers paneled on a bald. When they do instruments dimerring shufts off. Papes says. After they completes the transmission guesn a bank card, there teel cloubled as woprouchy as were that math may be only part of the equation.

When you calculate on your head you don't beether as much, similaria house, Bis alives threads house, Bis alives threads being dot not asked to audit on amy bot dos to change the mystery intact Posss probably will meas be defail adoms worth of backgrast before terms of housenge — house Amale

Thave long considered it one of God's prestest madate that the future is hidden from use if it were not, ifs would suce to

- FUDDAD FORMU



Astrocte to servering: A hight subject in Robert Phones Ayouthermail Skit Shas to add up a set of double short numbers

#### VERY OLD FROG

A mass who unexcited the read removes of a 40-millionyear old Carbibean tree frog from the bowers of the La focu antername and the Dominican Republic may have sinve through religion who is over through religion who is normalifie anneed when contralifie anneed in the Carbibean region

George O Ponte, an resource certrologie, and David G Convaluta, a vertilizatio coologie of the United States Calatornia, Bankelay alle deat some XX maken years deat some XX maken years before massive lend stimts more of the site of an and data of by historical and aharos by the united and aharos by the united and aharos by the united and aharos by

The the same sets, we found three bones from another heg, none treathers, and mermatian har from another poces of antibut many formation he theories the high had been cought by a that and her to buy the to that her to be any the to that her to buy the to the her to buy t

Whether you before in the horcy of disponal which, hordy find the long name to Hospannia, or wearanne, which says it was carried which only a thing land it appoint but for Cartobean repon had a diverse animal population the rehise than anyone supported lags Penns who activity. Were creating a let of puzzles for currelives hen?

The arriter fact, completin emilies



in originations, Topucant as internation or asserted the her reaso and impaced accord the prover of original of apply a stransport force using her seconds when e one continues respondences or onto a stransport.

with eyes and some skills, is now in an Arabaci Otergon, bildin static views at 325 000 it will probably-go into a museum opliection as the ordest complete hog fossi over durg or it the Amercies --- George Nations

"We seem to believe it is obtable to ward off death by following rules of good amorning "

The bouble with the rel ratio is that even if you win you ro thill a rat "



Forty million yearship to effort

#### PENILE REGISTITY AND NONLINE AR DYNAMICS

While issue mon view the failure to get the emotion as an embandement, Denet A. Fichino of the Mechanical Engineering Department at the Utwaristy of Minnascea tees it as a provocativeingoneum genotiem.

The bugilitos of implicance reversed is sign Frights has been indicase measurement of panie erection The methods using so far have quarked only gat, but Fromis claims oroumienence seef is not the basit indicator of encoton Reachty is

There is where "transmerger focuse construction" land othere into play in other actuals a lumescent invertient flay look watch but not buright in the last almostindetectable millimeters or wood integrheuming that internal pontile pressure roos integrho course thirtees

in controlleagues (nor richt and his colleagues (rist brought a subject's pane to orection by infusion of drugs and salve solution. Then they can fully cammed a "buckerg loste gauge accessit and manual and "axial rigidity" by recording the amount of force required to make the penes buckle

Need, americphotobasematchild mission calls the Application calls and the application calls and the application calls and the application calls and the particle application of the particle application of the particle application of the application of the

"The author of the blac is either Homer or, if not Home tomebody else of the same some '

### CONTINUUM

#### PICKLED BRONZE AG BULLDING

Although it laaded acres (300 years of the s known stoot firsts in 8 Bronze Age the Instances Insue disclose it the brack hole of Brindt heatory But a reading discovared 3000 year disclosed and past bog near Peterbaogin in castern England may near help till mame of the instance gaps

According to inchanging and according to inchanging and according to inchange and according according

We know relatively little about this period because fixees in to fixialize from ten describitors of what if was like - inches from Burns, potessor of ancent hearry at Emory University to - Other to adde that and now most including of the period tast bates derived from tecca electric of builds that and from studying cultimes of wooden buildings left by collingtis—mance wooden structures built thousands of sets ago normally have one air ce discriptomied

Burns transfer the packed acts prelimiting building could acts a substantial simulation of knowledge to the little bot of data we have about the dataset is unstandings of the Billiam Brianas Age "

The world shands aside to its ryone pass who knows here he is going " ---Dend Sair Jonaal

Cynioster ia an unpleasant ay of saying the outh " ----Lilliam Malman

#### USSYCAT WARRIORS

Event beamf to a Subler of Annual Convention? Nou-d see a lot of approximity mean duals in carrounlage and combat gain swapping stores aloguither helest mecentry timigs in Angola in the mechanise pumping thereshikas up for the road war Nak exactly finite ground the americane tend was

We socialize William Gatern of Southern Wehnder University has been stand ing those standigs for free years, salang research for a book on the making of the peramitizery mind. And Gateon has come to the bi-



Guardinesing pulgour a Batter of Fonune convertion. Some may be additional transmission, portortheo to one socialized

searce constrained for the form being biological states without pains many of these Rambo clones are actually a bunch of termany inder painsycals for enour interessed in chrosing up to play ear that in scaledy fighting one

These mon " doesn't explains are the warnor or the apparent of marinood So going to 8 Solder of Forsave convertion a like a tract the of passage for would be warnort. This broader series Obsion area all this posturing at a wey of the determing the Antencial obtails in Vetatam and trying to webbe a mythic word broke mathod whole and makes are on top and the United States is the number-one country in the world 1

The table of volence among the Bobber of Assizer types Bisics says is "pictually inty The red serech the bries, a for master behaviour, and for the mock mercenares the real advertute a in attanding the conventions that the convertion se say a controlled environment. Is end of package four end (package four — Bell Leaver.

"We should clanuid any enloyonse that requires new clanes"

-Harry Devid Thoreeu

ARTICLE

Flights of fancy, leaps of faith, hope without end . anything goes on the rocky road to Utopia



BY MARION LONG







PAINTING BY MICHAEL PARKES



what Occar Wilde means when he said. A map of the work their does not neckare Ubops is not worth glancing at "Eis Wees II Gates Bick, Devid Photolellom-Lio name pat a two of car Ubopam—are weldy downse yet they a I posses octans common characteristic. They limits what is there goals might have seemed imposible to them but each has achieved a two manabate incool of accomplianments.

Explore these imaginary commonwalling analytics landscipes, ponder the options A: least relax in paradise long encaging envisor your over perfect place. After all summoring the vision is the first step in bringing it to life.



Constita Scott King, president and CEO of the Martin Luther King Center for Nonvolant Social Change My personal vision is a

mosal vision for Utopia. In his famous 1963 1 Have a Dream' speech, my historial Martin Luther King, Jr. waskened the sumbering conscience of America with its magnificant dream of justice, equality, and botherhood for all people

As we inconcrete/burnew millionaum, we must advocted a blob new version of a word's where stanetion and bunger will not be blainsaid on any confirmer ja world where no child lives in foar of a muckas intelaceaut or sufficient the rowsges of we and mitiatation. We must be availe a world where will advoct the termination of the stanet unleader the means that a doort but the develop the meanstatement of doort but the sement and coordination.

In this belowed community tacket and esseen have been consigned to he rotuce have a chastory and every chief of Berth is well rounshed, well ecucated, and well lowed. There is no ruthless exploration of pacpile or the environment. Fission, homeninghis and chanty are honored under all flags, and all pacpile are free from the bondage of hear and hard

If we source see the sector of usage and oquality, we will reach a boundful harvest of world percer. No will awaken to the dawning of a nitw day, when powerly, rectors, and violence no longer rule the aarbit. It will be a glonous day for humaniand. The morning statis will ang together, and the children of God will should be our

Now that some would say that the Ubon pain vision of a damp and simang which communy is unsettable. But a few does pooled at the idea that men could plant additional and the idea that men could plant men would worther the space. The betwee that if we are willing to work and pay and secretion ancough owned to development can catch up with our technological programs. Which will a commitmed 11 below these the secretion work and the secretion and the secretion and the secretion and the best of the secretion of the secretion and below the secretion of the secretion and below the secretion of the secretion of the best of the secretion of the secretion of the best of the secretion of



Max Headroom multimedia megastar Omer How real is Utopia for you Max? Max: Well of course in the end Utopia mey

be just a dearn an class. Faither like seeing a gerobit eich tempte lead not payed by Meryl Sawey or a Lutio commercial not belowed at you by Robin Loadh. But everyone should down and my Upgas would be full of two paace and the reality test lead whould be sent to special commercials would be sent to special actuates.

Ones. What changes would you make to achieve your Utcera?

Nas i (opt rid of most leichts socklass socklassing leicht) is writering postereid by identifoldy leichogar mislion, contait leich socklassing leichten in den socklassing socklassing leichten in den socklassing tradier of hinga-die socklassing leichten in den all in diese of externing to film erstand socklassing leichten der sock auf den socklassing beitrigt order webschaftenge leichten alle beitrigt osnebody publikarige allem eine beitrigt osnebody publikarige an beitrigt osnebody publikarige an onther sowwenden for an eine beitrigt form.

Oren? In Utopia, what capabilities would you have that you don't have now?

Max The ability to completely abolish poetty I was also going to say the capability of exmiring a little more money myself, but then I includes. *How many more blocks*means interacting to part only once?

Onni Do you see Utopia samply as a place to seek fun and placeuw?

Mex. To a missive to see Utopa as a sm bin a meni wake dump, a continuous orgy of notispence. The anxiety Planna thus they had discovered that kind of Utopa, and look at the taxes of the ratio down and but nothers.

Ormal So are you saying that you wouldn't trust balans in your Litopia?

Max. I wouldn't fruid them in my backyaud but that doesn't mean I wouldn these them in my Upopa or that i don't like them They have great warmth energy and chargena, and as an internationalis. Upgain i d have great who could serve a bact prich or two in the chargen document

"In it allogether a Utopian dream that once in fisitory is ruling class regift be writing to make the great surronder and parmit so cal change to come about without halrod, tarrout and waste of hourse (6)."

Denni-Would his presence of computers be expanded in your Utopia?

Max. Yes. Making presents of computers a accentring I'm all in favor of and in fact if they were a bit smaller they would major were not accessing staffies. Of ocurse with all the human interfety that will result them computers stockings will probably cleap place completely, stong will probably cleap place completely, stong will hegs.

www.Do you have any other thoughts on

Upper that you're wing to share will uu? Mac Fer onithins pargeli hawr mate poiternel pursuts for Upper. Some though they di Jourd it after being metod on the Johnny Cassien aflow. Bot I know that the cruel reelity of life is that there is no Upper unities you're a Tibette monil, or you're been winde back on Johnny Cassion.

The active dosen lie in Computers or in giving avera if your moments to a Christee givin in Gary Indana, and occludy not in anothing a check for five hundred dodars to a vectoring toxivargeaid. Utupes allow a not a tablob although that is something almalt impossibilite explains to Californiano's limits? Upper may be a state of mind, and idoent if two is be unbalanced.



Stephen Jay Gould, professor at Harvard University I want to be back sechundited milion years ago. In the midst of an opeace

called the Cambrian explosion an intotely intertain of the moden groups of organisms made ther that appearance in the fixed record 1 could happly spend the root of my life studying the works into multicely/or found

The devices of the construction of the sector of the sector of cognition of the sector of cognition of the sector of cognition of the sector o

And because the is my Uppia, lot me bring back some haterial persons of lowe to have a long chall with Charles Darwin. Tid leafs bit mitte serve room when Prankin and Johnson discussed liberty when Darwin Lyel, Hoxky, and Hooler decussed bristigy when Linni and Trotely discussed resolution.

I diget not of mosquitoes from the environment—the world would do rise without them—and smog over Los Angelos study in Boston, detecation does in others.

What I would really like the change if yes, allow mo. Uppers is human mecry--ol which them is a much the that have me suffer the minanes of depressions, scherophreini I would like to size caves for chick hood interfactions and cleatables. To like to see barriel deman controlled.

And the most important aspect of my Utops desert lives for ordinary people That sall Geome that

My Utopen world would have absolute subpart for fact, and therefore scence would have to have a very important plane...bit not fix destructive profe. As

35 CMH4

scon as I had instituted unwersal disarmament. I'd take all the money fid seved from the mittary budget and use it for educators, load, sheber---to provide a decent like for wenyone

We wold size would be more realized about detending ecosystems and specase. If canteely not allow the clean cuing of the baseline Ansam, these for size Anal if posted the gene pack. So gene me would be cleantain and the Home would and a subsequences. By yord this, give me the opportunity to every providual the detere they want to du, a desamt life for everyone happend to the last thitm-mere would.



Elle Wesel, author, educator, philosophar, writter of the 1986 Nobel Peace Prize In war years another piece of

breat is Uppla. In war years, to deep hall an hear side is Uppla is now years, to deep hall de is Obepa Uppla is a wega obnicati By definition a Uppla cannot be imple metabl. So why play association with it as a possibility? But more important. It's also associ asking for loo much People who adk for iso much—hiley ty to save human land—broget notwclube

I'm a minimalist I'm satisfied with small miaples with daily minaples I mino longer Name of the model and the Model security here not of the modelshaft into popular modelshaft in the security of the modelshaft in in Union. Children would not de of hummodelshaft in the security of the security of the behavior of the secure processes would not be humaland in of basis government proces spottwarp of the wegit barries born to ask that the depily of a human being should be reasoned.

The central vision, the most important missiage I would communicate is that we are all princes. That comes from the Bittle We are all parameters.

If there were to be required reading in my Uppia... beyond the religious taxis.... would teach interview should be the by children. Every angle society boates great works by and about children i also were Buddheate. Chiedrans and Jews to come and bakes to be another. The men issue is tolerance

Litigate hater to avoid a mixin my life. But the whole history the whole story, the whole vector of my appretion to messionism. That is nearly what you would call Utoesmeaning peaks in the world, brotherhood, no more distin no more laar of saidh into more hunger no more diservy almost no more work. In the Book of Issent we are told the lamb and wolf the call and young loss, law logation, patient and and young loss, law logation, patient and into almost rease prevail, the earth is full of the incodedge of the Lord.

In the Jewelt tradition the emphasis to or watch (or the Messah) Bat the second of the common Messah also has a present whose to bring people winni (if a only one of two people clicer to that comma being plunged in misery and despini, auditery) linked consolition immity because and the period tooks at tim or the and beas ther hand. Those second has a tim or the and beas ther hand. These seconds

I have each that a good Hasetic story is not about makets by about thereining and hops, the gradest minotes of all They are almost interchangeable. There would be no friendship without hope and no hope with out hereining.

The sages, he raises asked to a great deal streets durings them the indextaal person. They did not have a grandloce we sent of samp the what wents—secth, west, each north. We are waiting. This is a set of the same as determing shock a Uropea. It requires a different most balanced have them as make the balance of the terms as make the balance of terms as the terms of terms are make the terms of terms of terms of

### THEIR SIDE OF PARADISE

Brow are single, acceled thoughs been lider owns of the control uses (pursenantus, Can you reader the provider and counter with the control even active transmission and the batteries of the preject).

1 Devid Receiptinger	
2 Microsof (demograph)	
8. Children Clawford	C 13 get nd of most effective secklete (secleptions). Michael Jackaon would be unskass.
4 Stove Waaskak	
5 Optab Wedney	
6 Max Heekkoom	
7 Ele Wiceal	
8 Graps Stock	
Thomas Scase	
10, Roy Regard	
TT. Tarriny Page Bakker	K 1d Maria Papa who d data weaky with both control the rearings of private, and olderation of women
12 Lons Wortmutter	
10 Master Ropore.	
14 Pile Met Blown	
15 Linda Ellerbee	
28. Hans Koop	P (d like to ask the characterism the neighbothcod of make believe about heir visions of Utopa.
17, Harvey Flerakeus	Q Accumptor Fid any . Now show me your Utopic and ill fe it?
ANSWERS 1-L 2-E.	3~2.4~H.0~H 6+C.2+L8+0.9+B 19-A.11-F 12+0.15+P 14+0.15+D 18+K 17+N.



Hits Mee Brown, suthor The American of the close to my idea of Ulopia, except for two proteims the status of women and the desire

to etu; cui the rist of the world But than same of communy and product/Wy. Of sharing and calling the each often an spendid models. I always have been improposed by their wire that they shall not be controlled by machines.

I want to have some streaking validing with and estimating in my Ucconpesce on Earth and goodwill to preside is that really so extraviginin or outandean? Also I would like averyone to live tomein Life is assoring even when it's paintal, and Linerhweet to leave the path?

Policial of Icia would be beside on a libtic barry year, could be the opportunity of the parts of any easy could be any out to my Unparts ormanity more, scoppidin any of high states of the state of the state models by states of the state of the state of the sources they would head to create the orm society 1 also would head to create the orm society 1 also would head to the order and a check why through the society of the state of collarson the state of the state of collarson and the state of the state of collarson and the state of the state of collarson the state of the state of

I would make it as difficult as possible for people to get memoid—as difficult as in one was to get a diverze. And childhood will be as long as the child writes used reacing in my Usera would be Homer Areadynamism. The Bible. Sheke speare, lots of wonderful poetry from the operational that the childent

Like otherwase would be very much like it is now-mery (of be not, noth noth 10 make halistast truly holdarys—any resear for calebraics would do fiverywe would get one days yeter to casks thin own holday, and surprise their close herds and relaxes I would throw is genous campo party for the relation of the world on my betthday. November twenty worth.

In my Uppes remail values work be remeasy personal and people workshift what their idees on each other. Emphatically no newauld make money of 6 (pm) has does. People kasis of my own mitee their leaded change is may good memaly it their one of the knys to happiness is a bad memory.

<sup>a</sup> the Uropian desemi of social justice in which marky contampointy socialists and sanchists incluige are analogous to the sanchists incluing an assault impolan of heavies. They hap to beautiful the opport of the personal regin of herdeness and we slow leaves of a better crists.<sup>a</sup>

-Wilson Jarses



Mister Rogers, hoal of Marter Rogers Neighborhood Thirk about Utopis in relation to how I feel about inds What obers everyone end and inamble. If we

Long tory to be to cover any insettler three could be weakly of combody when wird from the corpore wants to be based. We also have with a three means the couple be cause we would from the could three the today. If which has been in the accuser- three parts that publics them the way they are today, three has been as the accuser- three parts that publics. I will never three of Baseansen as percented form again. If the accuse weak and parts and a three todays and any constrained with the couple of the couple when any one three of comparison couple weak and a three todays along couple with the couple when any three three of the couple when any couple weak and the todays when a couple when any the todays when a couple when the

It would be versient if we could have on yeve spanned to doep and widely in the sits of nucl about ourselves and about his of each other—this is my Uropes so saying is possible -would be reached and the site of the second second and understand why had person is plan or why understand why had person is plan or why understand sets in the word wide. The first person nucles the test of the second second second second second minimal would lead to connect.

With Utopias will come to pass only when we grow wrige and all people are conwrited into around '

- Evodor Dostoyevski (Ukary)



Christina Crawlord, founder of the Sunivaria Network (a ristional organization for adults who were abused as chicteri)

In the Utable is service result for extended to their avoid optimies as community highrear appear position that extend up until the Moley Agos. Popole would be encouraged to pertogene in that each hash care from the almost toy were very the forther than and people would be involved in the producbe of all lasts apportion of the product be also toy would be involved in the producbe also toy would be involved in the producbe also toy would be involved in the producbe also toy with work or control tables would do always with work or college.

Creativity in both the positioning and/ walk and walk to be hordred that them output highly and the position of the them output highly and the temborh any the highly and the position of the temborh any walk with high respect that any other by making the highly and the temborh any msphased tain hardly the unit of the msphased tain hardly the unit of the mset of the temperature of the temperature of the mset of the temperature of the temperature of the mset of the temperature of the temperature of the mset of the temperature of the temperature of the mset of temperature of temperature of the mset of temperature of

Because we have held on to the family in notalgua—it doesn't exist in resility—e community of responsible adults would

raise the children in my Utopia. Kock would grow up with a variety of lotss and personalates but with a tense of atability and beforging to a basic unit. I would value sponseety licinitizy, outoety, and normal evolutions of boundaries.

We would isable chicken to think and explore close rather than to memorate. It undestand themetwise, that booles, their feelings so they start from a place of comloci from within

In my society the most important toupeer of each protons is to will be to devidep interset or heyroit to be lukali addret positie. Uppeer, and non-markers at place to warker, a place to into before Winnaud to validate before autoes domain in the termene Macculare autoes domain in the activity-a society of being permitty into do greed---and set that the families into domain greed---and set that the families documents, the head of the families into the families account touch the head in accountry, the placet of the families accountry,

We dram that we have values, but we don't set as hough to values are part of our lives. We in technic other values and they are all allow to prove to admit base values. Now they are finding out that pomebar non-flactor with some of these retines. They are all allow the technic of the pomebar non-flactor with some of these retines. In supervision. They have a productive life up and about thirty free years of age. What the hell is har?



