

ENVIRONMENTAL SPECIAL

SAVE THE PLANET A 16-PAGE ACTIVISTS PRIMER TO HEALING AN AILING EARTH

KIDS SPEAK OUT ON DRUGS, WAR AND ILLITERACY

\$3.50





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CONTENTS			PAG
OMMBUS	Data Bark		3
COMMUNICATIONS	Correspondence		1
COMPETITION	Hybrid Sparts	Scot Morns	1
MIND	Iclinite Servicite	Rosenarie Robotha	n 1
BODY	Mending a Bicken Heart	Bill Liverin	2
ARTIFICIAL INTELUGENCE	Computerized Creativity	Paul McCarthy	3
PROJECT EARTHSHIP	HEALING THE PLANET		
FIRST WORD	The World Economy and the Environment	Druce Debbit	
EARTH	Protecting the Rhimocenos Nepel & Conservation Efforts	Clougiae Starr	1
CONTINUUM	Bad Ar elo		2
SAVE THE PLANET	Problem Solvers: Scientists Politicating: and Children Address Reformation Comprised Danking Water Interney: Health Care Drags and Wat	Cathy Spancer Ellen Kuses Robert Fleming Linda Marsa John Cummings and A J S Ray	3
NOT IN MY BACKYARD	Conflicts of Interests Dealing with Society's Its	Rosernare Robolisa	70 66
HELP WANTED	Whiti You Can Do: A Special 16-Page Pullout Activiti's Guide to a Better Earth		loros locitor
LAST WORD	Hurter The New Hip Environmental Meximent	Tony Runst	114
HIS POWDER D WIG HIS CROWN OF THORNES	Pictori	Marc Laicley	54
OURRENT AFFAIRS	Pictonel Electric Spacescapes	Any McDonald	00
BECOMING ONDY	Ficien	Richard Kadney	74
NTERMEN	Mahemilican Nei Sloare	Anthony Livensidge	70
ANTWATTER	Test Rying UFOs: etc.		85
STATS	Cosmic Paleontologiste	Stove Nodia	94
STAR TECH	The Consumer Electronics Show	Marjore Costelo	100
GAMES	Onvigent Winners plus Video Games for the Hansed Adult	Scol Morris Bob Lindahorn	112



A photo of Emil Dean tobering adults angenut hur tuber addet Ginnin Dean do croats this cover. Properties do cauth and the need to team a sate and clean planet for tuby's orbiters. Dean caps

4 OMM



FIRST

By Bruce Babbitt

6.As populations have skyrocketed and technology has created new hazards, we have gaued the power to contaminate not just a river, neighborhood, or city; we have the power to poison the entire planet. An example of the second all not provide the second all not prove chemicals. And sea an incemission may the based of a hold of the second second all not provide the second second second second the second second second second second the second the second second second second the second second second second second second second second second the second second second second second second second the second seco

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The most important tasks however, to to use our leverage is the international eccessive to promote distillowinistial stagionistiality. We have that leverage in st least three anisati-market, ed. and dest. Consult The ed. ed. provide Is other countries. Why should the united States subsolve datars that nundete improvi forests and displace indigenous peoples? And why should yee parson regrouture priceless that nunhe and and dealog weldfal? Boloe auch projects are funded environmental concenters should be considered.

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The tryin cry sut for an international agreenteet that integrates, worklends economic and environmental policies. Such legislation could provide the first stop toward making environmental interes with standards co-lingue counties that to complex

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Bruce Selovit, lorner governor of Aneona was a 1988 presidential candidate

CONTRIBUTORS

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LAVE THE PLANE?

CONTENT MY ARD

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We decided to devele this issue to explaining the solid field that problems and offening alternatives to a clubicus have it would take volumes to hily activate the state of the world I valued in Steve the Parent' (sogn 54), we decided to contaminate on six areas optimized to charanting on six areas decided to contaminate on six areas decided to contaminate on six areas decided to contaminate on six areas contaminated of charanting waters are the size of theory, dugs, wat and illenary We enhance contributing content Riles Almons and Catry's Spawner written Lavits Menss Juhn Cammings. A 25 May, and New York Davit New reporter Nabort Filosopy for their expertise in each of au lopics. Their essel advants the posterior, them seek out solutions from sources ranging from potential and search's superior to the work's future twoors, chefution

"Most popule don't think that they can make a difference "seys Deprose who also passionately researched and assembled." Help Wented," can special 10 page activating cacks to a batter Earth. "We wanted to focus on things detrycen cast do—without specific a lot of money—to have a positive impact on the recryotiment.

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 Mathematician Nati Sisare's world of superspace is so remote from everyday life that the uninfielded dring to tem as their guide. Even experts rely on the Bell UP WEATER

Liste paneer for counseling on the digital-communication imports that bring Ote and even stretistics to list. And that following Bioane into some formdable tomain the mountains of upstate here took, where Anthony Liversalge accompanies from the highlar dimensions in transverk forces 786.

Using electrical costs assorted cables, and machine parts, artist Dave Archer paints potential dave factore costendard by Schweiskart and other asstonauts. Archer's spacescapes ("Current Attains" page 63) challenge the vewer to gampia what might exist fac beyond our own clanet.

Autor of the specific har keen Loss Sertary, source-form when Man Lossher conjunes (p on ellemate luxvers in the Dealer of Wig Ha Coren of Thomas. For Lastavis data of what might have beam—maid Amenan of airon the Revolutionary Wat—asim to page 50. Then on page 74, Richard Acatesy vesewes late of a women who said hard datase at Baccerina Orion'.

A note to those readers who buy down at the newstand. The material used to wrap this issue is plate made which correlates and an oxiding agent to high it beak closen takes and more of closelity—in a sign of his or to years is the most approximate wrapping currently analysis (which takes precise an even more scalegough sound property an even more scalegough sound property the in mode and CO



LETTERS

COMMUNIC/ATIONS

Power Shortsgo

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Editor and Publisher The Hydrogen Lefter Hydrogen MD

Sea Worldly

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Borne Sharpless Beton, MO

Dolphin Love

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Maggie Fox Hamilton, Ontano

Giding Lify

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- assistment Kapsiker responsel: Most of the solution of the service of an interfail avalance worked gets in the proportion of a large avance work early in this caser many agree that their own research was impred by it Whie Large also many have beam befaire, this lack of september data coupled with his unconflow interpetida security of the results, caused the petida security of contract the set of the data coupled on contract the set of the petida security of contract the set of the security of the security of the set of the data coupled on contract the set of the petida security of contracts the set of the security of the security of the set of the sector of the security of the security of the sector of the security of the sector of the sector of the security of the sector of the sec

NAME THAT SPORT

COMPETITION

By Soot Morris

A the law of the 1985 Social sources of the Comparison laws and a source source the combine way on more source to the sources of the Examples ranged from waldaring and welly table. What's next 1996 and welly table was an example to compare to party and sources of sources and powers in sources of sports party and compare to party and sources of the sources of compared party and was oncough the way table sources to drive Compared to drive the sources of the way on tables to drive the Compared to drive the sources of the

Sometimes the name of the game solid all synchronized damy, loboggan umping, transporter volkybail, and roler terms. Some of the sitest-sounding memotions included La lifea ter p1 weating, ful-contact sums water ballet, and equations terms.

Many suggesters whe made on her to onliver seating sports Peakan who find it boing wetching swimmers face in a straget line aniwagnesi elettotie underweter feets Offen proceed raw ways for divers to enser the poolpoin waiting in the earrier

For those who even to add a little potazzi to liter got general to it here techniques, dropping the ball onto the grave from a glittle, parachulog in n with all model tooles launcher or speed play in which the object is to complete the course in the inhoritet time.

Target shooting could be a theleng challenge for comprehiors on hostebace skets or in micker (A combinetion of skychierg and skets theoring was clevenly nemet pairs shooting)

Some radiates unknowingly Television sports frait advances water to a second second dense anticipated upcomp whether characteristic advances and a second supported human powers and unknowner teams, universe that such a costest was planned if was alkast the test muscle-powered submanie cases in the alkant 1988 search of more

Trovoved the contrait entries slong with tan Anhur and Path Taylor from Prince Manufacturing tos Achough jucided pamarily on originality and practicality some ontree got our attention of the state ontree got our attention because of the shear curregeournear or cleverness of their names

The grant post-winner gets a Windowmer cruse for liver. Of the two Lamest-squares has top live receive Phrone Response tomis raciosas: the this over a Phrone index and the fourth and this get Phrone shows A to a service socche copies of the Next Sock of Ower General

GRAND PRIZE

Beemming biseptiethees Although there were similar avalances on water sports, there entry was publicd practical onciugh to watered the granical price Distances are other mosted in the pool below the authors, or supported just above it. Compatitions areas through rengment tubles at varying depths, avait and under the set and popular cald the weter over ince of floats. Submitted the weter over ince of floats. Submitted to the point

RUNNERSAE

1 Desert Golf: Usually golfers try to diay out of the send, but not in this cerner. Using a softsal and cercular malike play is consistent on a desert oburso. Paylos gain points by hitting a ball through a worker or driving an opponent's ball. Sen in by George Paed Twentyrupe Parks. Da.

3 Greek Warner Hesethien Here are as events in the sond of the original Divincio Garrias that would have terned The skill of any Greek wolder a fact race (manthen or saeeplechase) awimming (200 meter heeetyle), sword lighting (sinang with sabans). Greeo-Roman wresting, weight ihting, and awide throw the accuracy Devised by John Hausen Zermenmon, MR.

4 Combo Ball. This one links rings, ju also and vehicyball flangs hang above two orders of a velocitization of the paralacestra fling a ball access a net to ecome on their opponents. Creased by Ruth Semation. Care, IN

 Boccarete Unles traditional accost pleyers can use their heards but only to lackie one empfore Sandard soncer goals socie ten ponts, lasade leiesthams unly one Censelved by Michael Sping, Colocoy Pain, GA.

HONOBABLE MENTIONS

Row of War-Crow teams pull backward against one enother in an elemental test of strength and endurance in the with Crossed by John Booker Pang. NV

User: A game contening Ultimete Fisions and social: I is played on a boporte part between two social games (but porte par game screet) and a right angles, two Ultimete game (price port per gal socies). Both a social ball a Fisione and a simulatineous play during the game Supported by Ayi Livrin. Heal Alo. CA

Balance Fencing, Swoschamanehip on a belance beem Picposed by Linckey Bater, Covington, DA

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EARTH

By Doug Starr

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The king's decise. Homs of plenty

and through an interpreter "I don't know why. Maybe because the rhino is so big and powerful."

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ISLANDS OF GENIUS

By Rosemane Robotham

The second production of the p

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Han Man Tapping Incestral momones?

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HEALING A BROKEN HEART



By Bill Lawren

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With mmore variations, this econism has been played out more time a thousand times at 35 hospitate in the United Shates and Europe Doctors learing Mysoom say it heads a new ora in the disposes and leathnest of heart dispose. The number one killer of adults in the United States—and hes 20 days. encourter instructions to send transplant to encourter and the send transplant to an encourter of the send transplant to the send transplant transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant transplant transplant to the send transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant to the send transplant transplant to the send transplant to the send transplant transplant transplant transplant to the send transplant tr



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in collaboration with Khaw and his

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Doctors are now conducing the linear phase of cince table of hitsisti and Gerkeen of leads to person get TDA september 2011 (1998) and the set product by early 1691. In tests at 75 homeset societ encironary light for accusably migrary cicles in patient's logicanceal test and a table at the barry sources accusably migrary cicles in patient's logicanceal test and a table at the set of the conduct society of the set of the set of the conduct society of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the dimensional set of the set of the set of the set of the dimensional set of the set of the set of the set of the dimensional set of the set of the set of the set of the dimensional set of the set of the set of the set of the dimensional set of the set of the set of the set of the dimensional set of the set of the set of the set of the dimensional set of the dimensional set of the dimensional set of the dimensional set of the set of

Myoscint
 ights up dead cells on the
 gamma camera
 screen, allowing doctors to
 see where calls
 have deed and how much
 damage has
 been done to nearby tissue 9

In the contrary primes Dr. Aleas Alea deader if insider metione at bit Hoppail of the Useenby of Inversitients Distributes Fibrican may ownable be used to observate wholes models and "Dopermental evidence indicates the User and rain to use to catect orders in the heart as well as the deap versities. The beart as well as the deap versities to be able to see writter they have usercessity deaded the closes'

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Berger is most excited however about a series of monodoral antipodes The and the collargeout input elevations to immige the advectorities (pages) that leads to name ad atmines collowings on advectorial phase at allows consolid systems and an advectorial phase at a service and phase at all phase at a service at a service at a phase at a service at a service at a phase at a service at a service at a phase at a service at a service at a phase at a service at a service at a phase at a service at a service at a phase at a service at a serv