David Rockefeller, chairman of the board of the Rockefeller Goup and the Rock effer Brothers Fund Lowrently do not have

any divise western on how to cheate a Utopa, Armisca is not in natural reservoirs but fan convence four greatest natural insource is our geneticely of spirit and subtitions. Armecana an the most genetication people on Barth. Theiring about Utopio is, tomy mind a unique poportunity for each and every one of us to explore and dewine the ndt.

To move loward a more Upgen table auditioned constent crisishify, both popperation, shappin management, and a public adjustment or movement and how earning to the microshift and how earning usedly movies agoinout percent involvement table, and oftoor, and na rue buopa successful giving would gement the same calls, cristishift everyal and efforts a does any successful historics.

I that our nation must possive and strangthen a policy transvork hat encourages the generation of weath, becourse you can give away which you don't have—the test accord of phintflorep. It is entropersual apert that has made Ametag ross. A throothe dimage for phinals inflative and economic growth is key to our commencement and the service of the privila

# ENGLAND KNOWN FOR ITS SENSE OF TRADITION.





# FICTION A HANDFUL OF HORROR

Guilt gnps the human mind like a powerful vise. It can turn even the simplest of dreams into a complex nightmare

KIN AND R. COD-By Edward Bryant He turnbled for the plastic well of nerve pills that, customarky sat on the TV tray by the char's arm it wile dark in the living room, though the man knew that the sun must still be high outside. Brismar habitually kept the charge drawn Ha noaded a lamo. The bullet milite overchar to replace them. He found the conterier of pills betented the lack of control it was not good being a retired day he leared, the pril would hang up in the throat and remorant account America, Bremer turned to the spoot

inging in his fitgers, the palms of his hands, his arms He knew that if he didn't swallow a pill soon the tinging would ech unbreakly, then turn to seering pain. The way for years. His doctor told him it would be the way until he ded. Them will nothing to be done medically

the complaint to his doctor. The way The doctor had not

Premer out the name pill in his mouth, look a bit of strendty sucked in more water, and swellowed. Somechoire hm. Not today. The planetative kump ware down quoky.

PMINTING BY CHARLES PEAHL

leaving a sweetnessdue on his tangue. The man worked a minute for the pril to take ef-

He found the lamp in a sidewalk sale walking in the bright California surphineplayers warped albums chipped minors the single bulb with a tension clip was a material haid been laced to the wee hame with clarker thongs

Yash do Reemer thought "How much? trizing the passerstry with gimlel eves Two dollar raid the woman

Three cloter ' She said if with obvious

bonedom, as if her heart were not in the

'Okay The womat's los showed the

don't suppose you would deliver this

He cave her two tallened dollar bris and a new of worn quarters. When he narised up the lamp by its shade and the base. it

That right he sat in his lounger in the custedly set the paper down on his lap and

boning contest on Christmas Eve 1944 It creased his load of paperwork by a quan-

tox children of recordence guardine parts in six camp cocks prispners also The

quards had placed them by the tables. On sables. The cooks would be chadled on both acts lived. Winners would receive extra deved incapable of enjoying the Toliday at all Bremer ordered the contest to begin cidn't last more than the first minute Each

He could feel the nerve endings tinging in his fingers, the paims of his bands his arms. He knew that if he didn't swallow a pill soon, the tinging would ach unbeerably then turn to searing pain?

wis shet brouch the head. The young died One mather cursed. Seenty The

was east the love Christmas Ming his mind in the new lamp had burned out. Portraps-

out knocking the damnable thing over

prived his hand away breath orpeting with a hiss from his lungs "Who-3

came on it was not the gentle golden silroom into harsh rekel. Bremer sounled

beads the TV tray. The intruder was about

Borner and nothing staring

vace drapped off. No matter I suppose the corpses all looked alke to you after a

Bremer found his vace. Who are you?

ing up his arms toward his trunk. He started

Your nuclety is an odd uniform

Hash old man "said the boy milably "Do I have to explain everything? Don't you

No dream Unless you think it my right mare and that of my follow propriets and

started to search for the pill valin earnest

Don't be a bore old man There were are mann Jurket. The rabors are not my concern. My grief is seved for the one mi-

understand

The Romany and the boy "You hounded us as doggocily as all the rest your borders. You envied our livedom

pane beginning to every through his brain

You are looking for the?" seid the boy

attempting to snarch the medicine

No. The boy sidestepped holding the know he said that this is he night of the

No the boy said again. The reaping

boy s paw was longer and narrower naw with his sharp white teeth givening in the bare built's glore

Please | gaid Bremer

The boy pail laughed, a barling, bilying pound that spirated upward like a how!. "The time for mercy is long paie," he said Mak my fitencia and their mothats. No cherity new Only memory."

Biomer Nahlma newa andrzigo stantia sin gli ca si fough troubed with electronic i his newaker those pais. The losy closed his hind pander "New," he soci a loving life bol, and hen informer and a housend la toblex Anrany as i takos. Perhapateently his dos Bain termes humai and besie destru lattys. Hindi Berner kunsa and besie be he door Bain wes old and solw and he never makin 4. Na one bail the Gyapa bear.

There being no known next of kin. Hierall Brenners workliv possessors were given own to the rearrogeneral of the spectreer backing and eventually found their way to a sidewolk sele concluded by a small, dark side explo woman.

On a birfle, diculiess day in December very close to the Ornstein holding baggen hulfers hold the opportunity to pick up and owned and the opportunity to pick up and optical days to the opportunity to the cursely to theroughly seamed the darky amend these. The old woman touched is londly before handing if over Cirty the most select of pastmess booked needs to see the nagged line of small bias numbers terhmadil an optimal bias numbers terhood along one needs sticked seam

#### THE LEGLESS A

#### By Patricia Higherrath

Horidal huilitial valuado taut e the eyes maker with here in his own eyes for was monty foubled sometimes dispessed Other prepies such as he with Battano West wormed about him bloguade they couldn't urdentano' where was wong What bothmed him has to do eet compositireas. Thuman said b he wilk Futher has that if was official the Thuman to go His skeep had become wrater, as Thuman agreed that he should see account

Added instead in tableoid teest and our is not bourd once and the way of an ad bourd once and the way of any of the second second second second algorithm of the second second second second algorithm of the second second second second algorithm of the second second second second many replacements are projected as any other file function of the second second second many replacements are apprecised and do presed by which is called thread, or as second second second second second the intervention of the second the intervention of the second secon



being all obtained is the considered thread is all obtained is the considered security of the security of all of the security dash of its end of parts come tokened by orderingene to be of the possible and the security of the security of the security that will be security of the security of the parts and the security of the security of parts and the security of the security of the security of the security of the security the security of the security the security of the sec stage was benead the renged time security of the security of the

"And what womes you so much about this? insked the psychiatral Dr Muray.

Thurman took a low seconds before re plying. Twomy because if slike something I shouldn't lenow like a secret about myself Lwish I didin know this. Thurman sad this in a dibloentery light lone.

But than —Dr. Marris, a man of about saty of slow and thought a man secred to be weighing his words now — what's so depressing about your vision, or this image of the \$7"

The set of the set of

"Tollike to be not as obsessed with this " Thurman said lensity

Ti you navi y ward that i said Dr. Murray looking up with a theredy smale. 'You'll have it. What's stapping you? This may be a temporary—image. Like a returning deem foure had it about ox months well a doctor's part had you you'le in good health fou leal well you said. I' sn't even heaten thou en work.

True and Thurman had said that

Thy teleng a lighter atiliade is ad Dr Murray. That the periloular image a not dono to herm you—ust because it's you Permethoe, youre doing well in every department of your life!" Pichard Thurman sitting in a chair

Pichard Thuman string in a charshifted he feet all the He heads to sad then the legites: A was going to harm him merely that if seemed ownows. 'The trangular adapt.' Rumae began again, as the time was running out, 'sjust a ymbol. I reaker, a shape 1 thirk of now and then What thoubles mis is amuch more frequent awareness of my constanti----- or self.'

"But aren't we all aware of our personsides-onetty much?"

Pretry survey? Thurnan meant that he felt aware of his own soul but drift ware to use the wetcasof backware is aurufaid ware liggues unrealistic. "Nex." Thurman conposided The psychiatrat and his wetchin had collapsed like a balloon for Thurman, and he was bored and discoursiged all the end of the reason.

Turners selected the aution to the domain the which is got domain. The domain the which is got domain the domain the selected selected and the service the selected selected and the service the selected selected and the service the selected selected and the selected the selected selected and the selected the selected selected and the selected terms and the and terms and terms and terms and the selected terms and terms and terms and terms and the selected terms and terms and terms and terms and terms and the selected terms and ter

Her frown chd go sway "I think maybe you have dear"

The bioweng disen if some agent. When throating approximation is required to see all other and the second second second second second throating the second s

Nothing Trummenticupititahierself Na difference Howain trying to make himself spoced. On the contains, be waie in see of what he was expensioning and fielt humble Thurmentified to relax, to sleep again the contained of the second second second second to contain the second second second second second to contain the second seco but the black emptiness served and host because previous previous and and there is an other part black team and there is an other part black team black and an another part black team black team of the server and the server and the server and server and the server and se

Thuman got ganty out of bod decade and in about the minutes was out of the house the water bod downtown the water here new hold himsel, of her boughts which where holg in their house got an hear so criterpaid and powerises—end ingiterend Now the cost of the sams upgates saps look around and see a vareity of mages ofter pargia wrides budding, care Bit

The following dawn, if came again When Thuman opened his eyes it was dark. He knew without looking at the clock it was just after five Maybe this time, he could handle it, keep cool 2

he was not line and he casked that I be could neve be the Arran flink he sing fue office and got the young likew value (G, who was reasons or time of the while casked of the shift of the shift of the value of the shift has the instrument many while and that has had he instrument asymptotation of the shift has the instrument while and the Dorash to length on the article shift has the instrument asymptotic shift of the shift has the instrument while and the Dorash to length on the instrument of the shift has the instrument instrument of the shift has the instrument instrument of the shift has the instrument instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of the shift has the shift has the shift has the instrument of thas the shift has the shift has the instrument of

"Or set 1 thy cents-if you can

Truman stood up and pulled he water from the medioposited of the summer poket. He had at least a hunched in ocen and stated to take t allow from realized there might be snother mequal need and pulled out half the bank notice. These this taken their fill he water buckt water

These was another human in need, an obvoorsty poor woman sitting on a bench with a babe in arms, a shopping big at her feat. She looked up as he approached

"Here For you." Thurman sed with an

awward smie and thrus the rost of his paper money into the womatts hand. She thanked him in Spanish Thurman feit, slightly happer as he waked away from her and the child as if he had made contact with the human rose.

The area days one considerated theory but an elever heading operation of a part of the sector heading operation of the sector of the constraints of the sector of the sector of the sector of the sector of the local sector of the local sector local sec

Therman jampad again not melong a clean leap, because one lost source is one hang elles ameans but than he was in the clean failing. The repart of hitry for water knowledbill and but south was the speed of hangs. He was aware to an initiant of deliberably-initiality water—after all that was har initiation—and from to served that the mission projektions A publich han down theore incompanying him Toolwar

#### HEAL

#### By Pat Cadican

"IN THE NAME OF JESUS" the Reverend Jesse Rapture screamed and talopted his open paim down on the woman's tore head. The croad in the test roamd as the scasmed in the whethat

Papture began running both hands over the women's pathetic twitted body. God Jasus-Jasus-oh-Christ, help me, help me rebuke this vie sokness, Jesus Jesus 1 carrit our CAST IT OUT?

The uniformed nurse who had come to the platform with the woman turned away, downally repeated as he estimation that the claved fingers, the arms, the shoulders, working his way down the rest of her body. Jacan keep-Jacan-GDD-LORD-CHIRST AUMGHTYT: he linstred, and stopped backto the other end of the platform.

"Now daughter I KNOW you can WALK without THAT CHAIR!"

The woman looked at her hands incrediulously. "Praise Jesus?"

The crowd took it up as a chant. 'Praise Josus! Phase Josus!'

1 COMMAND you to GET UP and WALK WITHOUT THAT CHAIR!

"Prace Jesus and walk without that char" the crowd roared over and over again until it seemed as though the combined there of their wreas side the wreater out of the wheelchar and then sant har hobbling across the pixtform to collepse sobbing in Reptire's arms

Counting the take back at the model ways Reptantils (source) part, but as usual a quarter broke cut between Kirkhy and Sylvas as to who should play the cropple at their next go, Kirky was the better constructions there was no clouble about their but Sylvas kokked the part, thin as a sitcle no matter low much the ate.

Bright he was loo teed to go through any of her agan and he deached he acsidant Marait to get herm could his sight "Buy them something to eal Calina sheet something". He knee Marait adant really like her idea of learning him to could her take alone, but Marin could king it. They were all expendible, and here knew it.

Beverand Rupture<sup>2</sup>. The woman strending outdoe was tail and wail built expositive in the places frot counted. Plant in the facts. Takes wain that how you would facts. Takes in the tent tonglic, and it also you the boars taxeting all over to every tent revual i could find, and new lense you'n the main fire been locking for "

Tremember you," he and "What is it that you need my spintual help with?"

"Are you alone?"

"I was part making my devolutions to Jasus, yes." He glanced at the bed nervoluty Med have to get the worked up to she wouldn't here the come clinik when he look the overlet of 10 mmg/bes the detelook the four Plenty of them did We hubbend have need of your operation.

My fusiblend has need of your powers A croel warning bell went off in Rep tunes mind Husbands could be problems. The other I'm and the went has need

"But I have great taith As well as two hundred dollars."

That is great faith." Rapture seed, theking of how the observe would never have to know. But we will have to pitity an similarity prover logether....?

"To do anything. Her breefing quickered with desparation and Repture realabid frait in spite of her composare, she was having a herd time contemposare.

"I clon I know what Jesus may ask-

Wherever he wants he can have Just wal my hisband

"if your faith is creat, it will be done?"

TR get tern. Has in the buck." She canad cut. Replice humed to move the coverient from the bad to the small round table noathe window.

"Revenend!" She was standing in the doorway again with a wheelchar in front of her. My husband Jim Healthm."

Repairs never heard her The plasticwrapped thing in the wheelchar was past s4 Orial heating by-well, there was no telling Warks, higher even months Bitchad down something to the body headed it with something to take the destrosation softwar all their bolids hale user he in hit yes books was all their bolids hale user he plates that Ruo turs instance to he hears were gastbage and depotycers.

It was its accoders, the woman said 1 dich mean to shock liem Just hay particuue whome west with "She located the door shut behind her and roled the char into the room near the located tables? Just here hit "this upon I have to work whou her."

"Of: Josus-" he more d backing away from them

Yes Jasus Go on He was a son of abitchel, no-good lyef temost, but I know you'l healthen of that too. She kneet down net to the wheekcher

God-Jesus-Jesus dt-Otrist" Repture yelled, and the woman repeated it, word for word. Lifting har arms to heaven

The woman was amazingly strong, far stronger than he was in his hystene. She actually managed to drag him, struggling and twisting, to the corpse The cooked head stared at him ?

The Yes? Into said to Register Tray, mark (7). Into 'Rear enhanced to copies pricing a high head loom Register 'Unit, I know you'n exe lision of A and we'l make a new sain. I trayper you for shaa you do with field built. This copies head, probuiling from the platic wapping, stopped booksharij to con adv bookstry the statu booksharij to ne adv bookstry the statu booksharij to ne adv bookstry the statu the factor for the institute "Notoor Mooco" six headwat 'Gre ten

Cut, get him cut! The worker gat up and min to him, seg

Interviolitian gas up and ran to him, salar ing his arms. "Lay your hands on him now make him reef."

"Ch Jesus help me HELP ME, no DON'T? he screated The woman we amazingly sharps for stronger than he was in his hystema. She managed to drag him strugging and twiting, over to the conset the cooled head attend at him well-exiting

"Say it now" She gave him a mighty showe, and he landed on the dead main with a scream fielding the not under the plastic squash at the contact. "Say likenew fou can walk without bast char." Say of

Repture scramblod onto the bed woing despensively at himself. "Get him out of here." Jesus Aelp. God police. SDMEBODY

The woman starod hard at him as he pushed himself against the wall babbling

Hig your hends on hers'

Youre goodarreinght I minof 'Rapture panied hoarsely. "I'm pot youthing that thing Now you get out get out GET-OUT"

The womans eyes narrowed "You mean you carit heal?"

No no I can'theal I can't I can't-

She reached undar the plants and came up with a gun. A bit of samathing rotten was stuck to the berry!

"No well what are you doing? Raphure screamed loudly

"No son-dela tachin', no good--- She dimbad onto the biad and came at him Dave all over the state within in the back of the tuck I came techturded miles hom the latel over her handhed miles have din and thumbed back the hasmer " Another tucked law.

#### THE OVERCOAT

By Michael Swarausck

Where were located here came to to starsummary and an end sequence of the star betrace they were having a write-tog set times the torp outdo Sequences and the limits the torp outdo Sequences and the bogst here years ago at K mart were roprograph of therears. He noted an even cost if her was anging the costs down the outdo the was anging the costs down the outdo the was anging the costs down the outdo the stars in the down outdown on well and the torp is the down of the stardard antibum of martinese through out the stars of the stars down of the rough out the distribution of martinese through out the started antibution of martinese through out the Alternamy.

He caught his breach it was in mint condition-every D mg and opeiale insict the black ward-builteresorth iner unsage worth at least five hundred dolars in any writige clothing store in been. And serve slict had proved it sitter dolars?

Hintos territórias he reached out and actualysucherhele obti i sonalisci farrity of motholais i: musi have been in somebady and the relocadas. A havasced semoder of youngal more adventatos days, locked navyan adventatos days, after discuse. Then a final natura attack information adventation adventation adventation adventation adventation adventation in adventation adventation adventation i spatibility available ha locar nut Daste etal, he local Sahvan

He felt the sursity of this flow through his fingeneos as he folded back the color There was a whete rectancie of clich.

PROLLAENTSOTTON

Weed howned His namambered hat Papels were a tray relead south of Terms pein Pergo. Held read about it in an old Alttonia Geographic Hopkins had sent some acthaeologisatis these registrations as ring of Deline to every more.



"It's not true that I have glorified madness or idealized schizophrenia. Most people who are really crazy and miserable are not good company Nobody who's good company is ever put away People like to have them around "

# INTERVIEW



all Street hits a catastrophic air pocket, and the modadio underlight the street restorately of the yupper are Barbra Strosend is a smash in the move Mox, betting to prove shale same New York City ar yert, fore up \$100 bils public is taken in Four city concinativista testify that she is psychotic, a paranoid schizo address to a Manhadain

phrenic and supplat But sho lacidity and integht, and the losophet, and poel-seem

othor' says B D Lang in an

PHOTOGRAPHS BY BRIAN R. WOLFF.



Over the years people have laid a whole lot of stuff on me about being a communist, an anarohst, an acidhead, and even an ambulatory schuzophrenic. The term maverick would be the vory least of them ? adversors of Audit an accipations and accimate and accimate accimate accimate particular and accimate accimate accimate particular accimate accimate accimate accimate particular accimate accim

In two box sates of the Sates, The Low series 30 and The Politics of Superance, large chainings the papetimer profession too should be beach to dag, sisctoo should be beach to dag, sisctoo should be beach to dag, sisctanti ware sates in the sates of were gates in thermood by papets relationships, exposed with we tamines the even happened that, banchonaly school parking might be auth-school theost by loads to mappen box, and haut, the simular box apprend bits, and house the loads to be apprend to be apprend to the source box appendes sectors.