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Barger tableoid the test for deputy could become the targer pactual measure of seaming the attracted of high mekpatitions. These which is particle at deputy heart attracted or whose assume choice inside cause tage of the - to assume the parks or other targer targers and its bare of the targers agrees and its bare of the targers agrees and its bare of the targers agrees and its bare of the targers targers and its bare of the targers targers and its sector accult presente the meak is the secption of the target targers and its proceed to could infimiately target out the sector accult presented in the proceed to could infimiately target out to bare its them of presenting targets and the sector accult and the sector accultance and the sector accultance accultance accultance and the sector accultance accu

The development of Meyacoth Friender, without the representations and many without the representations and the median with a low many term to make a metal the representation in cost their productive and the resolution in cost the productive and the resolution in the productive and the productive THE IDEA BANK

ARTIFICIAL

By Paul McCarthy

ow does Roseerne Dan or any other proleasional comedian for that matter, set up a joke and 'What incapers the idea?' aaks real

Twelve years 250 employees and growand The Ideafisher withmore than several thousand questions-all of it designed to skr the creative paces. The stormer Fisher says 'It makes us botter

According to Fisher, our lorging don't close bul under food ' funch' good

IdeaBark of words and phrases. Twenty 000 associations for mel Scatlett tage, builtights and torked pink There is no secont to the adaptional

Fahrry for sheet? This their basis program will help you make your creative concepts flow

Figher save. We are just organizing the human language in an orbisty new of words culled from dictionanes, words associations are ananaed so that unlikely

word associations tragger answers to

Patiekos, public administration and teenagers crusing the downlown area businesses that gatar to young people

living breat. In the future he house to in physics, engineering, law and Good ideas got us here. Great ideas will determinen osar huture "DO

CONTINUUM

BLOWING IN THE WIND

cumean you can trust go to the factory with the teg gast productschal blowing such into the air lack in the door tell them you're the Feds and hauf them all off to sail like the Gimen⁵. I advice

"It even only that easy John Tilman, director of Washington operations for the Office of Air Duality Hamiling and Blanchods at the Environmental Protection Agency (ENA), sold as he calcided out the window at the Washington DC (Mythe

Bee that enablemate offen the distance? See where comp out? It as store in Hermitee: The Baned back to real Transvore heres they know where peluliens is Suff might can back to the set are hermitian as any back coors the two level policient formation when surfact is maked with reference downleared back appendixes enabled in enablematic from all approximations.

It's called bad back back to the in the opper atmosphere that available is from the sun in harmful effects. A lot of our job is pathering data so we know our prolease in dealeno with the most harmful pohlaritis final

We call how a long ways to be on scalars, if is childred to be an explored and the scalar sca

The EPA has proved to be anything but gatgbursters. To deb the agency has done Het about the more than 2000 relational plents ground the country that plane cannot nake at leads in each 1000 measuring to a survey filled to a survey filled acceptable. And accounting to a survey filled Wainington Plant acceptable. And accounting to a survey filled Wainington Plant acceptable. And accounting to a survey filled Wainington Plant acceptable. And accounting to a survey filled Wainington Plant acceptable. And accounting to a survey filled wainington Plant tends. Applicable and accounting to a survey filled wainington Plant waining the State State and acceptable acceptable and the State tends of the State State acceptable acceptable and the state state. There is the set of th

Could the agency be boleased by a story armed come elegipter leas a Espar Hoowar writing to chase down and lade the crep out of our mejor poliuters? So do you guys keep a most wanted lain lea the PR? I asked

Triman shock his head no emberracced by the trought

He handled me a chill loding booket snitted National Air Quarty and Emploids Transfer Report 1997 (the most recent provident and provident and provide work at the

After a two mentions that and up a rough score of the verter areas in the UNEXE Stores for an polition is socieding to the highest quarterly meaning concentrations of politikithis in the programs per ability makes the Usas Measure was number one Browngham, Alabama, two Gary-Harmond Indexna, Inse, Description, Netherland, two Phaseback tas free theorem Domate New Yeek Inter Phasebacks.

Dan tyou think it would do some good to list the Who is Who of worst places to live?" I said ipushing Talman to the mat. That t most times as the people who live there to deen up the places?

Well we don't like to port, hence he card het only well bet the percess of cassing the EM—to port forger—but contenting head dard in him and pertags in all of us since Earth Day 1970. We had takenold the EMs registrance to force the Dard head we were taked an introvers to the suit in Nocimi count against the EMs to failure to portain to dues. Otwouldy a torre we manned areas — a EURWYO MANN V.

CONTINUUM



When do a specific where and a pysical the first or community but we sources of saturable approachs, but one is prohomer to use and the other is prohibitively appendix.

SEEDY BUSINESS

The costruction defectes and secondepose inclusives all sufferred a hosely blow in the early Seventee when the aso of spore whate of wes banned by the Endergered Speakes Act. Sporth whate of Ass valuable as a lubiccant in high-templeralises highprobacie on even contraints, such as engine transmissions whill extreme temp

An alternative of made from the seeads of the pocket too is an adequate but as persive subsitute of class But a record breakthrough -- successfully clor rig jojobs trees -- has been made at the University of

Himsuid Napo Isakisr of the popular bestern ham says that only the ocentrelics raisely cauld affand the neurally production of The od wells the 325 to 540 a galaxim many bacause of low saved yield a prediem that ocenmetal popular phw is made been bying to solve for years UCR scatterior set cloning the Isamila popular diveloping to start that produces more than 4 COI pounds of seed por acre Commercial growers now ge no more than 500 pounds

Increasing the model of the model of the model opposition in the model opposition is than many growwar under direct business with under they planted there the wild explanted hear the wild explante hear that profitable crease how wild set of We tool for many genentances and set of the fail uniform yach? says Nakyi Hour wild take up to five plante to produce usable percision — Garciano Notice

BODY MUSIC

Singlion a headband and, a couplie of amfannas, close your oysis and start wearg your hands around. Prestart buy're maleng basuthal muaic weh sait the motions of your body. Their the promes of Biomuse, an electhoma music system being devel opaid by research from Stantost University.

Lusso believes the dotrue can find to be used to give voces to the audity. Interference of an animum device for diffeties who would then to acts to family facts to their bodies, and table of host back to act to their bodies, and about the set of the path reference any table to the the body as a symptomy of nice body as any motion of the table and host the table and host the table and table

Seconencely Fem disposed to harmony but organically Fem incapable of a time Challer Family

MICROMACHINES

Measu macorreatines uso arreft to also percense to make their importance for mail and the second second second care (they fields Rester type devices could be used to over a bagged anterweb to enourly surveillance (ministroflying robots the sace of orders could performant

Californiae secon has been do suid of Annocas mooimaches tabui on hask do a human has not hask do a human has not back do a human has not back of back of california. Beneliky du met as may be more versable, according to a term of neosathers at the University of versablenes at the University of Wisconses in Madison.

Select is somewhat before controlled Penty Clubble professor of electrical and computer single-sensing, and to city one instantial Wore coding to examine the pecchbales of the whole terriny of models and thereight even is control territy of the territy societ instantial models parts the says methic should had up before and actually.

Initiation case, this issues in a Watersman entrum memory is deem in extransmanning and for making integration of institution the byte of memory and the bit of the state of the entrum of the state of the memory and the state of the the state of the state of



 Reuban patiel: Tkel may not be a by you kear twozing in your ear but reis occupie mechanic planned for the future.

High energy X rays, crucial to the production process dome from the university's earch internal laborations

2) Generation sciencists para synamics fram approach coaled deep stidle. Xing knoppetry at the Nacional National Control of the Nacional National Control of the Nacional National National Context in Kalifaruhe. They make masks in muchan draw usabilitin nuchan draw usabilitin nuchan draw usabilitin nuchan draw usabilitin nuchan draw water status of usanom half. The Waconum packs of allowed per masks where suffering the pussion where suffering the pussion where suffering the pussion where suffering the nuclear status of allowed per masks.

High energy X rays crucial to | BACKYARD BUZZER

New hears good news and bad news shoul horne aloss. The good news a University of Messesper physions her davaad a anole alare shoo contraptor that detects immend herd ent The bad news. When herry basis a larm goos of you'd batter rus like helf. A means the tomato is alborth oneter your backgatd Boss setsy that Korrido

warrangs are so converon in totnado alleys' like the Vesseappi Dalta and portions

of the Michwest that most people just ghore the

You can't ignore Beaus alarm it won't sound until a lornado is only a few hun dhied yards away. To says You'il have only about hinty excends to seek shelter

The device work by de locking the early sound produced by twelves. Wrive studied the only mee sound recordings of tomadoes learns for the isocurse ther recting of the isocurse ther relatively we we denined Base explores.

The isonado detention which Base expects to maked in about ten years, will cost less than \$100. But you'd testant have a prior none of these devices. When this, thing goes off ' says Bass a tomeado is in your tasgipard — Sherry Baker

The more human beings proceed by plan the more effectively they may hit by accident

---Foedoch Dunenma



While would you do with 30 aeconds to spera?

CONTINUUM

CREATURE FEATURES

Theory parameters have been being us for some time har ware where we set RNAW lackages finale (Roman of the Linversity of California Daws has disovered hard non species of calappiliar Harmity local; two is meeting Marentaware of the appicate to researching alterning or what they eat immediately also fair they eat immedia

In spring, says Creating cold (recess size) hurst sets, of gratien, hursy male favore cold of collers. W enconstralarvae that helich in the spring set the collect, if the from golden luzzy and with their golden luzzy and with that look very model like states and sets. In can trast. W enzonena larvae that heter in summer when the calors have abady disc out cat call larves and proving to be greenally gray and alterny—looking in other words put like twigs

To pasamenese which or close alone is reportible for the chinemons, Greene insideed eggst goograp of M anonsers in the laboratory and subsocied them to defare in and dies. Sure enough only deminische any defarenze in the consistence (altrade appeerance)

Greate catrocyce capter, why this is so athough he tends the general for the two different appearances may be responding to difference in the potion levels of his two food sources. And he bays income the development of gueen tess is

"There are two kinds of pacple in one a Me—people whom one keeps washing and the people for whom on whom

-S N Deterras

SLAND WIPEOUTS

The resize of intervals a proup of nine elands in the Boyds Nacho, gained its indeparchance suit for years op. Build predictions about the greenhouse attact—a global warming due to a buildag of carbon dicester in the infrastyness—as appotes mans and teach with the reat 100 years will was the Tavalu nation off the face of the parth

The protection is obtained to the process of the pr

The Bull parts to also writed statuline more posperiors and loss portable particle and loss portable parts of the set and large- ere Separates and the Mathema in the Indah Crean Bot warmple or even warm of Haware to Indah and the set and the set and set and the set of the set and set and the set of the set and set and the set of the populated weathy and ware set and the set of the set of the set and the set of the set of the set and the set of the se

The most deveload drung of sill is that millions of people in the poor rosintonia wile going to starve to death before out very eyes - span our talavation sata?



Look before you can this appectes or categories we groe "I have been one recal the main is a crock between fuzzy towers and alway twigs served the come been



Processing and the ansate of participants of the second participants of the

PIECE OF MY HEART

Every year at 000 to 70.000 people need a heart transpirat but each year only 1400 hearts are available. A hopeful alternative, any a Partiae University researcher is the building of opero hearts from the pelentific own bodies.

What suppore do is construct an existing pumping chamber calified in asset yournels to add the original has chamber and the original the anian of the heart. In a typical operation, a subject mapf a single conventional gails material into a heart chamber ways to in music from the patient is on body, and connect the whole assembly to the heart. Regard the new hearts contractives would concade with the weakaned hearts resting phase. The process could te duce the workload of a weakaned heart by as much as 40 reserved.

At Purdues a Hiteribrard Biomedical Engineering Center Dr. Stephan Badylas, says he has tricd the replacement lectrinaue on 150 estimate and expects to see in particular for uses in humans in patient for system.

Passetity surgeon have performed a related operation called catchemysplexity on propin. The ideotors take a vector of muscle generally from the palaents back wrap it around the heart and motel a pacentilier to load the muscle backing in syn charger with the heart. So far30 people shound the works here undergone this expenmental procedure

Both mattods avoid the tassue rejection that comes with transplants and the infoction and blood clotting generally associated with anticeal hearts. Badytek says —hierry Wool

VOLCANIC ICECAPADE

The contrast between for and so had behaviors in the phone has wearydring barn. Hereassance waters of high karn. Beauer Freat New astronomess who cludy closes of high source of the phones of the mocres of the high source into any other methods of the phone and the appear and the phone of the mocre high an unservice phone phone into any other phone p

Devid () devices the device of the device of

Program tank of this as being solid and brittle he explains. Then see cube twis out of your greas it beninks but see can flow just as it does in a glocar. The pool iem is that at the supercold temperatures (as low as ~2007 China convertion on Are

"Nonsense al good only because convince perse is so brilled"

The best of mers is he who

- Constanting



Do the gods of Likence

CONTINUUM



all a state and they well the

FILL ER UP IN ORIS

If and when NASA over sends men to Mans they II need more than pair a space ship and me they I also read keel To thet end NASA plannes are working on an orbitry gas station of ontein hall depoil to storm liquid oxygon and liquid hydrogen.