Langel electrom: horsevense, and spripatry of himmi steres of consolution resolution handwither Spri Repperents and her structured a large following on Antonian campaies. But her popularly and what chicks dended as his electron is solid and an electronic sectors and his collegaues, who save here as lett on it power hip. Fee, however, cleary Langta priver hip. Fee, however, cleary Langta

By the own account, it is character was memored by a instruction, positional and the second second

At the University of Clasgow Laing was disputed by the way the leading staff distanced themselves from patients. The analonix department for materias used time of Nax experiments in which Jewish presents were overablased with X mpt as leaching materials. He explored to ham add he official of hyperfairm and the postnormal which he came to believe anatod hereide in allowance to send be add heread before the sender to be add the add heread because one mpt has torque location because one mpt has torque locations of by whisking he lectured the polyteports on the defects of majorie

Alter opicialization tailing took up netroingen; poing the Battah Amya payhate usill not here a Guagow monit has between a poych-tailing and a painer her matcake the potent with the set loss (dogs not about Mark Schadyhause, he rew, matcake her potent with set loss (dogs not about Mark Schadyhause, he rew, matcake her potent with backed toor is short Mark Schadyhause, he rew, matcake her potent with backed toor hereiseable networks in backed toor hereiseable networks and the spread profile to indeemaka and the process operator backed watcake and the process

Larg for larged term the Pickogolis A.g. decrements of the pickogolis A.g. decrements of the pickogolis A.g. monthly and ad a for pickogolis and motably and ad a for pickogolis and pickogolis and advances of the pickogolis and pickogolis and pickogolis and the pickogolis and pickogolis and pickogolis and pickogolis and the cancel bight diversity and pickogolis and the discretized pickogolis and the discretized pickogolis and and with the ward pickogolis and and ward the ward pickogolis and and the pickogolis a

Lang set up a practic practice in Lonon and write server three books including the autobiographical Wadhm, Macness and rifely potential working the mass and rifely potential to be a set but of their server and a set of the protact of their server and institutes with don't the velocity and institutes with Maguarta, has the well include the term child (Hestimitiate) and with wernightable child (Hestimitiate) and with wernightable child (Hestimitiate) and with wernightable child (Hestimitiates) and set of the term

bit CBORN stream company) While Lang puscific privacy of things under the spolling the sectors utsity pairs and it. A head pair backs are summarized as the most Area static this a pairs is known as a lightmany have consisted that the sist actions. Thinkin an acceled in the sist actions of the may be due to init signal backs. Similarly protocol and acceled in the sist actions of the may be due to init signal backs. The protocol prime is an acceleration on the terms of all protocol prime is an acceleration on the terms of all protocol prime is an acceleration.

long enough to make meny in the audicastingly long time he took to pender a rehe is wort to express himself, as if he were scoke -- Arthony Liversidge

Qnmi, How does the case of Joyon Report sidewalk and expect to get away with it. A prepared to map or attack. There has been disturbed people-people not having the

He is capable of failing signifiatible podium opens without bothermo others. A number fail by the ways de

What do the oncount, taxpaving, coherenil ordeny, normal householders or proanariment on the West Side of Menhattan It is embanageto to have to welk over ing their arryone in their nohit mind wouldn't The decent thing to do then is to help them even if they don't want it, because nosed as hisring loid their right minds as

their heads or do they choose not to be-Is a possible to look at this without mechpeople are extremely confused and bewidered and helders and disordered and

glad to have a shelter. So let's provide shallon I all s prooutage the private sector to op back to the plan of a Salvanon Army outside in the middle of winter in London

Once is instement of the mentally do Ling The surrent solution is more core. ality with responsibilities for constraint the a state of allars now where there's a scheme control of mental health. The same prob-

Own You believe that the motive for change was economic?

Lang Economics portrols politics, so the pwofal rasue is an economic one. To see what is happening, look at the textbook or manual called DSM-W the Diagnostic and echon (published by the American Prements underse letter briter and alldisorder in DSM-W include any unusual order to heve those fealings

the with the eckors of DSM-W because GSM-3 process trell as a system for frintparty neurance payment all over the world. The Greeks were very unhappy to moor-Laing hands over a copy of GSM-IV and patient and his psychiatric interviewer | That patient's speech is not entirely grammalcel But you use a tage recorder a lot. How given as a paradigm of the depths of Censil You lee! that the palient has given a perfectly good reply to the guastian. Why

Lang Tit be honored to give it myself. The Phreented as a medical ensycret, it is en ortena in this manual are very useful for rule, it is usually violated. If a suggestion is made, the individual is apartst f. If esked fram from an act, the child or adolescent Deer Well, that would certainly dispose of

Overy Sunty these orders are all a matter

Liting Maybe but these are not excep-

chains an invested by the DSM mary of translated into exciteen laticuaces is instep anyone of their owi liberties of hilbere corpus, and to apply involuntary inelectric shocks and noninjurious tortural

undercover operation. It is not brought to publican it is held in other ve

Land The's not the question. The prob is a necessary part. The medical model has fallen every from the minds of many medical people who employ it We're pconfusion and deep unhappiness comp ging other people about it. It is only when fang about I that some sort of procedures on the street corner and keep on standing there Alter a while someone will feel that standing there as a matter of principle or ing indefinitely on a street corner. It's called

# THE REFRESHEST

SURGEON GENERAL'S WARNING: Cigarette Smoke Contains Carbon Menevide

10 mg "ter", 13 mg records as per organizat by FTC method

cataboric. Now, I am not saying that in this, dry, barrig as it is if steeplifie to have poople do this start of thing in public places. It am suggesting, though that it would cause hings for some people it we slowed a bit mote of what ical separates interthy this I am not preaching smarthy I am preach ing law and order.

Oney You are not salving about those people who are descented, hursing themaelves, or beyond reach?

Leng in milling securities to extract sected to the million securities to extra the sectemport of the securities of the mean resonance in which indices subsets go from the securities of the securities of the mean resonance in which indices subsets go from the securities of the securities of the securities the securities of the securities of the securities the securities in the securities of the securities that the securities of the securities of the securities the securities and securities the securities of the securities the securities and securities the securities of the securities and indication securities of the securities of These exercises of a costant point and more than the weak of the costant point and production costant point of the costant point production costant point of the costant point and the costant point of the costant point and the costant point of the costant point point of the costant point and the costant point point of the costant point and the costant point point of the costant point and the costant point point of the costant point and the costant point point of the costant point and the costant point point of the costant point and the costant point point of the costant point and the costant point and the costant point point and and the costant point point and the point point

Categor you don't waw yoursain as a member of the Establishment, do you? Why is those no room for you?

Lang I am too fortnight "Honald we again with you but you etrodicht talk lie this in form of the chicken those oussed the cloth. That's my main otherse. One leading phychiatral in America when I invinghical against the DSM VH set yeer, soci that DSM VH is only a billing list for their phychiatrath. You how not to have an



antry in DSM (Montheversurance company to pay up Hallbonators are supposed to be suppressed) in su days, estimativitan supposedly carried or symptoms suppressed by indextor, which supprivies the mental functions necessary to generate the aberrational which are galed as toleres of desorder and unclearable

All proprior that with may applicate the properties of the second secon

lable to be caught in the system?

Links, Anjerne is table to be in here passed on the chreateneous is desarrill matter whether you are a kingte, passen or queues in corres to be yout three and place to be tablen as , you will be taken out. Dword by contend of binness to kingte and an entry names of vourteers to present them to passed and say they user tablecering tak conversion the passed and and an entry conversion of the your passed and and them as a statement of the same of the conversion that and any they user tablecering tak conversion that you way, a control we use to the pass of the your, and control we use to the pass of the your and the same of them of the week control exercise.

Ormi, it someone who is observes normal corrolaries of halacmeones don't you agree that a psychiatest has to suspect something is exong with htm?

Lang Chi I dani Nene to Uni i was dodocto gli dotto Tatu puoli nel talevasti to evel tango dher people dont teori ao nan tango dher people dont here, ci unol tango dher people dont here, ci unol tango dhera people dont here, ci unol taneri to teori, smell and dos thangs her nere way. The sess invert the case in the herery of humanizy. The ordinary human series was more part of hamas payone bai world was once part of hamas payone bai experienced all the time in the semi-way to expensioned all the time in the semi-way hererseptioned.

Detri Bit how do we alcock whether sommers weak-ormanity-cocketer? Or with ninean help when they don't want if high the help of ta but a collecter? (high the help of ta but a collecter?) detrogatives between others of correct detrogatives between others of correct betwee and concell. In other collecter for it will be proper to polycolar the attract toget in cophronon. They don't have proper appropriate conduct. The laws proper appropriate conduct the attract toget in cophronon. They don't have proper appropriate conduct. Exceeded had a obtain in one of his frag-I someone is in a state of distress and wants me to help them out of their distress.

Onwill is your new book. Live of Love taken from maternal presented by your patients? for taking about love and les and sex whet youread about in books, plays, and novels people and from ones ownitils. In this book Fam guoting literature but mainly bearing it

Orest Was it inspired, then, by betravel in

think I can say anything because it inthat has got to remain on a private shelt But it is difficult to avoid it in the course of Ores What's the theme?

Lang Weil, fake Freudia view of anotably To be outrageously simplifying, he emphasized the conflict between sexual desizebrions and taboes against its manifesta-Ion and fulfilment. Hence repression and vector The discomforts of ovelgation had

I am taking things in a way complementhe relatorship between the impulse to and the absence and failure of truth and wave out playoffs between trustituiness and docardiveness insteacherss and Consider what is going on between peotraval and realousy

One of the most upsetting times for the need to conceal what they want ido t manifests reall in the expensions of being sider the outrage that is feit when a forger is often confused with it. So there is a came going on-you after reality for other peo-

ple. They will take to be what is the case. not allowed to express his thoughts in a - so that they believe what you believe is

So the situation sets up a politically occurate cally as well as presentably and scopic and microscopic level. The contra-1987 and "Dol habitud my card sampers?" is what a lot of people crumble under and lemate of a "noncompensitie," or mon-

Criteria for mental disorder include any experience, magical thinking, claryoyance. presence of a dead raistus ofter three weeks

When you have a local decestion, therein deny your own senses. If you credit your ble sources There's a dynamics a geometry, or in depth calculus of possibility and probability Something can be abap

atked What are you dono wilh that said That's not a woman that's a water She thought she was going to lans She

Lans Well he was really putting if on The

pauple was given to practicing Tibetan

But the wile was completely percend notic spel. The whole population comes One built who is two others a defer as

cape that conflict?

Lang That just reduces fucieng to trivial by so it's get no meaning. You can erase cance to the union of bodies, to internacyso that its meaning is more than use the and you do not abolish it sust like that

note sexuality in the Wastern world for as ring of the that/ and Homer and Friouch Agememon and Mendiaus and Cabulus class conservation that periods through all Penthouse magazine

Once But within between the search estable while there is palousy and there

Land Littl we build Jecuralem at Ecohave to live in the synapopue of Satan But ing as best one can what there is without fresh ar don't you?

Great Why did you prvs up your clinic in

Lang I was certainly worn-out and burredloaques say "in the hort knel for long surf seed that schizophrenics are samply as ple who are seally orazy and miserable are



#### ARTICLE

Memories leave traces of themselves in the brain, but learning how to find them is one of science's trickiest assignments

### PORTS OF RECALL: THE NEUROLINK

BY BRUCE SCHECHTER

Pictum film: The keynole speaksr, scheduled to deliver an hour-long opening million TV viewors, hes memorae the text of his 25speech a guick read through in letter-perfect fashion. without onne travera to okimos This is the luture of human memory Semeday apon information as guickly and accupitely as the most may be able to remember we thought we'd longotten iong ago indeed researchers Alzheimer's disease and the

where the section is definent and define the section is defined as where the section is and the section is staging the set of where the section is and the section is the section is

accompanies old acce will no

PAINTING BY STANISLAW FERNANDES

people could be like if their brains were fully used," says neurobiologist Norman Weinbarger of the Center for the Neurobiology of Learning and Memory at the University of California st Irvine

In the last 15 years starting solvences have been made in the search lot the ongene have have been on the provided this generation of investigators with the begged cluets to the way memories are started and recovered is a man who has last forever the addet to remember

The man, known only as h M, had suffood severe epiloptic accurses since the age of seven. By the time he was twentyseven years (d). H M is leging electronial storms of the brain had become solutions, and so frequent that locators decided her only hopp of locating a normal file was to submit to a notical and servel-united surceal procedure.

These strowed that H M is secures or primedia in two analysis dears in the branch of the secure and the angudes Williem Sociality to the secure and the anguwho had been issuing H M to many years in the secure of the bit premoving these two in counter to would also remove the case of H M is applead. Exactly in which also in the secure of the secure is more increase pie had obtain liked normal or more increase pie had obtain liked normal or more increase pie had obtain liked normal or more increase. Sequences 1 9553, H M was alreaded normal secure to secure the secure of secure to secure the secure the operation for the secure.

When H M awoke he didn't recoonce

any of the focustive and in track, the mompany of the focustive and in track, the mompsent form more relation to the second to be amplies that matches the door the more than the more relation (stack) and the second unable to form new memories. Once an event inspectification (stack) and event inspectification (stack) and participation data (and any one participation and in the same participation of the participation data (and any one participation and in the production HML, pages and participation data (and any one participation and in the production HML, pages and and there engineering the valuation and any one score. A the moment everything looks and there engineering the valuation and any one score. A the moment everything looks and the second second second second second second and the second second second second second second second and the second sec

Hill is unagar memory loss preved as an importa to seconthem is keypichabiaoges Merkina because in demonstrated the white rules of the processing and antropclear mit by processing of memories. Litdenstranding the previo finger and introduces they to improving our oddly to been and memories. The proof for the years of haid research altered will be enternoos, and her research altered will be enternoos.

To begin with we will be able to their congenial defects Well know how to prowert learning classibilies in children, bolster low I Q to and treat infectious de-



eases that attack the brain," Mishkin theo roses. Abhemen's classise and other trage: disorders of the mind, which currently alfact some 2.5 million Americans, could ease ouncil or pethage even prevented.

Before any of this can happen pays Marken the complex procedure by which a memory is encoded and then stated in the brain must be fully understood. "You can impair a car without hat knowing how it works," the points out.

Dur mitral matilities ju of occurse to more consiste host he folgeed of our or granget in Host with the branch advance granget in Host with the branch advance of the set of the set of the total advance whet the versous instructures dut to the host advance of the set of the host advance of the set of the host advance of the set of the host advance of the set of the se

Methers issocracy is housed in a small lines, building and the complex of buildngs to make up the National Instation of Metal Health (Nati) is behaved. Many land Accentrize in named guardwis isbend outs of the dort. Mathimis research upgets are these morely and cross a nativesed control guard basis isocratory to the the morely and cross in the research withough status late or that to heal of thurname. But here in only about on globooth a thread.

To explore toor the dresse modelysisand a core-memory work. Mitch are used in NMH colleagues put an observed with a built moving resolution for discussion pells. Then, after a movie or loss the moving a strown the same dupid sloger site are depet with new cover a mark food movies if the movies or loss the moving with the last discussion of the set of the same dupid sloger and pell share mark discussions and the last news discussion of the movies of comparison of the same dupid sloger and the impactance of the same dupid comparison of the same dupid sloger that moves discussions of the same dupid comparison of the same dupid sloger to compare the same dupid sloger to the same dupid sloger that the same dupid comparison of the same dupid sloger to the same dupid sloger that the same dupid sloger to write out, and when an end to the same dupid sloger that the same dupid sloger the same dupid sloger that the same dupid sloger that the same dupid sloger that the same dupid sloger the same dupid sloger that the same dupid sloger the same dupid sloger that the same dupid sloger that the sa

But the researchers loand something that passied them. When they removed only the arrygibile or only the hippocampules, the monkey seemed to learn and remember with only slight importment.

You have to take out both to get the devestating loss." Motion explains. Yet it's also clear that each of them alone is term by important. The question is Why are

# How to write a personal letter

#### by Garrison Keillor



books, Happy to Be Hew and Lake Widecon Days, to sell you have

We shy persons need to write a letter new and then, or else we'll I speak as one who lows to seach for the phone, dial the number. and talk. I say, "Big Bopper herewhat's shakeri, bobes?" The relephone is to dwness what Howan is to February it's a way out of the

#### Such a sweet nift

Such a sweet pft-a purce of handmade writing, to an envelope that is not a bill, sitting in our friend's path when she trudges home from a long day spent among words will help repair. They don't She can read them twice and atsin make me soule. search to be known. We want her to We need to write. know that we have fallen in love. that we out our job, that we're will know who we moving to New York, and we want are. They will have to say a few things that might not only a vacue impresget said in casual conversation: non of us as A Nice thank you for schot you've meant to Person, because me. I am very hatty raft now frankly, we don't

and every time I do you. Jines to our dear Aunt Eleanor. We

shine at conversation, we lack the confidence to thrust our faces forward and say. "Hs. I'm Heather Hooten. let me tell you about "Oh really" Pixele for someone else to roll an

So a shy person sits down and dry up and Now away. It's true. And another person-to meet and talk freely on the pass - to be close despite distance. To escape from anotwinity and be our own sweet sches and express the music of

Same thing that moves a people moves us to take ballpoint in hand and write a few



"If you the to more mail to much as I do, how's one shills all Torrestation water of a send a later." I can in the middle of an energy for International Pater but thenefit I'd drop you a line. He to your supretie too dash off a note to a pal. Envelopes, stamps, address book, everything in a drawer so you can write fast when the pen is hot.

A blank where 8" x 11" short can look as his as Montana af the penis not so hot -- try a smaller page our is one that is meant to impress. and write holds. Or use a note card, as we all know from writing wh with a nece of fine art on the front: applications if it's bard work to din if your letter airly good, at least they get the Matuse. Get a penthat makes a sensuous line, per a confortable typewriter, a friendly word processor --- whichever feels



#### ease to the band.

St for a few marates with the meditate on the netson was will mind until you can almost see heror him in the room with you. each other and how your friend looked and what you said and what perhaps was upgad between was and when your friend becomes real write, the caster it gets, and when to wal, stort to write.

#### Tell us what you're doing

Write the solutation --- Door You -and take a deep breach and plurge in. A simple declarative sentence will do, followed by another, and another and another. Tell us what woo're dome and tell it like you were talking to us. Dor't thenk about grammer, don't think about lit'ry style, don't try to write dramat. scalls, not eity us your news. Where did you ex, who did you see, what did they say, what do you think?

If you don't know where to been, start with the present moment: I'm sitting at the latches table on a name Sanader morning Furryand a same and the house a quet Let. wair smole description of the neesent moment lead to something else, let the letter drift senthe along.

#### Take it easy

off a letter to a friend, maybe waite trying too hard to be terrific. A letter is only a report to someone who already likes you for reasons other than your brilliance. Take it cross

Dork worry about form. It's not

a term namer. When you come to

the end of one errorde, just stort a

new management. You care to from a

few lines about the said state of work

to a few thoughts on personal

indebtoduess to the kitchen sink

and whatk in g. The more was

washow a True True Friend to

write to, a compadre, a scul sibling, country road, you just get behind the keyboard and press on the gas.

Don't tear up the page and start Make mistakes and plunge on. Let let it find a way to the page. Wet, ing is a means of discovery, always, write Yours ever or Hugs and Kisses, you'll know something you didn't

#### An object of art

Probably your friend will put your letter away, and it'll be read again a few years from nowand it will improve with age. And forty years from now,

your friend's grandkich will dig it out of the attic and read it, a sweet and precious relic of the ancient Eighties that gives

them a sudden clear alimese of you object of art. Your simple lines about they and will speak to these children and they will feel in their 'n tall to the fight with war mother hearts the humanity of our firmer.

> You car't pick up a phone and call the future and tell them should piece of paper.

Today, the printed word is more vital than ever. Now there is more need than ever for all of us to read better, write better and communicate better. International Paper offers this series in the hope that, even in a small way, we can help,

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INTERNATIONAL (A) PAPER We believe in the power of the printed word.

those promptly if you want to keep your friends. Don't worry about the others, except love letters, of course. When your true love writes Dear Liste of My Life, key of My Heart, O Lovely Pulsanny Core of My Sensate Life, some response is called for. Some of the are tossed off

Skip the guilt

is to set over the suit of not wrg-

ing. You don't "owe" anybody a let-

ter. Letters are a pift. The burrane

unanswered mail makes it harder to pick up a pen and makes for a cheerless letter when you finally do.

feel bad about not unitage, but I've

horn to have etc. Skito this, Few

letters are obligatory, and they are

Themks for the sconderful aft and I

an terrible sorre to hear about

George's death and Yes, whe're unl-

not many more than that. Write-

come to stay with us next month, and

shame you feel when you see

The first step in writing letters



few minutes and Dorr Row

# HIGH PERFORMANCE TASTE.

#### It mg. "bir", 0.8 mg. recome av per orgeness by FIC method.

#### SURGEON GENERAL'S WARNING. Outting Smoking New Greatly Reduces Serious Risks to Your Health.

these two different structures important for socialized with Take the sense of eight, for the same thing/?

have the answer "The functions of these two structures," he says, "are saily quite different, but hey share a common theme." That common theme, he says, is always as

cellson. Herecroses are excited in many, where A social care models on many and areas care them a meetal policitud of last for the policy of the social sectors of the foreign of the social sectors of the policy of the social sectors of the the social sectors of the social sectors of the social sectors of the social sectors of policy of the social sectors of the policy of the social sectors of the policy of the social sectors of the policy of the policy of the policy of the policy of the social sectors of social

If what the arrygota and hppocampus do is bacoming cleaner to accertists, how these structures do it is attil hazy simple memories are believed to be processed and stored at a site in the central contexcorresponding to the serve they are associality with Take the server of bg/t, for methods in the standard standa

Alter entity the wave beginn meret the stress of the stres

By hodring soften of the listenk encarge, White hashing to have been been been deviced that the listics ayatam works correct over other system in this status of a class of invariant the status of the soften and invariant the status of the soften and invariant the soften are non-years dese, major least in Thong the soften and endowed the train The research of the soften and the soften and the soften and endowed the train the soften and the soften and the soften and the soften and endowed the soften and the soften and the soften and endowed the soften and the soften and the soften and the soften and endowed the soften and the soften a

Nerver implicase, which are basically wind derivation places, do not para directly wind der mixing to the next. The nextons are approximately by a training table that one state of this signation gap, it causes and the signation of the signation gap, it causes a basis of the insurfamentation flaces action has an off the security of the signation of the signation of the signation of the results interfacient called a receptor has an officient mixing actions move that and the signation of the signation of the insure that the signation of the next the signation of the signation of the next the n

The work of Merken clearly shows that the limbo system is clearnal to the act of mixing and approxymmetry and the system clear that moments exclusive record elecwhere With a portion of his limits system normaled. HM till remembered much of what happened before the operator.

The search for the memory active is our healthwest mit underknow by Merved psychologial Karl Lastiky. Back in the werters, Lastiky begin experiventing with rata, satisfang for the cercury resonable for the oblity is lasting a simple lask, such as nursing a moze He figured has comevine among the layed resinoes in the brain exact the english Jahr simple jian is his nursing a ratify such sating like ratif to nurs merge lasticy such as the simple simple simple size to the simple size to the simple size size size with a simple size to the size size with size with a size with the size size with size with the s grainy comoved bits of their brains, exation of brain that hald the memory enginery, the ratis would longet their tearing and get load in the maxe. But it differ work out that way Lashiev

But it blott work dut that way, Lasting found that no matter where in a rate brain the removed tasks, the damage to the anmattery anguain, it exempts, want anywhere, it was overwhere

Their in 1949 Daniel C I Hole, a Comten reacotywayob, publielie C III min morpholic called The Cyberneous of the interaction of the Cyberneous of the built to ent time. As the opport, does all more carginations of the cyber of the cyber

Using the second backford Thompson, processing and the second s

viery simple kalmad skil. Hummig a miche required too many officient biain Auebora. A lar simpler skil might make a mark in only one smell asso of the brain and hus be essentio detect. After block 20 years of expanies they with this day. Thompson is mail another of their block 20 years of

Theoretizan's clickows down up to abbed hommany as inflet atbilits, costsmic rabbes hommany as inflet atbilits, costsmic rabbes from our in the topast. It's years the has harmed hommany of rabbits to perform cover on babe angles. They are topast to perform cover the state of the state of the state of all all the state of the state of the state becomes base, brief the state listens to become base, brief the state listens to be bind of a view to be stated to be state to find our view to be stated to be state to find our view to be stated to be state to find our view to be stated to be stated to be state to find our view to be stated to be stated to be stated to find our view to be stated to be stated to be stated to be stated to find our view to be stated to be

He surgically implate a very free elecrodo in the robiotifstrem, in a regionalong a neural erout. The insbit is pisced in a small Plengias box made a sourdepicot booth. Then imy paths of introgen gas are electronic boops are played in one of its aim. The insperimente looks of a pathon of nerve activity hall matches the pathen of the same to behavior. When he finds it.

located somewhere along the neural pathway. After locating the oricut his sends an electric current through the electrodic deatroying the neurons of its lip. Finally the despots the rabit's brain and records the prevare location of the electrode

VANTAGEO

Using this and sample techniques Thompson telepide on Sir years. He reward basis able to the first time enc. every time-from and to set—in the encative of the encyton first encyton ond, the alaxes memory encyton. He decovered that the engine in dia rule blinks portained in a like cubic mitimates of the contained the site cubic mitimates of the contained the the engine in the discovered that the engine in the discovered that the engine in the discovered that the engine in the disc portained in a like cubic mitimates of the contained and the cubic mitimates of the contained and the disc of the term.

Because the costcalium has long been, hown to be accessed with the control of moviment, Thampson thinks that he and the co-workers may have, as the puts it, "stumbed upon the storage and water basines will movemental—Town water go taking to any kand of athete or performance will, from paying the parato to noting abayed, the commental – We thick hat has

learned-skill movements are located within the corebalium? Thompson has uncovered which cells change when a simple motor skill as learned. But he skil closent know exactly thou a ample narve cell changes when a memory forms. Other scientists, most rotable Eric Kandel of Columbia Linversity. and Dener Alexa of the National Institution of Haalt I, Ihang sought to conserve the mysthey To do so. They have opainment field with south and an advertisity and the most south of an advertisity and produce the Orach the enrich sought and the south with Orach the gall. But filancial keys tapong, the Orach to gall south south and the south would begin to agroes the stimulus. Way, dd ins happen?

When the reserve that the servery term of learning when a hadhallow the soft of ran of hange one is hadhallow the soft of ran of hange in this servery table the resolution of the soft of the soft of the the soft of the soft of the soft of the soft the synthesize age to the soft of the soft of

Bary Lytich of the University of Califorria at Irvine has isought to oncover the mechanisms by which synapsiss charge in a sitts brain when learning takes place Much of this work ornitives on a phenomenic called long learn potentiation (UP) is a 324 experiment fitnes inspective. This design is a start of the second start of the

I profit hreles so Ha theorais the alonhous demained course the benaution of new signals between results. The another spectra to effective their The another spectra to the second by the insultance instance of the second by the insultance test second by the insultance test second public (such as the inner electrical public (such as the inner test) the second test applies the the second test the supplies the inner supplies the inner and the second test applies the test



Chair turned on, this special incorpor series to open channels thet allow call carm to flow into the incorrect goal Cail carm appears to rapper an array of bioternical machine incorrect the volume of the synapse and steerghaning the cooreotoris form a memory size, and learning with employies leaves labor

This may be how a single memory is made Researchesimul solve many mere puzzles used there why some memories face immediately while others bet for yeers. And white prefect import allows solve of us to possible lineir deeper memory banks than offers do? Doce we usuave these mysteres leavy Mittkin well be on our way to utilitization the homes indexed.

Reputative everything we do is based on what we even and reach. Markan we plans. The meanstrip could lead to a whole method things we call it magns, new and auxidioxis proto mean even charandia of All we know for sum is that understanding the memory mechanism with high us lead the memory mechanism with high us lead the initiation our individual officences and the defects that can become

And once we another the wavings affective wetter the entropy tend by the Derivation (\*). We may be able to receive the other of the second second second second and the second secon

Even brain transplants to anhance memory and while grees outdo be n our future Bight now Makkin says a form of them transplant is being attempted on we then of Parlamenta cleanes a decoder that models model autotan. The advantation model dependent least board than to mited the second and the second that the second attemption of maximum average second attemptions of maximum average second attemptions of maximum average men allow models memory have some-duc.

Tothers egy Marie I as a to must mournine egy Marie I as a to must be an investigation of the second second to the second second second second to the second second second second the second second second second second the second second second second second address the second second

# ABSOLUT

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IMPORTED

OF IS AND SOLI DEFENSION FOR HER IN

## INTERVIEW

CONTROLUTION NOL 1

Omn: Do you still believe in Kingslay Halltype asylume, where patients are largely freed from control by the staff?

Lang knypky i ki wes sturbe bocurse prostadut by west would be a good Marwing to possible on states of consistent and menu classes, no states what be a possible of the states of consistent and the state of the states of the states of the table of the states of the states of the last is and the state of the states of the last is and the state of the states of the last is and the states of the states of the last is and the states of the states of the last is and the states of the states of the last is and the states of the states of the last is and the states of the states of the last is and the states of the states of the last is and the states of the states of the last is and the states of the

The possibility of setting up small-scale pilotes—pilotes of intrup to popole who are antiby highered—a still very much of an option howed by the could even call them sectaaries like bod sectuares, for history at the popole whose scale program ing at the constraints, like and gram to at the constraints, like the history-incurs call like become embodded in the thinking of most countries, but the varies a velocing history but the varies and the varies a velocing how countries, but the varies a velocing how countries, but the varies a velocing how countries, but

Here travelations along the second and the second a

Grans Your childhood sounds like a rightmare of middle-class represents is the why you leel such empitity for the insane as webmis of oppresent?

Lang: Everyones were of the world is like an organic plant which grows from one's beginnings. My chichcod was guite explicitly static bit comparitively straichtforward i vaver how emocoly boaten blackword bia. I was imported as an infrangement of what was imported as an infrangement of users and the second of the was always called observations in an error to the second provided by Arch the purcharace and the second of the second of the second boaten of the second provided by the second of the second second of the second of the second second second of the second of the second sec

Onsi: So they weren't on all owners? that hisving too with my grandma I should lounge as I am doing now, but I set in an uprohi cher with no side arms, with my back streight and my foot on the cround post the toos in the other direction. Lift a cup with your thumb and first tinger Don't do this or that- or you're in trouble! You have reported an occasion when he thrashed you within an itch of your life? Laing. That was his expression, and it was far from within an inch of my Ke When I was eacht at school the teacher asked for tamed out You dight bring up any boy breaches of discipline. Wy father would be securityd yn some company today as harsh had not at all in those days, especially in that part of Sopliand. He probably cave me a good thrashing seven to each times Geuse Dian't your mother disapprove of Lana She called psychiatry a hitry idea

Lang. She called psychiatry a hitry idea. If I was going informedione ( oould at least become a surgion—something clean not crawling around the gutter of people's filth Why would anyone want to do that?

About ten years and my mether and i were standing brede each other at my lather's funeral. His earlier persons were about to churs along a mechanical track had decided on this occasion I would beconsisted the buildon to start the collin opino of itso the farmer. I felt some waves of emotion in mo and I turned to her and said in a low visce. 'Don't you find this rather moving?" She barted and stat to me Orem, So did your childhood metwale you to pursue the work you have done? Lang Yes, but not particularly because of to streament it just was my life that I got up in writer threw midel mp a cold hath oreased, had an apple harvos, riscs of portidio, wort to school came back, pld homework had bee practiced riann did more homework locked at the tax for hell an hour, and then wint to bed. That was it

# PHENOMENON.

have any-except for musicianal who

awareness was that I really knew very little hospital for a lew months, and then they d maybe what worst on outside the payohaltric setting might be relevant to how peosex of my age until I was seventeen except Exit sort of thing. I was always looking with teen on a Sunday afternoon I would st on ple go to a zoo to look at chimpanzees Own You give a shockero eczant in 7he

grandhither, dumping him in the balh and streat and when he walked away saying

Land: That was a story I was brought up the corner, and he never set foot in our house again, and my tather only went round Own: So II was a pretty lough childhood

Lang Well I never had to take multin agent It was literally the case that my tarber and my mother's bedroom, which used to be from we always called fire cloc lesses Native of them could make out how I came theto the same as my latters

my mother was over eighty. I want sound after and a couple of size of this wore she test altest of white she had ever drunk in

Own: Do you feel nancie network a lot of

Long Oh absolutely Alotof people don't sold sales hundred copies in four ways books Therum 1967 the Politics of Expermana sioricole ne beerfota na teritoria ick would be the least of them. I did

61 am sunnesting if we allowed a bit more of what I call experiential anarchy. I'm not preaching anarchy but law and order?

experiment with all ports of states of comlegal I used LSD as part of my direcal medical practice fully offend

Well, from the Seventaes to about now I thick of when they have to their of a Fartrefer not on me but on B. D. Lann as a hope a ligure a possible quice a sort of Western quru fique: Then when they or you are listening to as sometring like a

A number of people have got up and don't go round about something and approach it this way and that way and stop gle it both feahlers them and they also notes. Quite a few physics are sended into but it is not listed theeding ' then partygraphi paragraph etc. I can do that sort Deex. Do you want propie to understand

Lanz Yes was but the mercease manager

I am experimenting. I want to get \$15 to clon t1 ke people waking out in the moldle. creef I would like scheduc to give the sort bound if I can't I must revert to a more bish-bish-bish-bish-bish ture of delivery One Have you ever been in a mental

Larg. No no no Al these names about mediator, drugs and suffering from a catationic or plaxic choorder of the motor choese or toxic psychoses. I am doing it in terms of very the number . It I had to . Class. Why do you think people get so won-

Lang They to temperate distance They they you will never be able to think again talk ectan, or it's the lunny farm, or you've con you have sed at the beginning of a For get what I was going to say I wouldn't be able to read what I had written. My large she mysell might develop an effeck of asthma in the middle of the stage. A muthof Macicine before about a thousand people. I cave a talk on a theme I had been both I praid senite tell and the porturn was talking very well, better than usual A course I looked down and my body was But I am not expecting any mercy I probis real to the limit or beyond the limit DO



Man's bursts of creation imitate nature's original visions—of sunkt skies and star-filled nights



PHOTOGRAPHS BY DEAN HIMMELREICH





A scheduler of the sche



It want until themselved care across and black and wide plackgraph of a gatewy had the selacity place wanter his work wer to accusal addre versas. The platicgraph accuse could nasily be searn as a solar edges: the stark white corons glowing behand the gibth black mon and on a solat that will never sos. a gate dous engloon blacing into very



The valid representation at whit resentations the normals of a separation in the characteristic of a support of the separation more than 900 years old, has a similar benchelsion faitments in als servining clcuss. At right, the data separation of avoiding association the subnounding association the sub-



COADINATED FROM PROC 2N

siliamenders histor may help scientists further explore it date parts of the beam that recordsmits (poisons that dop the brain from sensing out instructions) affect, hereby lacking to the docerry of how and why the beam transmits heree messages to the body in the frast place.

It isn't just herpetologists who are deliing into these methens people like Dr Michiel Zasioff of the National inservices of Health (NH) combine intellect and exponence with megnation

Zacial del faite d'interne generes a the N-Nel I hai come in nombre generences thou shop bacauto et ni Nateri chered hau shop bacauto et ni Nateri chered have the ni Nateri chered neglect-hau tem Babara und en The Sneglect hau tem Salar Salar the nateri Antonia statement back a consol in the angle shop the shop back angle shop the shop t What was introgening. Zestall had performed a source operation to remove the logis outries for a genetic research proect and although the log was exposed to a conscope of infectious agents in the tark, see wound was halling petitedry. By all accounts the fing should have been seeming with infection.

Attried with enhusiant and cureasy. Zastell spent months trying to find anexplanation Horauch the togen unknown tamity of antibotes that will off backens, lung: and parestes and that mphr work on visuals and carcies. Zastell called these new ambotics magarines. Itism the heterox ward to selver?

This that limit time a chemical celerate system appareds from the immune system has been discovered in verification of the mole case of the system of the system of celesate that supprises immunity he discovered in verification of the system approximation of the supprises in the system approximation of the supervise intervention of a function to the discovery of centrality.

Cursi to neurophysiologymey'be unraveled i thanis in a second species of tragcalinal. Physiobates terminis, which is thought to be one of the most possence. animals increase to the most possence and path one spectment can access enough towns to kill all levet 20 c00 mice less than .006 outroi can kill a 100-posed turren And them is no lacows animite.

Used by the Embera Indians in north-



existin Carbona In handlos i regional de la construcción de referención en terreto en la construcción de referención en la construcción de referención de la construcción de la construc

What makes these bright policin velocity amplitudes, which resemble small iteo frogs to dispective? They served a combination of alkalosis not previously uterrafied, celled batrations and homopatraceolisan The molecular of these passes are so small that they call enter the human body through here folializes

STERg on every kib table in the herpetology department of the American Nuseum of Natural History are femanume housing the drivt live collectors of Phytobetro templify in the United Status

This repeatual grace of togs the term services of the float grace of togs the term glass letterurs. The some years we there local solutions of the term of the solution of the plant letterurs. The some years we there local solution of the term of the solution of the solution of the solution of the solution of the local solution. The solution of the solutions is the local solution of the solutions have to differ matcale solution solutions in the solution of the solutions in the solution of the solutions in the solution of the solutions of the solution of the so

It may appear to be mad scentist shift of todate trachinny speake curin the long run ou so-called simply fonds might just hold the key to un future. Arrestly doctors at the NHI are experimenting with verys imaginizes can be used to long cybb the boost and as Brodin and Mywer continue to desky the achilocid of all the westfs amphisses, other cures may be waiting these units the run finear current DDI

## Some people Build their castles In the Air...

## omni magazine Is their blueprint.

These is an additubutive to the human spatt A supermultimed and point in the host of anne papels that requires and excamption than to be previous. They addit contractions and anne papel and the papel of Magazine CMM exceeder mation on the besits from yorks 7.65 mpder Magazine national average in exceeding perference interpreted at this, and 375 mpder when to come to publication guilary/Austrian hayle to building the fulleweahs in thought our of in coace, And you are previously flowed in the







Even the mighty Pharach can find himself up the creek without a paddle. A measure of his power—what he does about it

BY WILLIAM KOTZWINKLE

And how long well you be staying in our Tomb City, Majesty?" asked the Chief Architect "We must leave tomoron", said Preinch, sucking spaced beer through a stray." A thousand tasks await me" The Phanaenis Chief Preiser thousand elerich, then spacie

from the place at the barquestable. This Magery's tworks snever done, its works are many and protound. This is our Leader our Chief, without defect, subtrate in the intent— The Chief Parsan's solorini incomation obsead as the desc-

The Uniter Halder's Solution incursization obsauct are the denoing price interest the party room and bogon ther Moon Control united on the sound of them only the phase of the right years Photoheaing the sound of them only to only the solution of the state workform soliting in the Coly of Phaseshit Semb.

"We ve made great progress since your last visit, sire " said the Chief Architect, rodding toward the whip sounds

He has given us slaves, charted the Chell Poteer "Thou sands has he arrote and put in cheins. This is our ruler, provided with flames, far reaching of hand, generous, actute vise.

PAINTING BY GLBERT WILLIAMS

it is an accepted laudation. Your Manesty "sed the Chief Praiser putting on a

His charting was diswined out how-Moon Configurations were sported the

What a degualing lose man, said the Chief Architect's wife Till may say so. Your

Oh yes, culta" said Pharaoh "Quite squesting " Pharaoh sat back in his seal. dag using his shoulder and from how perchan He rubbed 4 gingerly, and the Chief Preser. savering the screness, rushed to incorporate it in his literiv.

Master of the compound bow suffering to learn all martial arts in the protection of

The Chief Plaser rose from his seat

spassion whiring inm upward. Attempting he waved his arms outward over Phar Lord of the Solar Bargue

The Charl Praises fell with a fatal passe

yourself " Pharaoh turned to the Chief Ar chierct and said quarty. "He's good for about an hour of solid praces and then he starts grasping at siraws " Pharaph nott am struck again, down the length of £ and across his chest.

No Tam not but jail me, who is that guilet owin there? I do not recognize him from my OWIT FRINKS

white robe whose manyers were perfect

Which man Your Maeselv?"

There he turns lowerd me He weers a

The Chiel Architect cast his gaze where Phanohis Inger pointed "But I see no such

his skin is-hea been burned at the neck Observe Archtect if you have eves in your

Sire The Chief Architect's face lifed with concern. He signaled the Fan Bearana

You don't see the noble lotd approachlew teel from the bancalet tablo a fairt prefe-

Pheraph looked quickly to his dwarf who

What do you see?" shapped the ruler A shadow, answered the dwarf He





Smith Corona proudy introduces the one-and only all in one PWP 5 personal word processor Smply unbid worms. If and a remarkable new way of writine will, which here you

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For new elization on this product, write to dealth Centre Corporation, Bis Locat Avenue, New Crease CT 05645 or Shith Covers (Cavelin Ut), 440 Tepocht Root, Sontorrough, Onario, Cavelo Mill, NA "So "said Ptersoh rang to recove the honored guest

"I must touch you. Your Majesty ' said the guisd

Phanach estanded his hand, and his guest bashery inger bouched his lottle An energies same liel how he tenament, and Phanach fiel iss cold edge cushing the chest. The bongust more diminish his obdies were samounding thim. The hotened guids was leaving through a rear door past the speak-holding qualiti

A second slab of granica fell. Filing the pores of Phereohis body with stone, and the banquist room was no longer visible.

Instead Pharach dmly behad the rise nor of his great tomb and saw his gathered poople and head his faint prayes being sing ... this was our Great King the Perlect Cleansed One who has gone to his horizon...