Interpretation would have most likely hang out in low Earth orbit, would have to hold enough likel to gas up a spoceship for a fineeyear mession to Mass and book. Fluiding such a ship in orbit instead of on the earth in reconsidery blocates we interaction of both the ship and its fuel cut of the earth's granty. And through researchers alleady have the lectrology to build an obting ball statem there are sold some index problems to poke says John Markers, a Malt and the source of the source of Malt and the source of the source of the source of the source of the source says John Markers,

For indencial the load clatter will need to be reinspirited insultated when it is in the shade. The tarks themselves will need battlos in them to mismice aloshing. Them here as the problems caused by zero growty. For searcher in 240 caustly you can i weigh a bork to determine how much fails is init Works because liquid fosts conventions peringing gesters work te does not ho accelerate the term of the does accelerate the term is giftly changing an attract growty ac hith the fails all softs to one accelerate of the tank and can be peried out.

As for the fusit shall N40A, will probably ship it up from Earth at hur. Eventually mough isosistists hope to estilate oxygen from funal soul and process it vito leaved doggen — Dovess Pino

Landon e a test site parce Landon for a men s upper Tember 4 he has constant units on the geoind floor " — Obver Wendel Holmes

I now perceive an immonae onsenon in my Psychology The deepent principle of burner nearing the craving to be appropriated

GENETICALLY ENGINEERED PICKLES

Demage caused by outbook isometazione processi (CO), isometazione processi (CO), isometazione processi (CO), isometazione provide processi isometazione and anno antitra isometazione antima scientta in a condenenta scientta in a condescientta scienta antiscientta scienta antiscientta scienta antiscientta scientta antiscientta antiA term of scenario ted by inany P Bening specitrany P Bening specimotoring celecting and improving ammi of Laccocoalitiz planatinum. The backnumber general periode the function general periode the function general term 50,000 gallen open toppied with with integers to chine of the carbon choose in the period bits with integers to chine of the carbon choose in the period bits action choose in the period bits action choose in the period bits with integers to chine of the carbon choose in the period bits action choose action choos

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-Bé Literan

CONTINUUM

HOVING E YES

Saying that a solution see is like soying Googo Bush can play a furly guite There are some basis axis hores, but nother is ready for the big time. While a take of Rochester researchers can de nothing for Geoge they theik that they can hap the robust

Generative scenas problem construction and conbenerative scenario registration below a scenario registration of the scenario registration of the construction of the scenario construction of the scenario construction of the scenario construction of the scenario scenario construction of the scenario scenario construction scenario construction of the sc

The Recharge group also clams if a on the with lo assving another tricky vision peblom called verganot with you do when you vosally a ack aometring moving loward you. There robot uses a last-acting computer pregnam that can keep a pair of tobo greet—moticpowend carrier ca—focused on a moving turnet.

Whit the Rochester loan is hoping for is a machine that can instantly metallitie and respond to what s hap are own



Chara I many and a state of state of the sta

pening around it. If they have to have the space party reactive "thering games" like wepping a roamful of ballions skift by burttping them back, no the all with its head.

Computers are usoless Ney can only give you rowers '

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historian is a prophet in https://

-Friedrich von Schlegel

COLUMBUS'S SHIPS SLEEK AND FAST

The three saving shop this cannot calmbus and his other to be New Word in HBZ wern not the certrace builty square regens to protect in most hetery book furthers his cost called address his cost called address his cost called with the cost of the certical without a cost of the certical in the open costs his should be dealed south to should be called and the certical is a cost of the certical be address in the certical address i coldensis at other range Characteristic type of separation of the parameters and separation of the parameters and the separation of the parameters and the separation of the parameters and the separation of the separation of the matching rate been separation of the match

Investion thing some of lines good in nautical knowlcode Suments stong with loss Darting and other codespues studied the writeks of two Remini shostion the period that key puried in the Catherine See near the Bithemas

Only about tan percent of the tutinemaned of the inverset, reports Overting But before its keel rotted water it wore a grows in the messione bottom, so we could measure its length

EXCALIBUR

MANANA III

WROUGHT OF STAINLINS STEPL. 24 Karat Gold, Stepling Silver, Hand-set Crystal Cabochons, Insekted in Crystal-clear Rock.

KING ARTHUR, Immortal here of medicval legend, he was the only one who could free the margical Excalibae from stone. And when the most famous king of chronicle and romance wielded this mighty word, he became inviacible.

Now you may own the authorized eccreasition. From Europe, its blade is wronght of transpered streel, its pommret and eronsquared sculptored with Arthur's symbol of power – the dragon. Ablaze with farey red crystals, stealing silver and farom its crystals-clear rock only by the nam destinged to gooseos it. Se75.

The magnificant hordwised intered display dependential from the second size of \$100° high a 1600° wide - is included or no additional charge

Facality shown resulter they retail length of 45

AN OFFICIAL INCE OF THE INTERNATIONAL ANTRUMAN SOCIETY.

The International Arthretical Society

Fordian Center, Penneylyczna 19091.

These enter my order for the authorized in crusteen of Ring arthret's feesibles sweet, Cu find of hardpolisised tempered steel and embellished with stelling three ond 24 kant gald elempians. The contend-temped display is initiated at no oddteend tear.

Treed and no many new I will be billed in 10 equal monthly transformed of \$87.50° much, beginming process shipment. The proceedings

nature	ALLOW MALLING MACOPULY	
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ARTICLE

Will tomorrow bring a silent spring or a brave new world? Six journalists seek answers to the earth's problems

SAVE THE PLANET

we look up to see the hysterre At ought we page at the stars. new moon, full moon, or no moon alarmed by the number of people at all during the day the ain bleds or browns us, while by But if we're not careful, if we re not thread that if we're not. our vantage point-this Earthbeings, at some of fried problems and their suffering The earth's in service trackle

turnen sewace and an enderer without any sense of what we're Iberro And vorse, we're becoming nearly illerate, unable to read technical manuals, high- an innocent man woman, or actical laxbooks, or billboards child to set them off in log many

From the variage point of Earth on buses, to say nothing about together form centerices. pasacratics and sizes-right us about how other people ing feed our dreams introducer tools we world be able to underplethors of problems facing us as we move into the next century. problems. Some of us carit afford to onl rack. Whyn coll criter highly trained medical researchto change that system we consider the problem of war onflows adred the bene

PAINTINGS BY MARSHALL ARISMAN

 By the time kids reach tenth grade, four out of five high-school students show no interest in studying science or math.⁹

the sounds of automotic infasi or antilary lise. What are we handing off to car chidrens children? Mayte the class of a pascellal world is an illusion, a fartasy of people who just don't understand geopolitics. Pantages these popolities read too much.