The Chiel Plaser spoke, and the two lands were filled with crying

The goes up the service of the goest exhalation. Mighty in life, ha is it thusandfeld implify in desh. Descement is placed at his likel. He has captured the honcer. We, his willing somerits go with him, into dashness, with the proper that we may just him in its wayage upon the Solar Barque.

Pharach saw his dwarf being diagged to the tomb. Fifty kitle heils digging in against the sand but the owart was no match for the soliders and they harted him into the cryst.

The Chief Phaser and the Chief Presents whe enterted of their own accord and them a thred dato of sizere come down on Phaadhs soul, settling into piece with a sound that reverberance enclassly, a threasend tharders echoing across the sky

Hallach was enformed

Out of the dark design of the inglestance his parcented a ray of light growing were brighter and more spinned. It discoled this hard organs of the store, turning the store to dark water. The heavings that had sumounded and crushed him became a were base.

He stood upon the shore of a black Nile There was no palace ino hause no felds of weining grain. There was a black Nile and a golden slip. The ship come slowly over the water strange and basattal lights erransted from the huf, sweeping the surface of the black Nile.

Pretech wated on the share as the ship came near and all was in stillness except for the lapping of the black waves. The ship sent forth a white beam of light that occased the walkr and touched the shore at his feet.

He stepped upon it and found it firm enough to hold his sprit body

This ship was described, moving under a mysteriotus and saleri power Phreeish warnfered the decisia, which were made at a finally woven substance, luminous and polising. While stratigring the peralimities, he docovered finals own body were made of the same aubstance—a denoing light of poid with a lange of emerald green

Exercise the capacities calabilities to be out of the second sec

To his suprise arother craft appeared out of the deriverse---a any carice primtive in the extreme.

What was such a vulget vessel doing on the dwire waterway? Phanach walked out or decktorwestgete Learning againstitle rail. He peered out across the water and discovered that it was his owier in the career. funcuusly padding.

Phasach ablempted a greeting and lound trafting mouth was closed tight his straned to open it bull found he could not he waved his arms, trying to attract the dwarfs atter-

The Chef Praiser's chanting was drowned out by the cackling laughter of Pharaoh's dwarl, who ran among the danoing girls, swinging a toy murinty on a string and making level comments \$

ton for the little fallow would be amusing to have onboard

The dwarf saw the signal stopped padding for a moment, and stered at Pharaoh Pharaoh gave another commanding wave

The dwarf answered with an obscare gesture and resumed padding, of down a dark, stort inbutany

Phenetic stood duriblourded at the rail I gave him the finest terrib in the world and he gives me mout. Should we meet again in this dark world, Ill pay the pygny both, or fin hat the All Greeous Cire

Photosh still puzzling about the righttade of sleve, found a light of stars coding to a galey of the base the despended them attracted by the aroma of cooleng stap. Following this more the opened a door and wai attracted to see the Chel Pageer and her wile make at the stove cooling support

"Your Majosty, how wonderful to see you regen?" The Chief Praser leaptup prasers and bowing. "Were honored honored Please be seated: O ruler of redors: O servicined despensor of happings.

Pharach ported to his mouth which he could not open "Ker mouth is closed up. Majesty? But of ocurse of ocurse. See please let me open it for you'l faund the instrument our limit right orbitisat"

The Chief Preser went to the corner of the galley and brought forth a prece of wood straped into a rams head, crowned by a analys. Through allow me are

The Chief Passer placed the stakes test on the los of Phataoh and pred them open along with his teeth.

There you are Highness. The dead shell speak, as the saying goos, only a matter of Inding the right lace

"How came you to be about my solar craft? asked Pharadi, notuniandly for her was grainful to the Chief Preser for that liffe trick of common the meah

"Your ctaft Majesty?" The Chief Praser looked puzzled

Nes,' said Phatach. Tim manaly canous: Chief Phatos: Believe me whan I say I'm happy to have you and your wele onboard my eternal sho.'

"Your Meletry is pixing as always" said the Chell Praser "Your singue is suble swit spoaks in ridding wonders has a brousind currents is never tried......

Chief Phaper, an anomal piecest

Weight these asserts on the monthless Meady-more docume I cannot blood your labeling half includes as cannot obtain the decision of your makering. I can enly say that has humble eath is the stratul property only wells as other as you can see upon the walls as other her hatery of our time on Earth. Majany when we served humbly in your magniott count.

The Chel Patison sciaped bound a tifie and concluded Tin no way could this simple ship be called your Solar Bassue Matery Such a ting is laughable Your salar craft a mester of bringing in a filed with magical galanda, is attended by roundless acclesses

"Now and Nephtrys solvie then, they sing unto the in itry bail hyperis of py. You are the nitry of the golds, Majely and you bails as beyond desception. The Chief Presen tapped his hand against the cuptocard of the goldy. We have here a study vessel a good liftle crist, but a Solar Barque? News Massey news?

Protect information in terms to exercise peckate item of averts, then strong to the wells of the galley where the recorders to where written in glowing active tottes. Incleariting did describe the fee of the Chief Protech and the fee Sort and Fee recordtors on deal, which held acts on line bounding to the both to bryges for project for microbios returnly referred to his own globics said.

Where than he asked hereall quarty in my boat? Did i miss a?

Ha turned to the Chief Preser

Yes of course Chief Plaser as you say your boat indeed. And a fine boat is 1

wanted to extend my blessing to it, wanted to sancely it with my presence in protinule

"I'm deeply touched, Maesty, sed the two golden soup bowls. We have here a

'Happy to, Chief Praster, happy' said

tucked a nepken under his phin. You didn't

'No Marrity Lochit golden spoon There's no trouble with

I was just wondeningtime i sent it on abend

Maxisty there are

has She's still upset in your tomb, and as I worki safter not issen to Maresty, I have not opened her mosth if

heavenly soup was contrusity replet-

One of the features on a spinitual boat. and the Present "I suppose they do it much Actuals,' said Pharaoh nervously, 'T

 You are a man of the people. Majesty It is your oreatness and your glory 1 shall

Pharaoh signaled an end to the discusthe All Gradious One on edge it wouldn't

TOR I MOMENT NO ORONOG NO DRIVE NOTING BETWEEN YOU



the higher levels of government. When he met with the Drane Heruschy hectiset acme-

discerned a light in the distance growing slowly brighter as they approached. The life the celestial radiance of the spintual to Judgment Day in the Hati of Truth

They werch one's heart in the scala? just a more formality for you. As for her ---I practiced my pressing

His wife's mute face grew learlul She

heart-a triv red vase which she hald up to launhed scomfully reached into his own receiv, don't you thick? Well in any case out hearts don't made; Your Majesty for we are mently part of your en-

Yes certainly said Pharmoh To be sure reached port

When he was out of ade his robe His hand 4 "There must be some

inside out held it up to for judgment he watched somewhall dile-headed god mo-toned him down the canoplank DO

## ANTIMATTER



UFO UPDATE



In the later of the Apple start for \$10.

Following the detail of Philode/bite weekstar/bit-World Kaoy In 1938, the degrunted involved widence of apparent measure that the apparent measure that Kailly carminal to have disoverestia in ave. "Inordi with which his caulid disposite which his caulid disposite which his caulid disposite which his caulid disposite the provides pressure in the provides

was dissociating only ho:

ar Under the lab sindoboards Hoy recordedly found a sphere containing paieme gas that enabled the reven drip to shart and slop a series of seamingly anigmatic angree His reputation subexplaining weeching along with the 54 million cased by Reelly Mater Company

But Keely s achierents contend his was simply misunderstood. The engaged in a few innocent, fundistang hoases along his way it was only because Keely. Inmeet tab no complexity understand which he was stong. "Nou have to remembor explains bate france a Colorado Springs computer consultant "Intel John Keety was a proneer who made up his own vocabulary as he were along

Point will be a subsublishes the Journal of Sympatrice Violatory Physos pand 50 teithul followtis in Dates test summer for the First International Keek, Symposium amediaties the material Essentially Keeky consequed the field applied quartum accustors which user put accepting to an derstand style Flord. Quart to amply which generative a simply which generative a simply which generative a filter you accept a simply which will be a simplify and the def filter by manufacturing to muswhich will be a simplify and the the simplify and a simplify and in the right acception and and in the right acception than teasemble replands materially.

Even some of his crisis gree that Kevly was a master machinel whose motoric write the angewening marves of their day. Unfortanately to be set in motion many of his invention's dipended on musical hermonies only Kevly understood What is kevly understood What is keven is that

Keely correct his own apsach Just call me the greatest humbug of the mesoenth cantury he said. Whether he whole the music for his own furneral is still up in the ar





He documpeter an invested in outpeter and by ago expirent he was authorized from what docted to all computer type docted to all computer type docted to all computer type docted and the by water provided outpeter by water operated outpeter by water operated outpeter of docted methods which inhomed methods with the high red or press docked method method here to by the and docen to computer togging and could be downed method togets here to by the and docen to computer togging togging docked method here to by the and docen to computer togging togging docked togging docked togging docked d

<sup>11</sup> For example the boy got 1 could waik up in the night and brink June 10 got to be bottom <sup>11</sup> The got to be bottom <sup>11</sup> The got to be bottom <sup>11</sup> the lost he gottom and the lost he anthogo by of normal human name horse mated frequency prepase and filmal intrahorse-mated line computer commands—to other to complete amplitually.

Charge Broot, a precoding psychologisti and author of the book Technoshess says that computer observe lock and adults often suffer c) this sympletime. Skyle Brod We are asserting a generation of lods growing up who are being access to human reactions. They downlop machine standards to them server and the one feel has the dear not portiond we for their healthy diselepment — Reality diselep-

As for as the least of matricipal rate to reality they are not certian, and as for as they are certain the ob nor refer to reality.

Albert Erreton



#### ALCORN ADDRESS.

The number 7 pools up expediately in outwines at new the piecet from Show Mints & the Seven Noncets to the Seven Noncets of the World This is moter then controdiscret skyle control from the factors skyle control from the book Genesis Seven (Vantege Press) in at the teclage of seven outdaterectors spacetypis the Visited Seven secured 5 c000 years ago

Fains an accountant in Fis sex. Bright claims he parties up with the inhorty marks to information that was provided by a long claims of clause. Societing through medium Geny Shemick in 1979 Octave visioned lives on your Earth The sprif ways for the describe service flywer on the describe service flywer on the describe service.

Integrated Fama bogan researching Quetal's tale. I found that stones of saven mas from the heavons go back thousands of years and as found all over the world.

Too boundary, Hant ayo, In Magaro belowed they cannot have belowed they which wane brief of books manifase that marking a good are set to be the set of the

Farm neets that Quittle's description of the ancient aliens as fail white men who aroun forward white and . beends was also accurate There is a wolcephilid tracking of a tail wherman with a long white beard and flowing robe who clime to Earth taught the people and mixing to the sky

ANTIMATTER

But netocen Witnern Stateing of the University of New Origins in uncontineed that exhibit may have once paid a wait to Earth - Achough as theoretictally possible website aberlasty no archeeological or historical evidences in a



Those why is the number 7 singlevals? No one knows individes Stabing. And there's no way to prove this not simply because people have a propensity for choosing sover as a holy number or a later one —Sheny Baker

"In each of seven houses there are seven most each cat hils seven most each mouse would have ealten seven hekat of grain. How much grain is seved by

--Ahmose the Scobe

## ANTI MATTER

In Reently Resident of Coopers broke the Sea, Captan Nemo played haunt ng music on an organ as his submathe crussed near the colar face But what would an organ sound life if he colers face! could alwy if

Notes to an investor by a local and the answer care to a found in Sen Frances, does waves Organ. The devide does not lock like thush yet a collection of 48 pipes and uses that juit out of San Francisco Bay Buy Mat that Tackes in beauty it makes

To been working with here together the peak of the says anter peak Peak and the resolution of the the resolution of the the second base of the the base of the second base of the second

Much of the managravitation economission George Gonza laz, who gathered headstones centebry monuments and cycloscores on which visitors could sit and watch the water play a maiwatch the water play a maiwatch the water play a mai-

How does the wave bags work? According to Richards the movement of water in and out of the pipes makes the air columns inside them resonable "It's like an echo chamble" the saws

The like columns resonate at different finauxinalisis depending upon the length na mass



b) the puer yatch we we according to wave action and too lovel. The best twito letter is on a colinn day bays Richards. The actors here soon much surbulence for cont Head anything with the volves chashing and he wood howing.

When former says have also Chronicle music onto Houwel Tirout reversed the organistunes he said hery resembled gasps or clastic settles.

Such a furny sporty www. jesty hoky poky lad is the

CELEVISIO MARKER

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Here submarks by here the electronic sector of net the sector sector of net the sector of the sector of the sector of net the net the net the sector of net the net th

whether a picture hels offer ring to a publication is legatmate or fake? We look at whom we are dealing with the antisease. Il accretorie has a history of taking pichas at history of taking pichases at history of taking pictheriting and making hoax fills then you can belithis is another one

designation (Source 3) and grant package and comparing from which cather practice of them which cather practice of the source of the source of the presence of the source of the presence of the source of the sourc

Not everyone who has seen Badgards sphcate Sinks they are automatic however Here submitted a photo to outpublications that he took in the Patoria Normies: His said Enhowed a tarniy of Big Social noise Kinn Paterer soci to di The Seleptical Keywah It was clean than the wateres to see sharows and get spatia in fucery back and whop photos and sign Batery Raiges

They are getting bolder They an latting us get a batter look at them then ever before and ( think it is because they want us to know they even

> Donald Keyhoe author of Aligns trong Spane

## PARADISE

well-being and wrhout it private philanfropy cannot axial Ibalieso we must come as crose as possible to encourage the private sector and to leasen the role of government. To reduce takes is fully consistent with such a program.

In my ideal socially certain values would be had obeyy. The interdependence of markens—es John Donne said. No man is an sland entre unto deal. "The worth of the Individual and the worth of the community are one and the same. One is not wisble which, the other

I would certainly tope to see an overgrowing worker of highly accessible pictures are many nonperfil instautions in our socisty. I also would want to see a new emphase pictures are made and a would be control in these installations. And I would control in these installations, And I would control in these installations, And I would control in these installations, and involutions that by your have another to roles that by your have another notes that by your have another in the intervelop competition.

It is very important, participa above all, that even in an ickel world gwing leman is opertaineds, white I and dynamic action Diving, when it has real exercing and is thuly tun, is bargely a quasition of spint, and as the liscet adapt goes; thet when can be kamed is not worth teaching.



Harvey Furster, acloc, playwright All rght l'Itelyou. Fycu wort my roal Ucopan work, ifs to have an apartment there is

completely filed with a big drain in the carrier of the norm All your arthwork is encoded in glasse, and your thinktoe is covered implisher. Just take out a hose, and hose it cleves where how and then it guess hors he Jesesh mother's partiest work hose exerviting cleves

Actually even a short time app, if I have heady thort Urons, I would have based for everything. Now in ny Liopian I would like just a tev roll, excluding problems advid the just you increa. When propine are you shouldn't ask for heaven-bud just for a lifet poor of haven—appacing when racrem, resorm, and hemophobia are coming basis in such a more big leaken I of We to see things stop sticring backward and start moving therein gam.

When it comes to my Ubapia 1d He to see a normal world. Theres always pain, and hots all right. Bun not the mapping wouldn't have lost all the people live load in the last couple of years in a Ulopean world. The on my heid address book in about a year because I could' stand seeing all the crossed-can names

If you cut the gay people out of the eccesty as some would like society would fail apert. We are the woker arts in a more Utopian society we would get rid of our present models and work together—male and terrete, gay and straght—and share responsibility for children.

Therepitchia did not exist, gay people would close down every orphanage in their outring like the unwared chicker. Their scares people so much "For same boarne resion people finik do much betar to keep physically and serial sy handcapped chil, dree in cappe than allow them the lowe of a clay capability of a pix worth the lowe of

Wy utoperwood/bio native/ i world potest the environment i dont beleve in God. Tealweat in nature—clast to dout Pregen mmy Uoper world be naturel—the white which mitigate it world intere be a preceding the thing a product in single teal to be of nature than a product insolation to be of the the greek you also of a fait to more. I two on top of the intrountain, in a hermitike way, and like it

These through to be in the country I. Contrast, though the week resonance my Use Country to the theorem of the temporation of the Country the temporations in the country of the country of the week in the type of the temporate of the country of the temporation of the country of the temporation of the temporation of the week of the temporation of the temporation of the week of the temporation of the week of the temporation of temporation of the temporation of the temporation of temporation of temporation of the temporation of temporation of the temporation of temp

To arrian a cherward movement is the utmost to which a Utopia can applie, since Utopias evident begin to be written in any society until after its members reve loat the expectation and ambition of making latting promain.

-Amold J. Rynbee, A Study of History



Roy Rogens, actor The only Utopia Iva over seen is Shargola I saw that in a perture once Buil fu set my personal Utopia in

The parks where it loss is the table international international transformation and the second transformation and transform

In Utope you don't need all the money

In this world. It's part a necessary evil, and you don't have to have all of it. In my Usages with world per more attention to the spinhall doit of our lives. Perstanally, it believe in Christantly People believe differing but what's important is the very you think Christantly kence me on a more level keet.

Partiles would be closer than they are today to many things are termining the ternet of the today to the terministic terministic terministic to low their toda and spend time with them and raise thereing to it may ideal plan, many and data see the ones who would be there when the chicken needed them

I well receiver could be aware of how impatiant a presents delighted is we remember events, and like have is notifiento onus. And some of the foundation memoritis we have all the pets we have on weary other laws at life pets we have eventy other laws at life pets a some landshare and the coddoors. To like the same and manyle event a motion. All elemistion Upper, the child would not be hores, and the fifte code valid follow behind.



Grace Slick, singer, songwriter When I saw your interview request I said. "Oh, great! They want to hnow elsoys Utons TI

solve that "In the Skilles with wiskalow drug were exervised, with the Knowenand solve everything. When yours avery up linking interval togets to be going on Today if create lapper interval to protools concerteng that actually right to accompliated an idle with every alreadtion of the solution of the solution of the accompliated an idle with every alreadtion of the solution of the solution of the accompliated and spending money going to accompliate and spending money going to acch others these

In the Victor we will operate considered on provide the weat of particle of the geent provider that have been as the toption of the top of the top of the topphoneness of the top of the top of the phoneness of the top of the top of the phoneness of the top of top of the top of top

As it child in my clapper you would learn your own hang your and applicability guage. But I am very strached to the use of diversity. Repetite individuality will not be taken avery in the Sinkite avery Sole dividual and an atomic of them frequency indices are unity. It can by alter tables the heavy-meth people backdown on bankwe back or way an oggant and in inclusion about 1 indire than swape. He to point i

True sprituality rather than religion, would be the way to go in my Uspra Desolar all decompetences and truch and

SS OWN

practice a more general spetuality. Live out the sample creed at the core of most religions. "Do unto others as you would have them do unto you."

In addition, in my Ulppia each poson would have a task, a single task. We are bornbarded with so much information to day hist neet people being 'histhead with it' Installa of people being 'histhead by so many fining that have to be done they will select one areas that is close to their hearts or their addition and an low the

Pandas just knock me out, just np me spert 1 wrete to the World Wildle Fund and official to lick stamps, address envelopes, do commensais Well. I haven heard anything Mayte some zoologist will read this and say "Yeah, we can use her to mop the Coro at the panda house"

There would of course be lots of music in my Ubopa 4 would be a personal checom-infythm and blues, classical, storal electric syntheszers 1 krow wto: appeals to me Spanish music—closecal accustoal guits, Tamonoo—siawy sub Inecksi me right out it put is filterine. Is the pandas. Music, think God, moves us towerd Ubopa

"To the classical Utgaste freedom was relalively trivial. Obsety they considered wifait and happiness an entirely separable from Iberty and isc being slogether more incontant threas."

-H G Wels, A Modern Utopsa



Steve Wozmak, charmen of the board of CL 9, inventor Apple Computer. The first thing foldo in my Utopia is change the wild works Today

Ingles about how the world works. Today in sharpy lock for cause and others. We would be watch to believe that if we do the, this we happen The word desception works in the Fright lang usgo is significant. As controlled experiments and the works. But the works we detect it if might be a try alwest so they the it opprove context, that inly which so they the it opprove context, that inly which we they have a mission model.