Lately science has been portrayed as the great vilain, spawning death technolocies, wreaking haved with the atmosphere precontation of health his restly. true Surely scientists now know that they will never scrutnizing the conse found But the nonscientist pointing the tinger of blame at the community that has bles-with the coods, the Mersovic we waread. Many of lifter. We can ourb our seemingly endless deare for



things or there may come a day when Earth will be no more That's not appealyptici-its not a scare tactic That message-save the planet-a everywhere fishing from the headlines of daily newspapers, on Glad garbage bags UN stuckes the intend reports from Westuncton Paris. Tokyo or concerts. Out of the minaid issues that confront us our journalsiti lackled as technological and human diammer the necurfy of our health care system the state of our chinteng water the age old horror of war the alterning rates of delonastation and neuropy and glog abuse, whether it is on the stock exislation they re-proposing to deal with saw lead in our wear Scientists tell us, arrong other linings, about Project 2061, a national program to enablishe lifecacy. And some kids 19k about ing their peers in remodal reading programs attending classes after school to further their own education or collecting rain from the playaround to lest it for actitity. Once upon a time a and children would lead the strance menagerie. It could be time to take a chicle hand and tokes - Mustry Cox

TEACH YOUR CHILDREN

to seep this taken how make the the beatylets certary we need scientific know and we meed scientific know and we meed in scient. The take. Find 450,000 scientists and engineers in felds as diverse as astrophysics, infinitial medicine, and teology and find them over the resk low encohad jeterty of it but now were starrig into a dry well. The number of teorer of teents.

This hardware of wereyhockystar-olds gatting undergraduate degrees insolmos and ergeneering hardchanged in 15 years—40 lo 50 structures out of werey 1,050, according lo a National Academy of Sciencos (NAS) study NAS predicts that figure will do by 25 parcent by the end of the Ninaties. The purcher of science and ergineering astudents seeling doctorial degrees has fallen 50 percent secohar tables 50 percent seco-

preventing and on tight, action and policity of a sevanigen year-olds can t comprehense them taking on the whether they tended or one

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"Weil' downey Englend and upon put the children through more righters books an anit and the base serences, says bits W Juggeron to declard in larvast Unwahly Program on literating and Econome Holy. Kots the more carece allabet occurs in according and/or is not tooloon on literating and Econome Holy. Kots the more carece allabet occurs in according and/or is not tooloon of choose in all acceleration and is not tooloon of choose in all acceleration and the tooloon of the statement of the statement of exceller occurs in the statement of the state basteries for occurs in the statement of the state basteries for occurs in the statement of the state bas-

To remody the aduation initials of the American Federation of Teachers (AFT) propose that elementary S2000 (seachers also mith and occurred oburses to quality for their teamers. But the proposal well-not heip immediately says After Stapfier. AFTs property, because revertechness lisks adjouts mith and toeson oreadmiss. East Tepsozens, orveitre of Hanard's Stormer Tepsozens, and the Ionardy science Technology and Publonardy science Technology and Publonardy sciences Technology and the tomate sciences and the surplex of technotisands in accross terms? In sup. "Soantic filteracy tects on that Unsays technology and the acc to technology technology and technology and the accrossing technology and technology and the accrossing technology and technology and the accrossing technology and tec

is order to stop the triphtenico tread Congress, corporations, futurists such as Maryo Celton and schooleachers are supporting the drive to achieve national scientific Heracy In 1985 the American Association for the Althout Celleve of Scienos (AAAS) lacked of a long-term propram called Protect 2061 During Phase I first defined the trace of the monetern With Phase II now under way (projected completion timer load sparse letting of educators and scientists are seeing ton programs and descriptions. Esting five states-Texas, California Goorgia, Wisconsin and Pennsylvania-are par-New York and the Maloo Doundation provided period function for the first mase IBM has amount to furnish commutors and software for the second phase

Write public pits learns logeline now write public huberting, have a built of the cloudsh officer. Teenty-free people will cloudsh of the receives and a hub years at each status. "We're not relearnsh climited activity and creating, steam." Die stays "Statiffike Trials to understeam the people the statight of the state of the state hub second and the state."

Congressmen Dougles Weignen (Dmemory on Science Besearch and Technology, called the AAAS present an close the gap in science education Members of Concrease alarmed about the next halls to mover our nationals antipole Waleren supports legislation to create a national science scholarship procern supervised by the National Science Foundation Exceptional math science vitroduced by Congressman Sherwood Roehiert (R-New York), propriors to pay federal scholarships to top science math, and engineering majors who consent to treach two years in public schools for each year of functing received

Scholes, at the Educational Testing Service claim their academic performance garubal improved if teachers and



perents domand more from students and show home states in accence and treats because and columnist themas Sowei says Americans are mellectually large. He biasts schools for letting students gradum wathout vertices and people gradnor such panel large of the universe as relwhile or the concept of medies.

In this forthcoming book, American Renassance, Marwin Cotton suggeds beyond ways to jump batter. The suggeds American oducational system, netucing increased school budgets, more beach ere, longit school werth Graver use of computers in the calassecers, and a structure and can even them.

This involvement in Project 2001 is but on on example. J Arguing, apportation of apport 16. Fee animitematic yolitation (HM, Charles, and Feere web choice metry for using and appoint of the provide states and the provide states and the top-rate interview and the top-rate involvements such as MT and Sendral Petranet Cosponsion, pays up to fain and similar and and the top-rate involvements and an MT and Sendral Petranet Cosponsion, pays up to fain and similar and and the top-rate involvements and an MT and Sendral Petranet Cosponsion, pays up to fain and similar top and the fail and sendral sendral multiple top-rate in the sendral sendral sendral provide the sendral provide the sendral sendral provide the sendral provide the

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The same enhusion resides in the public school, says Stanlay, Spepro in science and chemistry Teacher al Medwood High School in Brooklyn. He madhes three chemistry and Teres science research classes daily Nony of the subsets who exceed in this demanding classes alw accepted at premisurus and versities after galaxians, revenually bacoming disclose, scientificat, medical haport police declassion in this occurrity aspecially in car science classes; "Bragon Signs" In Lagar, when 'We laborated same reve and commission tens to bat agents, in science and commission tens as bat agents, in science and commission tens as bat agents, in science and commission tens as bat agents, advect, who are science classes are baget to be elegicificat controls.

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oplined if this country is going to remain powerful it's going to need the best sciedicis and insearches?

Harvard in Brangcomb knows the socolor education stortage a extremely servor. This modern technical worth cut tooks are geting servative. When the look pet smarter we must have poople properly smarter we must have poople solve the pottern of sourceffer intervory, we will feel its effects for a long time to come." — Robert Florman

LIVE AND LET DIE

"Our current system of inself-case a not fire if's not just and it's not the morally strong system this country chsovers. Surgeon Ganarial C. Sweet Koop admonished in a commercement adclass last May On the eve of the reterment. Koop warried that public expectations of modular area to support takons of modular area to support at ability to pay for them."

The statistics underscore the chilling fact that the United States health-care system is cuted control Resign at two and a heal times the initiation state the instants meticical bill will total a staggening \$560 billion this year Yet circles say wells not getting much for our money "No other country in the world escent

South Africa tolerates a system in which the state of a tarrelys health a deler-

minimal by the size of the lamply wealth's Sender Elevent (N-Messechuserby tied the Sender Subcommittee or Hanks for Familie and the Uneared last June Mars Hann 37 million Amerodres June Mars Hann 37 million Amerodres Jane Mars Hann 37 million Amerodres Jane Mars Hann and Hann Amerodres Jane Mars Hanner darit Incove priretati care during the first Immedir of Spergmany, And Some adult Streng in mpovented rust areas have mere reven seen a doord

There is this evidence, monose that many of the doction-and eccentremarches of modern inediation actually perioding its. Amazera have four times a cost of monthan 10 belon aways in the a cost of monthan 10 belon aways in the a cost of monthan 10 belon aways in the a cost of monthan 10 belon aways in the times in the cost observation and interest in its expressions when its and there in the location and the interest in its expression and the art in the cost observation and there in the location and the interest in the cost observation and a server them one born in the United Select in any Robust Jam, whose were on heat locate source guided in the form was a covering of Costneon.

"Health care is a fiscal black hole in which we pour an unjustifiable amount of resources." Lamm save

Globally the outlook is equally deturbing Although medical care in some Third Workdowstretes modernessity Others has migned packades resema Soyan bohorevolve inner direktations and other horevolve inner direktations and other of developing outstate is developing to developing outstate is developing against actif preventible desaues as encourse enterback and and the term AGS experiment frame dament for the same and the same and the dament of the same and the same tax and the same and the same and the same tax and the same and the same and the same and the same tax and the same and

Even cares because the descent internation as a system of seasible mediane one consistent an endplaned mediane waters as system to the construction of the system of the second second second and the second second second second equate procedures are defined in porteacing and have a second second profession as a field before appendix profession as a field before appendix profession as a field before applied profession the basis basis to the basis

picture is Canada's government-funded

Internal hoshi nazarace system. The principal diffusione barriera the Canclan and the Birnsh systems is hospital sourcestrip in Consoli Ititatis hospitale and also laver than in Canada boccuse the government operative average states. The Canadian government controls modell fees and the purchase of high-leads fees and the purchase of high-leads regurners, and ashi powers regolnt metabul and hespital associations.

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An endloss number of economists, polyloans, physicians, and health care



poloyaeken have been stymed in her styrreps to cut medical costs who is sacrifong quality and accessibility But we are herefed for disester, Kolop and other experts warn if fundamental changes aren't soon made in the practise of medicines.

Former Colorado governor Lamm befor stern, perhaps even Dracoman, measures. 'Medical expectitures anticripping the economy," he says smoly can torowck even one with all the health care that medione has developed. We need to set priorities in the allocation of resources "Lamm argues that it makes more sense for example, to provide prenabel care to pregnant women then for pediatricians to fly sicility newborns to million-dolar recreated care units The price of vaccinating children, prowding prenatel care to all pregnant women, and giving everyone basic health care can be offset by reducing high technology medicine," he says The mbe funded by territing other areas."

Director of the Center for PUblic Polity, in Denser Larm proposes a nucleai instructuring of health case devicely along the lines Canada pointerned. He also advocates colonizy some hospitalis, replacing turb high-facts medicine as loading delytes, peermelour infpiantation, and organ samplaaration.

We're engaged na wusselul llechnoogy noo. There are more XPL toanweis, tor earnype, in Calorado and Arecone there in al of Engand. 'Larme age, 'Rich haftech area o foucees and the failing to age for chances of souccess and the than onboring care based on the stalling to age who can no brage pour phromomenial insources into poople for whom there will be no hangy outcome.'

According to pociatrician Barcasa Sartiaci had to the dwaron in head page at cores hopper Lineary. Sance the dwaron in the dwaron in head page at cores hopper Lineary. Sance the dwaron in the sance at the sance at any to entranse administrative weath and any cores accounted with the core medications, and other uses they vaing records on the production and deplaced, which is no others to come the production with the come of the production are most filtering. This is an easies which we can be product the sance and the production and the sance which we can be production that is an easies which we can be product.

Alex Roman, an eighteen year old senor at North High School in Torrance. Celifornia agreeg with the idea of a centralized data bank, so we can better undentand disease. And with Linked to data banks in other countries, The says. Twe can all sent tiom calc) other He also loads lowers to computered took to delect doesnes in their way early stages. 'If a computer spots challocal changes mout bodies, we can our our solves betwee we thoughtputs signs of sheas. And partaps we will seen have monitoring devices we can use show?

Neeth care may be reduced toward proventive moders " Right now, the locus is on the management of disease safere han to prevention that we can make the most dismatic instruct—with the lead amount of management and the lead amount of management and the lead amount of management and the lead the operation that we opermitted

In code of earliers by the prevention has worked with runses and doctase to dowlog programs that toous on prevention rather than high leach care, providing such serverses as premained coles and immaniations. Through Cubids concept of one doctor for 125 families, angoing community-based date in 30% of 0% of 0%

 Hospitals, of course, don't prevent death.
 We should institute basic health services, raise the literacy rates of women, the primary cantakers of children; and teach nutrition to children in school.

physician who knows the patients and their living conditions and takes personal responsibility for their health care.

And when Costa Roa abolished its military four decades ago, it freed up papelial that want not only directly into health care, but also indirectly inthe form of santibion and housing

Hapitals of course, dwit prevent deals. Money dured to building or improvery hapitals and stocking hightach ecusymers meetly reduces the smouth of aid. And reaches the poorports and Lawrence Bruck provider of the US Committee for LNCE (see Tratified in Committee for LNCE (see Trated) and the LNCE (see Tratematic and the LNCE (see Trasensions, raise the planary categories of childian and bach natifies and hygene to children is shools.