How our bodies work how our minds work—that sort of knowledge correst from relation and observation, analysis and dopenetros: exploration and imagination in my Ucpts chicken will be taxed to spory chick judgment to what they too and are tool, and they the taxed how yoke ther own macmators, prosivity and intelligence

Indirectal intercepts out crusting with loss valued and hape lakes in the depart by encouraging people to find out what is inside the closed does to ask questions. "How can light from here to have to prove depart seem possible? Can I make connections that aren't obvios?" In Upper you will be allowed to pursue the ideas that iningue you, to try and make them work. Noe will be allowed to pursue the ideas that iningue you, to try and make them work. Noe will be allowed to pursue the ideas that iningue you, to try and make them work. Noe will be allowed to pursue the ideas that in-

In my Utopia adulta will learn that chidrenis dreams and fantasies may become mi cowi real. I want the minaculousness of the mind to be reversed.

In the proof of the second sec

To give anything to have a chance to talk with basics Newton. And with Bob Dytan, too as long as Imweshing. Not necessarily logether, though they mght get along the

In my Ulosis people weakf more of less gleve pon policies. Event here extrapated to stee positions, make judgments, lind fault. We will be christed and selectors Problems will be christed and selectors parmed. The process will be more obserlive, almast methodeat, a computervood process. Well here guaderes constitutors, leve, tess biss and no weght atlichad to parties.

I lecidi dahraay war humo to paya a largor pati ni the general scheme of hings-\_wit a lot more hun, humo smise with everyday like. It mix spectrationasare should also charge of the Laure, who the pacta of heir psychiatry to emplease importante, hill people decide what aspacts of heir psychiatry to emplease introduceus delenses within us. If is the constations of understanding consistent

If we could have deviced an arrangement for providing energiesary with music in their homes, perfect in quality unknown in quality, surfed to every mood — we should have considered the liver of human fectory already attance.

-Edward Belany, from Looking Backward Two Thousand to Eighteen Eighty-Seven, an 1959 Utopian noval



Line Wertmalier, film director it is very difficult to ensigne a Utopian society—e society that truly subbarie a far and liber-

drag way of lefter the original future coming any of lefter the original future future of peakes, purify, the taxes of instance step peakes, purify, the taxes of instance step based ways the three control to a Lib pain apactly without three control to a Lib pain apactly without three taxes to be peaked on the three control to a Lib pain apactly without three taxes of the peaker of the taxes and the taxes and the taxes of the taxes of the taxes and the taxes of the taxes of the base of the taxes of the taxes of the base of the taxes of the taxes of the base of the taxes of the taxes of the base of the taxes of the taxes of the base of the taxes of the taxes of the base of the taxes of the taxes of the base of the taxes of the base of the tax of the taxes of the taxes of the taxes of the base of the tax of the taxes of the taxes of the taxes of the taxes of the tax of the tax of the taxes of the taxes of the taxes of the tax of tax of tax of the tax of the tax of the taxes of the taxes of the tax of tax of tax of the tax of the taxes of the tax of the taxes of the tax of tax of

The form of government for my Utopia would be a Graek democracy I would deother many ecolosis invanient to deperment y costance, dont even asis trav many i vacid amare the lose and anothy lot do do not firm (here) depart large notes in my Vicpat, Love is harded metal assarted—another observed to my Vicpat, Love is harded assert in the reflecting between men and women would be low. All research (unspect) for the development of every for assert in the reflecting contrast of every parsised to the development of every to specify in the linear commany.

I world cirect and distribute so many lines in my bloss I part hink of al loss hirty films for wart to check Utppan some a wormstrif vaco or even a whole—come from billind a came which have a part form billind a came which have a part form billind a came which have a part formed partial in a nature of the have a part of the man solution of the alternative and the solution of the alternative and the doesnee flower).

In Dispat located like to low in the layer the Thirtes when I was bern in space of the destruction caused by Faccion, latiy was all the baseful taky of the "Gend four "the goal would be to salvage the mage of all that was splendorous and to enablace the clienage of the peat

I am by nature a practical joker and I would like for my Utopia to have something of a spirit of two, laughtur lightheamedress and the unexpected—to enjoy every moment of marvel



Thomas Szasz, proressor of psychiatry at the State University of New York Health Scence Center 1 erw sight Utype ser in soc-

ety in which people struggle casasiasity to achieve and preserve autonomy, selforspact and inspect for others. Scopil or der would be manifatived by maximizing individual self-control and mainteing entimal coarsistent My periode Utopie howover is not a place of particition because hasten beinse aim be non-ensement.

Then is no public intrusion and no one is 'mertaily' iil in my Utopia. For a long time I have mentaned that there is no such thing an mertal aness. Its a metaphor People use the some to refer to behavior they delike or disagreeve of

In my Ucpai i an fine to choose what I believe read ingest, inhale and injecting my body involutory psychiatro admisscrea and clianess in panal servicely would be abolished. Criminal sanctions would conset of reshutive fines and labor if a person were incardeniated that in the would work for the community.

I see human life even in my Ulopia as competitive basid byhuman conflict withyot to disapportmort, baseas, and disability Not evenyone would be or could be a withing. But the loades mg/rt, disponding on their behavior tall have a decent life

Nor would everyone be physically healthy but the ack would receive treat mint and be here like waryces else to medicate theratolece as they see it. Everyone would have the right to decate when and heve he works to de that is, whether he warts to de as a result of disnear unaccessful testment of docetes. bodly datarenies daets aging or his own docetors — row celled 'succest' or 'edidatarenied' death'.

Hens Kung, Romen Catholic thoologue Form the resolution large lines weiling for God or weiling for Godd and have groun have been been been and the ground and by the ground mode of the modern age – Thrusthoeth Mark Netteroop her have store that and the set of the performance of the set of the set of the performance of the set of the set of the performance of the set of set of the set of the

If you way the present so called alonnative movements as a whole, not just to separate transfer you can see the complementary dimensions of a Unique that cauld be a red Unique in of just in fusionary one term not interested in a tentary Utope but only in and one

In my Ulopian woon we must oreste an incohere ethnally responsible science, an incohere physics, genetics, and other fields, we must most from the threat of technologically which dominates all areas of to and is destroy, ing much of our environment if on in noise takam this processes the environment and unaran regime we must move that is too mode and topical information of the movie.

The existentized system should play and part in height audomit ind solarino boreceptorial transmission and hypercontrol and transmission and transmission tout and name and feature and feature tout and the second and feature and feature between individual durinois and blan between individual durinois and blan at heating hower individual pomeaning to the president demonstra-

We need a transformation of die talloop and points—beed exclusively on molenalise metch for secarity carrent scopes and consumption. In the development "potentionalises," delines, a designer interentioned on the secarity carrent scope evolution of the secarity of the sectemation of the secarity and sectemation of the secarity and secret and design for whitehead secret delines on the carrent scope delines white and design for whitehead sectemation of the carrent scope and head whitehead secarity and secarity and the secarity of the secarity of the second secarity of the interest minimal scope and head to all interest minimal.

In my Usopa my church, the Catholic Church will be rereved. We are at an impasse boby Exertially someone—a (bore John XXIV—averright will deal weekly with essue such as birth control. The admission of diverged execute to the section which is



- Multiplied reading and relation rates
- · Elevatori sell-asteen from elevatory sell-astetare

Major breakthroughs are taking place in the field of neuroscience Leading the way is John-David, Ph.D., founder of Whole-Brave Ceurolog<sup>14</sup>

John-David's discovery of sound patterns (contain tones and sounds played at different frequencies) sont to pro-designated areas of the continent, may help soundhave quantum leaps in accelerated learning

The data spectra base data success as when and the data standing of the

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maniage of press. The equahy of women in the Chuch free sponshread of all four gets to the endnation of women. Aller aller exigourch that no cold was aggregtion and faitned, we will antwere communens and faitned in the works align on in Impaid work day and right for the consummotion because there will be not Using on a preside among the nation on.

"I am also find of saying that a war of lighting is like a clance because it is all pangfinance and beck. That is the insease that revolutions and Clapsia are considered too cliffoult, they are up and down and rate and analy and its are it."

-Gorludo Sten Everybody's Autobiography

Term Type Bakks televarghit i have been to many places, but of my Uzes been to many places, but of my Uzes have been been been been been been later to be all be bangehard. I be bange been tele Dangehard. The first free have and be the Dangehard. The first free have able to be all the bangehard table to be all the bangehard in the term was any back as wordertice that first was any back as wordertice that there was any back as wordertice that there was any back as worder the bangehard worder. It is such a back state table to back the back as the back and the back back the back to back the back the back state the back to back the back the back state the back to back the back back to back the back the back back to back the back back to back the back back to back the back back back the back the back back the back th

I ve always been a dreamer, so it's fun to dream about an ideal world. I would take us backward to the old-fashioned values The displayers shall with its add great great great parallel shall be add to be add great great parallel shall be add to be add great with a shall be add to be add

I would cut television in half and news broadcasts—good news as well as bad mixer—down to a quarter of whit we watch today. We look at too much TV—#5 logging cur minds and cuting our beins

In my deal world I would be lass quick to judge. I have changed in this last year, and I don't want to judge people on what I hele about them. I want to give everyone the benall of the doubt.

In my Ulopia, I would love to see Josus lace to-face. And screeday I m going to Im going to But I would like to be able to

## WHOLE-BRAIN SEMINARS

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John-David Learning Insbitute 2443 Impais Drive, Bidg B Carlsbed, California 92008 (619) 931-0456

see Jeas right now because I have lists of quototon I would lie to add do do do as Jeass. Why are people to mean to each other? Way at twen of the human to be people? Why is there and not people? Why is there are much just any? Why mark twe just all do human to dealers with the II lies could have made minime institute II lies could have made minime toot six or samething. If is would have loot six or samething. If is would have loot six or samething.

In one paid what my want, the works the the period 1 is to choose much source on pair. Twen always neutron to be a choose one of the source of the source pair is the source of the source pair and the source of the source of the source one pairs partners and the source of the before. Where was all feets the source of the before the source of the before the before the source of the before the befor

You know I in a totally romanic person I mean. I light a implace in the middle of tot. Celle the sermine it can be one hundred and two degrees outside and my teplace is it, and my concles are burring. I am lotally a consiste. So my scenarice waw of a main and woman is the they would be able to level an atmosphere of tomance injust a work of enamine.

Cire of the micest timps my husbard does for mis when I gail new holl tuck me in back and say. Now you say the Timmy and you sat. His close the binds and is he room he way like if Orhell go both Timmy, and then hull kas me and both Timmy, and then hull kas me and usk me in bed. These I mgs make mansinges so much sears for vortice. The bito say. The unit of sould report in you

The generation periods (assume 10 have to my Ukbap, the third culturation thing is that involves the third culturation that a serve warp, added more again. We do II you means had the very about more you could do in hypes of therapy you may warred to do laways thought 11 don't ever there to early about more you linew i waveful got given away. Boy would I give it away 1 boold can boold more and dats.

Ass for myself it would be a lot of fun lo have the ethnica to any with certain people 1 instity origor pourley impair. As not fun music And 1 really like block music a 6. Instity inspiriter black patient pourley to love to any with Doly Parton and Barb Streeteric Doly's such a fun lody and Earb Stream is one of the greatest I believe one of the greatest singless of all inve. And I haaky lowed the get who deet of anoroses (Raten Carpenter) She was one of my very byworid singlers.

The X-Ter Top Carlo was my lowons of its over over my harder in the words and its own of them part of them parts in the the words and its own of them parts in the them is and its own of the them the methods and the second and the second and the method words method the sky to its was and with the second and the sky to its was and the second and the sky to the sky to the ter store in the sky top the sky top the ter store in the sky top the sky top the ter store in the sky top the sky top the ter store is the sky top the sky top the ter store is the sky top the sky top the ter store is the sky top the sky top the ter store is the sky top the sky top the ter store is the sky top the sky top the ter store is the sky top the sky top the ter store is the sky top the sky top the ter sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the sky top the sky top the sky top the ter sky top the ter sky top the sky top

The lifet's about charants for repart if the binding in reverse varies di a you't nover wendori opsiohappe i Meanity me mices with the Linde States of Annores, and I would like to marke if a more steel, more index in my doat words the gambanes of heargent hearant people and bar of the present the same people and bar of the heargent hearant people and bar of the hearant hearant people and bar of hearant hearant people and bar of hearant hearant people and hearant hearant people and hearant hearant people and heara

Ican the without bughter Love to lough And I to day if I diath Thave bughter in my life In my side world people would bught a loci Leend to take myself much too senously semitimes and when I do I say Lighten up Tammy Lighten up! Nothing is really that i soumac--short of the clash of a loved one

Intrivit lie moto for my Upper would be premers at 38, my lacents Scrapture strate. Therems on the lacent scrapture strate. There is no cloud that Hauring in the Upper term of the strate strategies and the strategies paid and materials. The sign will be as process and cloud to the solution of the solution applies and materials. The sign will be as process and cloud to the solution of the solution applies and materials. The sign will be asapplies and the solution of the solution of a weak profile takes.

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—Owd The Metamorphoses, Book 1.

Loan tementar for instance musches for human rights in my country Argentina, during the military dictationship from 1940 to 1983 and momenta of community patient and singing in thisses moments we are admitted into the presence of Usope and dime memory of auch visits inputnets hope and dives strendth to the quest

Upper words always catch the meaning of three werts and microse Uppein ideals packet liberation redamption Fore is allefam or packet. It becomes in trait this pain model because it brings together in concrete images the wholeness of human life meanal contrast and approximation peseral communal, and cacal memory action and hope.

In Lass Arrienza the distance magnet of advances and the Dorsson of Christ-Induktion and the Dorsson of Christ-Induktion and the Dorsson of Christ-Induktion and Christian and Christian and Christian comparisation. The compared and the complement of the compared and the complement of the compared and the complement of the compared and the compared Christian is powerled by the compared Christian is powerted by the compared Christian in the complement of the compared christian and the compared Christian is powerled by the compared Christian in the complement of the compared christian and the complement of the compared and the complement of the compared christian and the complement of the and the complement of the compared transmittian and the complement of the complement of the compared of the compared transmittian the compared of the compared transmittian and the compared of the compared transmittian and the compared of the compared of the transmittian and the compared of the compared of the transmittian and the compared of the compared of the transmittian and the compared of the compared of the transmittian and the compared of the compared of the transmittian and the compared of the compared of the transmittian and the compared of the compared of the compared transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the transmittian and the compared of the compared of the compared of the

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In 1988 I went to live in a commune in Alaska. We were trying out our Upper Centrie projecti del Tier werk, testing the water from the well and contain poople au on the ocurk resyng. The our II'might fall be there had I not been raise of his ones carrying the water. In Upper you water everytody carrying the water. There every body can alter the rest and his of the ones.

We are by nature a theial people Uhipsa would work best live organized into arrell lifese—bat the warring tithes. And worthen would rush the thibbs That would be a nice awakh it Avouid be interesting to see I we would would be the set of the theory of the would be an expension of the set of the then to install how it has been used and massed in the past I import not like the answer to that one but IC we to give it a line and taken workshows.

Contanty in my Utgos freee would be objectly behaven the series and a good child care pokey. All children would have would have date to play with and all children would have date to play with And care pokace of terminium hay mod. With my Indo system we would have large extended termines and the felderly would assume hore place in them performs of depiny and m-



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In my Utopia I minot sure we would have television news at all - ptobably not even any television reporters. We would have reported and of National Public Radio And two et clear the newspanets of the

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I believe in truth pation rock and roll



and the American way I'm just is pained. Of course clarification imagine a Uppinishoutlocktandini Imry Ubpa hiters whysis will be inplace in honor for Bruce Springton, Cabb Dylan, and Nati, James Talow, Beb Dylan, Maki, Jagger, and Chuck Berry Hay occuby on earth calls. I Uppa if they wan no Chuck Berry Flut you would not thind Machine.

"Gaven the people by regulations and they will the from you Govern them by most factor and they well keep that cell respect and come to you of their own accord"......Contects, If 3

The steal, the radical robon, is to basis, the ink baseven income and work that arists in capitalist societies...Ito break the deethet what you receive is proportional to what you provide or give in Libopa, what you receive is what you need, and what you give is what you need, and what you give is what you need.

The basic necessitias of ite-food, index clothing, educator, metholi classase met in my libpai i Lobit case if they are lazy, promissious intervent, rothen people No one should have to go hungry or case-assumptie of not And mmy Ubo pial wouldn't change a single tased thuman rotage as we new kriter it.

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I also would include the Bill of Rights, one of the most precious accursitions of the human spint And I would democratize





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#### A PRIVATE SECRETARY FOR YOUR POCKET



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#### PULSE WATCH



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#### THEFT-STOP - BECAUSE APPEARANCES COUNT

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#### SAFETY FOR & BAINY DAY



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#### DUST MAGNETS

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#### DIVER'S WATCH



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#### INFRARED IMPROVEMENT



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communications so that the right to gain access to investor was not restricted to those with handleds of millions of diclars I would forthed any candidians to they salewatch that handle a new service. I that, the private funding PACs (polineal action committees) and them libraria Sanata are abormunators.

"In communist society socially regulates this general production and thus mines it possible for one to do one thing locky and another tomorous to taken a the moning, that is the advances near cattle inter evening chaose addir densit

-Kari Meor

Jesse Jackson, Demonter pusiskemi centralias Win www.social orden recognece hat moot people in the works are retremente. Centralin, Esplais baseling nonnah il saist with a sergie parente human offst loc human beings-mot augeon mult be memanolity non particitat. Sergie actions metal action y non particitat. Sergie actions metal action y non particitat. Sergie actions metal action y non particitat. Sergie actions stata das while longs in the rest hough heter is promote. supposition, and ecnemic explosition

Human rights for all human being is the reflying our, Curr goel must be to light for task human laboration. We must feed the hungty inducate more people, provide of our and task human provide of our people. We must bear our secrets into physichares We can the when we over life.

The Western world must do something thas not had to do in the test our hundred years. Thisk in more, creative ways usainpartusy, be patient respect norwhite poople, and operate with more authority not meanly with mittary power.

We can being economic and educatomal equity into the world if we maintain a asme of passion for knowledge, science religion and human williais. We have natural resources, a growing body of human knowledge and the technological know how to achieve gaals beyond the widest dreams of are internetwork to care load.

The principle of ensists in the foundation the the theory of theory which every thing eleves that. Service is structured in the very instruction of insight test in these is not before any matrix of these is not the the highest and pureal form of power to be availed the structure. The highest and pureal form of power is in giving. Power taken available will be taken again by isomeone rise. Power that any avail, will be taken again by isomeone rise. Power the available will be taken again by isomeone rise. Power the available will be taken again by isomeone rise. Power the available will be taken again by isomeone rise. Power the available will be taken again by isomeone rise. Power the available will be taken again by isomeone rise.

The spinit that we need for this task can be found in the works of a song that black childrin work origing in Coarcensts South Arritat. In the very pi of exploration—no bathloom as unning were no right to vide no political pottection, no utilizat ingust with nothing but their hope and saft in it Goo—I have them ang. Let us remain alive and alors as antion." Const Wentry, tails show host actives to baken that all perplo careter ther own refitty—up to including and who income primases were beyond Ukpain. If you can concave an case and below that sho you concave an activities that power to short wong our initiations that power to short wong our come and when the machine marked in our own multi-

Heel as though Lam living in Usopia right now. It is not a matter of having achieved obmain gaals or calling to mind particular moments that i could call Utopia. My entre life is Utopian.

In Usipia my lie wulid be easyly the same as it is right now i would be doing a list alway because it makes a politike alfrance in people's uses. Lake would contrive my work as an achieve because the is what I was bern to do I'm telling you have would be no driftenere because to truly believe you can have n'all—and all in chelleren.

 I start
 with a simple premise human rights for
 human beings. Not superior rights for some people and inferior rights for others, but equal rights for all ?

The entropi element laking in badys abody the high the works go openhale inholding Upgato back here carrying the here and the second second second second memory as influence on ortical, by serve memory and an and the second second second the problem here may about a portee diflatence in their two is may ubcan there and be driving way. But more encourse, notophican that charge mant serve the the indextual encourse.

The aducational system in my Uspaa would center on the principle of taking responsibility for ones own bottoms and a movied interaction ones own bottoms and and induction of the principle of the programmed of the programmed will be reached.

Dee gevernig principal in my Lepea world be the law of drives acceptory. Whatwe good you pet out in the universe world own boards and waterime that you put out would come back and waterime that you would have be in reflect even in a Uspan board, serve is an intervent world be in about the out or waterial back wateries. And is that you gather law the teaches us to before our world back to be about their before our world back out the teaches us to only in our actions but in our thoughts and intentions as well

Let the gain's you an exemption by such cases centrolymy queedly and classes was lossion at gentlamitywar And let motal by use it was some powerly in [chasted in the Louis the animal and everyone around me. Aher Lookind down i realised i di laud in corresp. For two classific hand been and possible finch and had made averyone around me maportube (twee) are stretching home, and mean emble Twee are stretching home, and mean traises of these gald everyons. I should have seen it coming.

In the stopp I would keep the physical work saids the same I can't believe I'm strengths Doyau tesket have addingers indices in the weath' Which dhis saidtigs of seventhe weath' Which dhis said that a seventhe weath' weath dhis Sectim to vie for unambeing Reason in this secrets in their weather with humicrose paradit the section of the physical paradit the section of the weather there of section said section and the section of the secgents and section said.

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Jona Sak, where of he holder pice or medican to diverging the gale vectors in my Ularam Numeritaria will baceware deally and creatively engaged in this process of available for minute and second, the availability of criminal and second, the availability of particular by save. This development will be gain a change in percaptor, a mention from the previous Takgings to a bain of in camerasy creative wouldow as the process by which the tuand maintary will be determined.

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Peike Glass, muscan, composer Tesmey not pond like winkly with workt hulf any not pond like winkly with workt hulf evolution of the only. The top offers of the south referency chemicates kin San Pation or Marcin Clave. The magazinas with ponularane of more than twenty-like malacipative screating. happens: the ofly is suddarily a different places are completely different annih-with a different sol.

Crose like Silo Paulie become service likely drafte with harminity fills a line ungane form seems to diverible. And contany the proteiners are scannard. Scree Upper, htt? No claim water, claim in claim savege suit the same doi unit-and at a more intense level yet. Is it Upperf Postably net. Bit a new scala order is ovolving thate. These cuts are the twentylies central.

When I talk about my vision of Utopia no not that different from the world I am almedy living in 1 lake commuty between the problems in Barut and the visionce in the streets of New York. In my mild, Utopia is understanding that continuity

In my upplic access, music is free of the influences that go against di matchal icle alarm When music is instanti and sportsnoous in has a protosilo compasar. Whicontract is any actual or compasar. Whide and much more unflague there was as only good and to bosen. It is owned With out and more contact, would be not owned with out and more contact, would work out and more contact.

Soli exercises......tract is what we've neity been tiking sibcut. To the Lilopia is knowing what we are and with whe doing and who we are. The's the big difference between my Linoper society and today is socety, and theirs probably the only diffeence Ali we can change is what we know, how we participal is.

"Eferature is my Litopia. Here i em not defranchisad. No barrier of the senses struts me out from the sweet gravesous discourse of my book liventh."

-Halen Kollor, The Story of My Life

Joseph Kennedy II, congressmen (D-Massachusetti) The seeds of a Ulepan receity--the-embodiment of our tontain hers' vision of Amenoa as a land of opportunity, a land of compossion---skeesky is writin the social fabric of the Linket to own States Compassion is our hope for the future. Simple acts of caring are the fourdation upon which a Utopa cari be built

But large segments of our population are stud off from toportunity. Today winths notand powerful ration twenty line patient of our children grow up in poverty. An estmeted thirty-line million Americans taxes no headth insurance. The trainer of homoloconess now grapp children as finguerally as adults. Disposit sites in unin-chy high schools are homoloco.

With recessible such as tool, hourer, which can advect a bound of the own motivcitizen can develop his of her own motivfued as that building new homes doesn't cause hometosenes, new hereith-care piers dont sink out fre poor, production or contaminete he soit. When gread is supplemented by camp, due accedy will move toward is full potential, to a more videl soorty.

Art is what keeps us really same. It's not only good and Utopian, it is crucial. Without art and music we would be much madder and more unhappy than we are

Kart Wonggit autors loadend.--or your logical parathera -- every clobe to my skee of Lappa. No pixe it has a loavy cloted and a party tracked privately a do Lappa oracia. Proceeding nothing grows reservtion of the parate loave a about, how here tail by it of bength some-an entoremon in hanni. The same number of popular loave the in Rochteler sould with a strong sorts of Lamy. The same number of popular loave in Rochteler. New York askes the loaded it my Lappan. Softmen pupple will rescue the number of potended lawners.

I want to Balance the work to that it is denoted up into manageable latter states Weather will have regional governments. I don't know Regional territies are what I want because poople actor to gotter for many yeast and look out for each other. Within hose territy souchases I would have no rules except that everyone know he befores to a territy.

I want an instremely rich culture in my Utopie I would encourage people to become attats as a way to ency lite. It is prest fun to make pictures and to and acres and to damea twoled lite to tave a kind of Life. appear of the Herd and Fahrbors is which semiting an anotaen werk year, Not the BH of Rephils to hou US. Contributor—werk make a semitive the semitive semitive semimeans would be instead before. And this would be instead before which Uses have means would be instead before. And its don't hat the production has to be instead in some way, otherweak we imply well sofcets that the production has not be instead in some way, otherweak we imply well softher house is an other for magning South The Negation and metal for magning South The Negation and the source well and the source is the propert field.

Even headin im an athead, i wouldn't mind helpful, comforting suportations being a part of my Ubges, i would elimnate destructive vicious supersificions. People would not ind unitination for ratsmotwarin les Bible. Dely beingn supersifiers would have their olice.

In my litgen Linuxia costanty densities metricon grava wold king Lidah have a gata and Lidah tasa linn or neresteden metricon grava wold king Lidah have a mutaritude lidah tasa linn or neresteden her heraderich of help in them become an mutaritude. The impute a tauget by VL be heraderich of her United States lives/on test and an another become studies of the hereating and the based of particular and and wespons leaves a torial control and and the second state of the metric and the second state of the second

Denoted Transp. test extent developer and presenters of the Tempo Dragnetation. When I persone my Ukopa I envision a obje-which in suppose in appropriate Bad works the a afferent land of cmy. Execute be a big only and favorable the indrary. The propher would be achieved the indrary of the propher would be achieved to proceed a head only and should be indrary. The propher would be achieved to proceed a head only be able to the should be achieved to the account with the only

As bread of the majority of cycl, a world make such that grownmot or all kindle, budgeted much more money for estuarperand hangetitem than a budgeted in present day cases. A only depends on all worldoters Mass transportion much be in priority in my city these will be no delays. These these devous: A scale and these massterest systems and before spectrally the — hancestary and i before a spectrally.

Teachers would be peel more schools would be kept chen and sale classes would be smaller weste would be dismetoally lessened and discipline would be enforced for chulden, sachers, palenta — for everyone involved — pinde would replace norte.

Beyond my city il would have to add that I am concerned about the prospect of a mudder holocaust in my data work, clearly this would not even be considered a possibility. Short of this deal it would live it regotestrams control againments with the Soviat Usion. Negotestor is an intra and it have a guil to it CO.

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AGE

## HORROR

CONTINUED IN OM PROF 54

crude monoliths the only remnants of a variabled people. All vary mystericus

He lifted the homemade lag and underneath it was the original label. On it was the size iva. His size

I was liste! He scooped it up

The woman at the register had a face tike chapped finil She shifted started to any up the cost, then stopped and glined at him. This shift glined

I--"Weed let a wish of penic. She was going to take is away from him. He tensed preparing to crab the cost and run.

"It a white lag. That II to five dollars: Thirty cents las." Weed scrabbled out the micing so task he spalled his change across the courter and had to chase after it. Then he strafficher the cost and field.

Don't you want a bag? the women called after him

But he was already outside tearing off his cruddy old K mart special and drop prig it disclanfully on the sidewalk. He struggled into his Burberry.

Effigureal The moment haihaid torn has branks with sites (bia a defermed shifted hib back also ghowed in a memory out of the backsery put nim in control Ho Mis autoeditormed—a man of destruy. But as the winder downline, the statused has a cerehedrol grading of the shifted of the backsery backsery of the shifted of the background back of the shifted of the background back of the shift of the background backgroun

There was something in the kth-load points Something heavy have have heavy points addressing heavy have have heavy with each may heavy heavy to be addressing pumped a life of the points of the single many data with a source of the source with a source of the source of the single writing at the many source of the many Brad mit to the the the source source. Brad mit to the the source source Brad mit to the the source source best to the the source source best the single source source best the single source source best the single source so

The car through the new weep poket park to the carry. The was where the adways wort to the carry. The boatwards fluenced the sessmply understand the control of the through the session of the carry of the sessing the session of the carry of the carry session of the boatwards, the blowes the park of the boatwards, the blowes the under of the boatwards, the blowes the under of the boatwards, the clowes the under of the boatwards, the clowes the under of the boatwards are thousand to be blower the of the boatward the blower the boatward the clower the blower the boatward the blower the blower the boatward the blower the blower the boatward the blower the b

And screamed Whalever was in the pockel, it hadn't eaten in over four decades And it was hungry Very hungry .

Weed led to the cround his acream a high, utuating cry But the trees multied to get a Inter-tes tophy startic carry spelli and over the fraction where the foundary waves too body climit. The thing in thes poolet wave where years and the web both that cliq. Into where years and the start that cliq. Into the start of the start of the start of the point the start webser wave in their wave starting induced induced wave the start of the Wead click and no keepse externel. This would be Wead click in hysical parts the whead clicks and in hysical parts with the start of the start of the start particles at a store of the start of the particles at a store of the start of the particles at a store of the start of the particles at a store of the starts.

The thing chuckled. Geoperately Weed stimmed his pocket until his thigh hurt as badly as his hand, and the rock lell hom nerveless/ingers, it had not the least effect on the creature in the overcoal.

The horsels thing was that despite he pair he could still think By the time the thing had reached he was he realized that as tono as the builded he airm away is could

 There was something in the left-hand pocket. Now he could feel it shift slightly with each step he took, We a pocket llask not quite full of mercury Sometimes it jumped a title, as if it were alive?

make on lumber progress. But the instant he eased up however slightly if leeped lowand to tank da teach sightly higher up his arm He restrict as best he could but the pain was ummagnable. Les alticing your hand inside a garbage disposal and turning if on? No, worse than their he thought hystericable Much worse.

By the time is statistical to a block Weed want to block human How as whittpen ring, scolar plung have hird where weight plung have hird with the weight to the block The term want is a statistical block. The term have block to the block The term how as a minimum in the statistical in the plung have block to the term and the plung have block and the term and the term and the statistical term and the term and the statistical term and statistical term and te

But that had been the explorer s last day in Paela. The overcost had been loided away in a mark before it could feed, and there it had stayed for over forty years anphoned in alien form and hungering

Less working on Weeds Light "an which is high michaely last concursaress. Thange well mode laser then Me Traditally it provides and dependent memacrivital and spacered like bothprase through the annelise likewise in dwnniet Link likewise below and underschild Link likewise the bothprase through the and bother they were saided down the address they were saided down the didate. But he gives have a solid down the didate. But he gives have a solid down the didate through the here of Needs (1) for the said both here of Needs (1) for the said the said here of the said here (1) for the said the said here of the said the control to both and the mainterse

He didn't see the Burberry burg

#### TWO MINUTES FORTY-FIVE SECONDS By Dan Simmore

Hope Coloni closed hit ways and he is lead bot clamped down acros in hit ap and they began the stress olimit. He could hear the ratik of the heavy chain and the creak of steel wheels on steel rais as they claricad un he tert hit of the roller could's Someone bottnd him laughted nanovaky. Nemtied of heights, heart powering peetfully against his risk. Colvin peetfully against his risk. Colvin peetfully against his risk. Colvin peetfully against his risk.

The mitid sets and white wooden frame rose stooply whead of time. Colver was in the first car. He lowered both hands and lightly grapped the metal restauring too Someone gogled in the car bothing her. He toned his head only tar enough to peer own the sade of the rate.

They were very high and all nong. The materian and particul let grave matter in dividual ground, too try to be seen and line crowes becomes in the seen and line crowes becomes in the seen and these of tobes and lights all no one or booms which from the restree currt. They checked higher. The also distributes the one or booms which from the net rectors. They checked higher. The also distributes the tobe of all hier row are exactly be generated to the current of the second the tobe to the second the second the second hes could need the second the tors of the second the second the tors of the second the second the material the second the tors of the second the second the second hes could need the second the tors of the second the second the second hes could need the second the tors of the second the second the second hes could need the second hes second second hes

# LIGHT-YEARS A EAD-IN H

### GROWING PLANTS PYRAPONIMETRIC

In a laboratory at a major university under tedenal license, Jettery DeMarco, preand founder of Pyropone. Individings, develtive discrete base concept This concept and methodology used is called growing a Pyroponimetrically This makes the Photona only closed system in the world.

To employ the discrete base concept, at two roll samples must be removed from the 5 of the Phototron. The first is removed for 15 and the second on Day 90 of plant growth

A soil emotype is to inspecif lowers in their formation of hypothic laborations, is down iterational patients for the deplation rates in the source of the source of the source of the mitten open of nintee integers on Dey L committen open of nintee integers on Dey L committen open of nintee integers on Dey L cotext of the source of

Chemical levels in your sel are morine by Pyropoule controlled numeri supply, sont lecomputer controlled numeri supply, sont leadre each solt andrysis. The chemical or ed are nibagen, phosphorus, potrastum, conargenesum, sodium, choicie, autoritation manganese, boron, moltidenum, soltable or and Ph.

Wind velocity, extran disorde sources relative humidy, and lange-status are a call of ed by the design of the Franchis, numps are as more than to play the source of the the born any of these (3) etities and these (3) estimted on the source is an end of the source of the source of the source is an end of the ing each a photosymbolic factory. Hence is a the last beaution is command to the plant is an all cognes. This all includes prove the plant is an all cognes. This all includes the source is plants are and the last source is command to be plants is an all cognes. This all includes the source is plants then all cognes. This all includes the

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the steep gradient lessened, as they reached the top

And went over

There was nothing beyond The two state curved out and down and ended in air

Colum grapped the restraining ber as the car priched forward and over He opened his mouth to scream. The fail began

Hey, the worst peris sown<sup>2</sup> Cokenperied has might so saw BI Managerrey. handing him a chrik. The sound of the distretures yet ergres was in cut har hole under the gantile hearing of air tiom the worked worklear nozie. Coken sock her direk, turned clean the two of air, and tagened out the worke. Loggin lifetime local was sheetly cut of sight burned them back to be also on distribut white trangered soin the requires different backs. The sound is small white trangered soin the requires different backs.

Dann, we're glad you foesil ei borne with on this min hogin. Mintgorney laid dy you foesil a thoragon a ser an a ser a s

The company's ready to see better days and Lany Miler Two and a hell years of bad press is certainly enough. It will be good to see the launch tomorow Get pergesteried again

Hear hear said forn Wescott It was not yet noon but forn had already had too much to drink

County opened his eyes and smiled Counting harself, here were loar corponies waa protect har in the plane. Weacood waa sail a project manager. Colvin put his check to the window and witchheid Capie. Cool Bay pass balow He guessed then attaude to be eleven or twelve thousand well and circhers.

Colorn imagined a building mer miles hugh From threat of this top face he would step into the elevator. The floor of the elevator would be made of glass. The elevator benaam him, each floor marked with helogen light, the parallel lights change classe in the nere miles of black at benesh him until here remend in a black baltow.

He would look up in time to see the car bis stops separate? If Is fills, including it littly of the made wells of the introduct wells which have growth as sigpery as the clear global loop Lights run hay but already the constate loop of the shaft is suble milles below—ainytotic corplanmisk. If is introduct that he have already finder manufact to watch that the have already corner clear in we up to smaeh hm. Colve screams, and the spt. tio toats in the air in tront of him talking et the same velocity hanging three. This lights rush past. The blue square grows

Colum took a drink placed the glass in the prote set in the wole ann of his chair and tapped away at his celouistor

Deline potentia ni a gravity liati follow present nativentical tude an process nativentical tude and process at the locos vectors and harn rates in the speed charge and told later. Collen had disagned for vectry vans tud and collen tude disagned for vectry vans tude and out wellow vectory vectors and tude tude vector vector vectors upon any tude tude vector vector vectors and speed of a family body. Remova vector vector vectors upon any tude tude vector vectors and speed of a family body. Remova vector vector vectors upon any tude tude vector vectors any mass distribution and turface assa are moch as upon any tude.

Coher lowered his eyelds as it to data and any what his say every right when he pretended to sleep. The britowing white cloud expending colvered lies a time labol firm of a stanting. I thing stratocumulus blossoning against a dark blue sky the incidable torown interace of infocom lettore.

Alraid of heights Always afraid: He was six years old and in the barn, tumbing from the loft, the fail seemingly endless, time stretching, the sharp times of the pitchfork using forward him ?

as later and—aut while below It to the energing methods while the SML basisge interface and the second second second transfer in the second second second second second the second second second second second second the declaration of the second second second second sectors and the second s

"Roger stad Sarve Cahil whate diyou out your loar of Babo?

Colon strugged, firshed he vodial "I donUknow

In Wetnam—not Nam or In-ocuntry —a place Colve still wanted to firsk of as a place rather than a consider the had fown. Already an expert on shaped charges and propellarits. Colve was barry been cut in Dung San Weily net the costs or see why in whitement of standard C-4 datatic explosions was not detending to the set of the standard standard standard standard been have, and the helicoptic stall, interlies two through standard start standard stade costs, in views len free stores the standard start do been notify impaired by a with the original start start start provide the start start starts at start start start start start start starts at starts at start start start start start starts at starts start starts at starts starts at starts at starts at starts at starts at starts at starts starts at starts at

Colvin locked down as they crossed Narkuble: He cannabel ther alkilude of egytheen thousand field and clumbing stacky. There cruaing alkilude he know was to be thirty two thousand feel. Much lower than threps: thousand teel, Much lower than threps: thousand teel, Much lower than threps: thousand teel much much dependent upon authorse remain

We application was aboyn the 1999 to a set application in the 104 Network (in gaterori a vector who test proped of the threads table building and latend on the toof of a car Her legs were crossed alreads building and the set and the set of the test of one of her report spochage. The legs of the car was failtmed, tabled in whites moting, cells to the weight of a stepping perior. The womain haad bolied of all even as the legs of perior stepping perior. The womain haad bolied of all even as the does on a soft prior were set of the set of the weight of a stepping perior. The womain haad bolied and if were same to be womain.

Colvin topped at his calculator: A woman integrang, oil the Empire State Balding would bill for almost burthere seconds betoe hitting the simult Scrineare failing in a meal lock from forsy-set thousand lock would lait for two minutes and tony free exempts before hitting the water. What old she thrivit account? What old dry time shoul?

Most popular songs and rock videos are about three muses and rock videos are to a good length of are not to long one gets borned long enough to tell a story.

We're clamned glad you're with us Bill Monfeomery said again

"God clarm IL," Bill Montgomery had whispened to Colvin outside the telecontenence noom wently seven months callier "Are you with up or acamet us on this?"

A teleconference was much take a latance. The group sat in settudarkened tooms hundroots or thousands of miles gast and communed with vocasi which came from rowhere.

Well sharts the weather isluador here came the voice from KSC. What's it to be?"

We've seen your talefored stuff and be voce from Manihal. But all don't on destance why we should consider scrubbing based on an anomaly that street. Noubacked up in all this shuff was so tale safe that you could lock it around the block if you wertiff to

PhilMoGure the chief angineer on Colvins project trem, sourmed in his weat and spoke too loadly. The teleconference phones had spokers by each chair and

## SPLIT WORLD



In an age when the chasm between developed and underdeveloped nations of the world appears to be welaning. Spit World , actiamed as one of the finest examples of john Pitre's work, depicts a timely dramitization of the orgoing conflict between the industrial world of high technology and its rural underdeveloped counterpart

"Solit World 1 is a Frie art limited edition print executed on anthrwit, and free paper at



to write or telephone for additional information. Offered exclusively from:

could pickup the antiheat lones. "Nex advert understand" do you?" McGaure almost allocated. Try the combination of cold lampergraves and the likelihood of electimal optivity in the cloud by the all causes the psoblems. In the past, the lights thetive been time transmit events in the leads that run from SRB linear-stepped charges to the Reing Statity corrested allerations.

"Transent events "said the voice from KSC "but they are within light certification parameters?"

Weil yes," said McGairm Ibi sounded clave laws That if windin par ramotro bacasso we keep signing weies and rewring the goodsmin paramters. We paid card Avere with the C-138 and IT woods a transmit care flow when an atabia function than born the SRBs and IT woods a transmit care flow when a stabia function that born the SRBs and IT woods a transmit care flow the stabia function that born the SRBs concentrative years on the states for the secondarial years on the states change to secondaria years.

Mr Colve?

Colori detend his tircat. We've been wetching that for some time. Preimmary data suggests temperatures below twentyeight dogenes Fahrentheit flow the acc cade residue in the C-128 stracter to conduct a take signal - if here's enough shife doctarge - hoceretically -

"But no solid database on this yst?" said the voice from Marshall

"No," raid Cohrt

"And you did sign the Criticality One water certifying tight readness on the last trave flotts?"

Yes said Colvin

Well "said the voice from KSC" we ve heard from the angreens at Baunet HCS What do you say we have recommendations from mankgement there?

Bill Montgomery had called a five meule break, and the monagement team met in the hell. "God damm it. Roger, are you with us or against us on this ond?"

Colvin had looked sweet

"I'm servacia" anapsisi Montgominy "The LCS device has brought this company two hundred and there million delan in profit has you, and you winh has been an important part of that success Regin Navi you seem makily to shat that waky on some publication of that success devices and some means that we deman when comparised both work will we deman that that the success and the success that the by learning your head black that hysitem MoN amil."

"Ready?" said the voice from KSC when two minutes had passed

'Go,' said Vice President Monigomery

Co., and the Desider resident

Go I stad Project Macagant Warspolt

Contract of the state of the state

"Fire, said KSC 11 pass along the recormerdation Scrivy ou gentiemen wont be here to watch the intol" tempinaw" Bill' said Colvin. 'approximately how much did the company make this year on the C-128 exclosure?

Monigomery took a clarik and stretched his legs in the scorry interior of the Gulfstream. About loarhundred million 1 funk. Rog. Why?"

And old the againcy ever seriously conador conglio someone etile atter after?

Sife said Tem Wescott, where eleccould bey go? We got them by the shart has. They thought about if for a two months and then came crawling back. You know yours the back deargener of shupped range sately devices and saled hypergolosis in the country. Rog

Coinn modeled worked with his calcutator a maste and closed his eyes. The said bar closed his eyes. The said bar closed and the calculated higher and higher. The air graw that and cold the socialch of whell on sail clearching rate a thin socialm as the toler coaster lumbered above the receive mark

In case of loss of cabin prassure, caygen masks will descend from the ceiling fleater fasten shem securely over your mouth and nose and breathe normally

Cakin prefect sheed up the tentile incline of the roller coaster sensing the summit of the cierts shead and the ampleness brond that point.

The tiny antitrick and-mask combinatops was called PEAPs.—Personal Egress Ar Packs PEAPs from tax of the her crew members was incovered from the cealer bottom Al had been activitied. Two minules and long-free seconds of each free members and kong-free seconds of each free

Color watched the summit of the tole consister's first hill imme

There was a row motallic noise and a lurch is the roller coaster wert over he lop and off the rails. Propile in the centroline Colors remained and later to screaming.

Construction forward and gradiest the existance bit will be reast capital plant metor data into the reast capital plant control beingers. A minip of program exist full data will be any being based here had antioned all of the part and planes assignant. Marking here appealed here exhibited assigned in the standard will be explored assigned to the standard will be explored assigned to be standard as a standard based as will be standard meaning law manufact and forly-be standard assigned to be standard as a standard based based assigned assigned as a standard based based based based assigned assigned as a standard based based based assigned assigned as a standard based based based based assigned assigned as a standard based based based based assigned based based based based based based based based assigned based based based based based based based based assigned based based based based based based based based assigned based based based based based based based based assigned based based based based based based based based based assigned based assigned based assigned based bas

Colvin reached for his calculator, but it had fearn free in the cabin, colliding with hurding bottles glasses, cushiens, and bockes that had not been securely salapped in The colliding waie very load.

Two smutes and forty-two seconds Timefolitakic/manythings And pertaps jud portaga, after two and a half years of nosleep without dreams, pertaps it would be time enough for a short raip with nig dearmail all Oction closed the secol DO

## SPACE

CONTINUED FROM PLOT IS

Into before a usably stability of a literity The Bandaces again the layer layers of mind like hyprobability in widerines with the infranced hyproba capacity area. The infranced hyproba capacity contentions in the infrance of the layer bance wagnation go to stop or incases wightened to post infra-of with out areg drugs and at to cost' away Manarte Bangaze

Heurop the right person along might the his period average to some of the attenses of long sem space lawel. Supporting Plus manerities a comparishint's psychologist Darina Devis a wiseland oil long Arraces attenses are seen and an another psychological. buildy in the weldeness processing and the second base them to be a second base and the processing dependent on assuming per lamin moorpacifies to the welden areas.

Librarity all foce damage and work does pactern Human range conceptual production of the second second second second production of the second second second second production of the second second

CREDITS

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## ACCESSING THE FUTURE

#### HIGH-TECH AFFAIR

Each Jonuary chaot 100,000 censumer adherments creatingen guther is Las Vagas to chech out the intent high-sech devices at the accural Water Consumer Bestreedes Show (WCES). This meatic Ster Sach In devoted to some of the more accural products presented at the 1000 WCES, as reparted by Ower Constitution Marine Constitution



## POCKET PC

Orgonizer I has all the features of a deshtop personal computer Offering up to 320K of subsurd memory, the Orempizer II eine eccenta plug- is program packs Itee shate at left for sufficited date sherene. It marfarms e full range of moth, selentific and address-book fanctions. medula ere evelighte, the CAL CETTE OCO and the YR. (5241.99).

#### VIDEO JUKEBOX

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office, change radie stations with bath bands on the wheel, Blasweekt end Risspend heve developed the intellig Steering Wheel to control the functions of products (such as the CD alayers shawn bales) and Blugpost colleter phoens. white some from eatherized declars. Suggested list price of \$995.

SMART WHEEL

Rece the here, diel the







#### DAT IN A CAR

The digital acelerators (RAI) methics in fixedly carding in the builted Stortes, and leadershy II's hall-go the read. Garies Corpercision pisses to have its digital tops payners available for physics available for physics with a stortes, accessitions this spring, ACCEDD maddi (physic). Access Available new ACCEDD maddi (physic). Access Available new Co SUAD. Stor Cardina Storty and Lato Accession Storty and Lato Accession Storty and Lato Accession Storty and Lato Accession.

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   Sold State Cleant Activities Outdoor
- bond attele Carpuit Activities Outdoo Floodilghts to Turn on Automatically
- Lights Can be Adjusted to Say on from 10 Sec to 15 Min with Auto Shutort
- Adjustable Arming Dapabrity Day/Night
  Sensor Assume Drily Night Operation
- Minimum Range 471, x80W Handles Two, ISBW Flaodlights (not included)
   Uses Exetina Wints UL, Lated Stre.
- Uses crossing wering UL Lettel San 8%/N x 11"W x 10"D

GAMES

NEWERS TO COLO PAGE DO

1 STRNGS It you put slowly the upper part of the string will break test because it must support the weight of the rock in addition to your put. When you yank the lower sets subdemp the meta of the rock advass the force of your put to act on the lower portion of string, which will break the.

2 SDAP Scep weakers the surface tensor of the water inside the loop. Outside it the surface tension remains strong and pulls the thread outward equally in all directions, to form a circle.

3 WEIGH Class B goes down morning glass A When you put your trager in the water you increases the volume by an amount equal to the volume of your trager tils as if you had added that much more water you had added that much more water you had added that much more

4 COMB Take a plastic control and charge 4 with static reacharty by rubbing right and pages The lighter bits of pages will and pages. The lighter bits of pages will just plastic the control issuing only the rail behind.

5 SROFM One mile Sound Itsels a mile in approximately five seconds The general rule is to court the seconds be tween seeing the lighting and hearing the thunder, then divide by five to determine the distance in miles.

6 CLBE Lay the wit sting on top of the ce cube and spinkle sait on it. Extracting head from the sting is water, the set mets the surface of the ce. The string then header on the cube.

7 STRAW Band he and of the staw and sip it into the bottle wedging the and against the radie of the bottle. The straw is strong enough to withstand a publi (on the interest seachon reside the bottle) and a pull (or the langer section yours holding) autor and the behavior and the langer these.



a LEVITATION Put glass rum ber five in the cariter to support the knives at you amange

them overlapping theirtips. Asyouslip the fourth initia into position raise the other three with your triger. The tips of all four knows end up stightly above the center glass, which you can their remove and place on top of the knows.

9. RULEIN You tragers will meet in the middle, at the 18-inch mark Whan the paratitick in unbalanced, the larger and anish more tration to the imper under that and departs more which be trager of the other hand movies mixed. When the thotion is equal on both ends, the ends alter refer insteing by small amounts unity our functs meet at the comer.

For more science fun with everyday obpath ase Mr Waard's 400 Expendent in Science (Book Lab. 1963) and Mr Waand's Supermarket Science (Pandom Hume 1991) DO



the west of the second se second sec

Off to see the Wizard: Making complicated science seem like comon sense

## GAMES

By Soot Morris

In the Filter and mark Sotes, Don Herbert was the science treacher we weeked with had. As television to which had as television for Weard. Hinthart brought science out of the dissoorn and into the kitchen.

The weekly Water MP. Weave previoes on NBD in 1961, and for the next 15 years counters haved baking-socie-powered reckets while secret messages in terror jucce and rub a balaon in their har and stack. It to the well

Di course with the show htmodilive lade shared the occasional inshaps as well. Once for isoarptie Herbert tred to use an electric coll to light is canale inscrise a livita

During show time the woli wouldn't light and the coll gat got hoder and hoter producing a moture of air and vaporaed paintfin. The result was an explosion that rocketed the bottle out of the chosen shot

Technology to one was hurt "incident says "But at that time we were doing be alread were were doing the alread show was ecled to wasn't benaries that the Mr. Misard show was ecled to wasn't be accelerating other just explained that I must have nearbornerity pattern the weck well What were olded our was the source of the stage cave laughting after the remission?

Today, with filmed retekes and obling such incidente are nover'soon by his tolow sion audiences. His syndcated senso of 90 second science updates for local tos. One



#### ANZ QUI

By these lien classic borns mithern pazzless from Mit Waterds inspertone 1 TWO STRINGS A mither paids from the count system that strong and another paids of the name screp hangs below Which section of sing wit beak het if you pail the town cond) slowly or b) quickly? Exhem

ands of a sevench thread to local a sevench thread to local a sevench thread to local a sope Fisal the sope or a bowl of water floogh the worke of the loop with it bit of accep on A:

every programs / New Mock — reporting shaned the prostigious Westing incide AAAS award for the miguitated series enco reporting wid Mr. Westrif's World, saturation of the calified charmed ackelotiosis incivities the lid lammation kids discipling charmed of kids discipling

Early World episodes included demonstrations of losorp, holograms, com putins, and robots. Because technology changes so repoly, however, many of tallar PMPU/ 3 WAT SOME KAT

and of increase a strategy of a party Give, 4 - 2 signey house that pate 8 What will report when you put a linger in gibts

4 COMBITRICK Borns, peopler is spinified on top of a pta all saft those can you use all poder combilito opparate the pappar from the saft?

 S SICHM PROBABLY, You see a lister of bightnoc (ind five seconds blogyou hearts flunderstep Approachility how far away in milos old the lightnoc full anka?

6 CUBE LIFT Try lifting an kop cuberwith a cas inch length of elving. Is a loc short to knot around the cuber What instrument the cuber What instrument the cuber What instrument do your hising to accern earth the first?

7 STPAW HOIST The challenge here is to pick up on empty soda bottle with a dayling straw without

285



suching the cutside of the solite how would yok

B GEASS LEVITATION Four knows are balanced on four gassess and ineysupport a fifth gauss at their center as shown. How and deve?

0. HouseHistube Beginese 3 yeardbock on two Ingres and streams with one Import and the other works that 22 meth mark What with hoppen 1 year move year fingers lowerd ascharther? A what marks will your fingers lower?

se segments quickly arrie dated. The best is turned out to be the dess old standards that if dems naaly lound ind the house.

The module and the schedule wile control necessity. We couldn't at fand beskess and Smeen burness so we had to result () jets and cancles age Herbort who at serverity are to place to retiro Mr Mosted. The admary people train to resons more accessible because the ap perstus dath Lettmadate lists into thinking. This is so ence, it's too hand for me. I can't do it

#### MIX BOTTLES AND HARD BOILED EGGE

Herbort has always been able to present just the night analogy or simpler dam costration to make compilcalled spennise isseen file common sense. In one dom outstation of an pressure Herbort caud a presided hard boxied egg and a milk bottle The challenge Get the egg into the bottle

The solution was to drop a proce of burning poper into the bottle and then solution ogg on top. The hot air respanded pushing out past the egg, which solved as a converse when

When the line word cut, the er and gases inside the bottle cooled and contracted misling a partial vacuum Atmospheric prossure then pushed the egg into the bottle with a laud cool

The domae of the mik bothe enclosured has called balance tables and appropriate obtained and the source and operange—sustantial for the the anexage appropriate the anexage appropriate provide the source of the provide the p

#### DROPPERS AND STOPPER

Holder has also adapted the Carbinal water denotification of stratuo of atmospheric partment named also phopartment named also phobetter that a stratucture despendent also photexes to maker the stratucture despendent and a stratucture despendent and a stratucture despendent also adapted despendent also adapted despendent des Pressing on the stopper recruised the internal water pressure The water level in the dropper rose, compressing the ar abovent. The decreased the dropper s budyinoty making it set.

The minute I saw & hergalan pitch to sock both I thought My God that exclude the perintra's for the Cartosan diver demonstration. Her bert secals, All you have to do is cap the bodie and squeeze is to get the effect. New observass, don't kinds New costraves, don't kinds what's making the circiper go up and down

The plastic bottle makes the experiment loss makes for experiment loss makes as By pressing on a rubbe slopper, you mght thris hat the downed push on the water causes the seacher in heat a downed fraution whether the pressure is exsined incremitin top, the bolom, or the adde

#### ALUMN WHIZZES

To so much fun warching look get excited about ecencs, says Heabour who has lead to contact with a few of the Watch Mr. Warch alarmin Former Mr. Waard alarmi Former Mr. Waard alarmi and pablicity for a toelument for Parents magazene, a speech therapest, and several activeness.

As far as Herbert knows, none of the show's children became scientists. "They were chicken for the show because they weren't science buffs. In better represent the average child. The same

We know of at least one coorphon, however, Phil Fox a rod hared boy who first appeared on the showkin tible, when he was only then years old Hea row a service meetspace at the National Instatutes of Heath in Betheods. Maryand Thoweved We Waard more as a television personality han as a specifical, but watching tim provided am accollent intoduction to the specific mather. The same the mather at an understandoldinteresting, and executing

Fox's younger brother, Bave impression developed an interest in sovietax partial smand is now managing rotate of Orace.

#### PENN & TELLER S LOW-DOWN PSEUDO-PSYCHOLOGICAL SCAM

Magicians Penn and Teller adapted the following trick for Orios, using the Visual Rusion Cards described on page 3 of their month's Whole Universe Catalog

Set up the deck with the back designs of the cards all facing the same direction (or example with the words at the near end). Put them in the box

Lie Tell your victim that experiments in perception trave demonstration different reactions to termilar and unformilar patterns

show him the box or playing cards and describe the contents. Tall him that you want him to look at only one of the publicities.

Take out the spital-patient card. Have him stars at it to "clear his held of vision." (This is bunk.)

Take the rest of the deck out of the box and spread the cards facedown. Then ask

#### him to select one

Tell tim to stare at his relected optical illusion Misarwhile you scoop up the cards and secretly tum the pack around so that the words on the back pattern are now at the back pattern and now at the back pattern are now at the back pattern and the back pattern and secret and secret at the back pattern and at the back pattern and at the back pattern at the

Have your workin rotum his can't to the pack is doing it in so that its back pattern is facing the opposite direction from the rest of the cards.

an overhand shuffle This will not disturb the way the ends of the back pattern are pointed. Call this maneuver

Hold the deck as it dealing so you can clearly see the backs while your worm seet only the tages

Show tim the designs of the cards one at a time Tell ham there will be a noticeable change in the size of his pupils when he size of his pupils when he size a familiar dupon design. Ask him to try to keep his systs unchanged as you show him the deliaeed rath size

As you show him each card, istate of the visits When you hadd up the islanded band, of course, you will instrumly see that is back pathern is reversed. Stop subter you contraw stating at his years. Act or contraw is atting at his years. Act or contraw is the change in its weap you think the is the datage for weaved it has ensuing of other the second of the other of the second of the the second of

In the stride of the to beach the were view in the stunt on his own—for a fee. Tell him the skill is not official and will also help him tol when compone is lying.

Take the victim's money Teach him the track

Plan trivity DO



## LAST WORD

By Joe Queenan

-DAVE -

On the testimony of a portable space heater, three alarm clocks, and a coffee-cup warmer, the government was able to nail such underworld kingpins as Irish Mike "The Greek" Siemontrwisk ® From the recover, that is associated applitassa analysis of the recensis in the Tradefact. In Selar Damping which may associate make the inselant barries and the selar discretion of magnetizing. Existence and expension of magnetizing isolation, and whether magnetizing isolation and and magnetizing isolation of magnetizing and magnetizing magnetiz

Firstel states through the were occurrent to a that if man could learn to speak with the applements the could obtain a remarkably entenable one halony of the large of our temberity in part (intentions, and unities).

Thus it was a cause for publication when bursau contremisioner Placen Riggerotal announced that its agency had charled the secont language of apphance by availabiliting contineurostation with a Mary Photomotister atmost 30 years (of and a 1937 Soarth washer druger

The Mary Product search machine through the Direct Crash and the The Ting Scheroper In the Const Crash and the The Tange Scheroper In the Constantiation The Tange permit recounted by the constraints' the Tange between Scheroperson (The Tange Scheroperson) mice a base searce taborecandly a stopmice table searce and the Scheroperson (The Haship of the Depresion), which is bet weat installando a very populate tensoritor means Damy dep

The execute drays reach target us, they have a tracket Reagners. — But experihandless and the tracket reaches the hardness rather than the tracket reaches hardness rather than the hard the hardness hardness. The other hard the hardness is that the hardness is that the hardness hardness hardn

The case half a late-scaling properties the Amoreman scale logistics with Recard of popular involutions, transferred tigs in the stression being pounded up intellingation, there is under to convert shares include, a portunitie taposo hostis, and an elevation confree sign source of the stression being and the stression being intermediate intermediate and the stression hosting and elevation being and the stression intermediate intermediate and the stression hosting and the stression being and the stression hosting and elevation being and the stression being intermediate and the stression being and hosting and the stression being and the stression hosting and the stression being and the stression being stression being and the stression bestimated and the stression being and the stression being an

And alian them was the UFK case. For decades, historians had been adampting to find out who was really losponable. for the least of President Kunnedy, Nov-Their many search bits 20 more signate resoluted tool gain root to Traven where from which least Flange Orweld Stachte, label data value in this indepletes where had been sold of years beliet for sparspart. But the least fland of the search to sparspart. But the least fland of the search to sparspart. But the least fland of the search to sparsmenthank in themps federal agress scored the context at reasonable that reingestor cebe is voide

The choice was discovered to part of the consequent affraver kineting to the Massacri of Mastern All. The arming was trained international affraver and California. The Fraces pump, storm an AP englished TAP beneficially model public tool energies and the storm of the the beneficial to an international to the other fraces and the the trained to the storm of the other fraces and the proper White the base have of the trained fraces and the proper White the base have of the the fraces and the storm of the the base have of the trained to the the base of the proper White the base have of the the fraces and the the the the the base of the base of the the fraces and the the the the the base of the the base of the the the the the the base of the the base of the the the the the base of the the base of the the base of the the base of the the the the the the base of the base of the base of the base of the base of the the base of th

Protectly, not many ploque careal alocal the enhyperiod's outer bits because at -this line articlectance, and meet in the tradewise observed the initial water ploates observed their washes barried as people haven't their washes and chevra which hearthy excessed abiguing. Darkweidner impacted of biging pacioos work adduced and dynches by any moles. Teensistic tackoe wells

At this port social anginesis steppedm with a number of suggestores. One was to disparagetimes in thick capes to that they couldn't see anything. (An Oak Park, Broces tim gate carry thing on Cal-Park, Broces tim gate carry the outwith a highly soccessful davice—tepplance binders (Another was to move all housethird applicaces to the with

But it was the Japanesie who saved the day when they unclused the Bianne, since of household applaymes whose merophosessing units had bean programmed to betwee like boace. Bianne and the bus and in tour, the entimentation and the saved on the twise studied not be used in the unit the entimentation and backsey, such as barmers American balance of trade

Doals on others of provid heapy socials of american social american with millions of american social american social american the social social american social of beat the color of the social of the social of the the difference is and the social of the social social american social social multiply to the difference is and the social of some difference is the social of some difference is the difference in the social of some difference is the difference in the social of some difference is the difference in the social of some difference is the social american american social social american am

Joe Queener covers the votce-activated Investigation for Reports