"We also need to recruit people into motions who are healers and get rid of hose who are in it for the money." Alex Roman adds "Right now students need to grades to gratitomedical school and fitheyre not nch, they end up deeply in dealt by the time theyre finated But

GD ASK ALICE

You see it in the haadlines You have it every day thou have it every day thou have it every day thou have it every day the propping up the governmente in Operation and Hou Ask any OEA man He says threets nothing we can do, from the uffice of the Phosekert right down to me and your"

When these works to the song "Structure give"s Black" were mean? to comey dearn lobe, they were mean? to comey the hospitation of the outdetocold cops the works in the outdetocold cops beam of the song the source as the time works interest part, herein time the in function of the part, herein time the source of the source as the source of the source of the source of any more objection, to boning Bohm, meaning Caloritas, and source to the source of the source of the source of the board means of the source of the sou

As drag enlocement aparts plug the disc the kind of upgo continues to we have the loss of upgo continues to we have the loss of the merithma 2000 percent since 1811. And the amount choice of the loss of the merithma 2000 percent since 1811. And the amount choice of the loss of the

Until reporting occurs was indie in mutter problem in Europa where herein had been hie, drug of preivence little communities lite Switzsfand, Span Taby, and West Germany, other as in result of drug cartals approg an underwinder ministration of Europane Silowing American's fead New York Democratic Comprises mino difference in Nurch the book elect Comsteller on Nurch the book and Control. Integra Europain grantmet will learn from our mission

With only 5 percent of the workd's population, the United States consumer 50 percent of the planet's druce (some 600

^{*} Lyncs itom "Snuggler a Blass" by Giern Freg. © 1967 1965 Red David Maschlight Prver Publishing Lined by particular of Namer' Chappel Masc. In: A right num-ved

tons) according to 1887 figures. The translates rationly into dealth from owndealth of the second second second second states in 1888 Last writer a licensis drug data acting operation in New York City And second-second size to all in the car during a strag operation in New York City And second-second second second second Marged StateWith in New York City anged StateWith in New York City

Serior economial Pater Rodard the Rand Corporating a Californe-based their large cogets and additional additional control and the scheduler base takes the observation of the scheduler base takes the observation of the scheduler base takes the observation of the scheduler base takes of the based in radiates by the based in scheduler additional institutes of Handling additional institutes of Handling additional institutes of Handling additional institutes of Handling additional additional additional institutes of Handling additional additi

The bad never Pland studies portend a continuing declina in the number of alfixed occare uses with Ninkines, saw ing the drug's consumption increatingly concentrated arrong the poor and disalivent may doccareae, the demini will somain constant Gree reason is that create, the highly took careadate bits of all cocareary, is less expensive, but greater quartiles are needed to maritem the same high as occare that is stilled or injected. "And if occare use becomes concerptated in the underdass" Reuter says, "the whole thing will increasingly lead onitiaal with more occare existed onities committed by those seeking the money to busited by those seeking the money to busited by those seeking the

According to eighten-year old Linda Costella, athlis ato magualed in they batel that young piecele being using diuga because of pere pressure and i don't their anyare able obce "angle Cassili, who admis that alrea been offered margures and offer drives on many occidents. When she simply zimed bein down she what she simply zimed bein down she

The Long Island, New York, learnage boars answelly thinking and reading should not a addedow after a doer hered learnalay Costable became movined in Jund-sarge for a load drug prevention program "burg people make a choice to use drugs." Costable says, "They other the doesano in other. And parents much procipate such a crisis, site adds. "They have to charge down. And if the choicer, dart segand, parents much and samply shou costable of the down."

While some parents must battle the drug problem at their own cloorsteps. Congressman Rengel believes the war on



drugs must be dependenced. Although stemming from the Cold War and four decades of confrontation and protocolpation with Communicit have diverted alterizen how drugs, which down more American lives than any comparticly hashed in Moscow, he area

Despite the glut of legal drugs from armad Filing ports out singly. The State Department next meritions the subject much less addresses it because in my opmor, we have been affaid of popurations of the rugs possibly more important perposes of howgs policy in the subject and be anything in other country and be anything including trafficieng in churgs as long as to government is approxyment?

Weiden Herraphere Isoders producing field Catel, math field a surmit mating to map bota strongy for warge and war on drugs, Brogel rays, Intel damp a meeting with the Haltm Cost generate liab December Catero plosped ins cooperation in the battle against the other testification. Due the Salah Decemment has been a sturbing block in believe mained exame. It is Catero arend thoros in Nicose, Bartop terve.

According to polychophamocologic Penalis Seguid Internet y do California Renalis Seguid Internet y do California Internet y do California United to a seguide, however, the mage does a seguide the seguided of the Internet y an earling an emotion provide ranking tagits afford the the seguided of the seguided of the seguided of the matching tagits and the seguided of the matching tagits and the seguided of the second of the seguided of the ACS by collarity on the set of the second of the second of the set of the second of the second of the second of the feature of the Data of the set of the second of the second of the second of the feature of the Data of the second feature of the Data of the second feature of the Data of the second of th

The soution to the dwg mobiles Serge between is to produce aw's dwgs. "The difference between amodiain and applications and dwgsg." The syst. The cose lated, used by South Amenica Induate a both a medicine and a similarit, a extracted is produce the provider of to a mean standard, primage a medicane ratio a means, a differ films using the whole bobace lated. The twine motion a databate sector a differ. If the using the whole bobace lated the twine motion a databate sector would be "institute-record" and "when megicaned, Sangel awy.

According to Segal the pharmacouloal industry stretch spends blices of datient every year for the research and development of worder drugs that movmermises the reside and barrets and mermises the reside and barrets where the same in the and according to the opend drugs that immore acrossion. One exempts in SC-8 which appears to exhaus all the evenes without distribution. Future molecular architects Skepti ackts may someday be able to mix and mittah the clearable properties to create a perfacily site continuation

The is not a root summder in the war on drugs, Segel toys. The development of oxis, men meso inclasaratis an affirmitien of one of our most human drives and a chalonge for our first bilikely to coorr unit drugs are depolitcated ---kfin Cammos

TROUBLED WATER

Picture a landscape dolled with steems and letes so tand that no spoote can survive a swim in them. Drive able water pours only from pieles bolt fes. The surgeon general wants that beforg more than once a week in such flucts oxid be interactious to your health.

Fifteen-yeer-dic Wessen Alkalar's visoo of American Vie in the year 2000 is peacemack, which he result years Weyterbees kinds of things will have be happen below poople grir analy concerned about water politics: the New What's reaky inghiering though is that Waaront year could become ensity.

When planet framt was born, should a million uptor model utable how water contrast today. While that was contrast today was an uptor of the second second water and the second of the second contrast second the second planet contrast second the second second contrast second second contrast second seco

Making malates works in the way we've base in brothing the most personal milurs' execution. If the because information is the origination of the second second pilos have of dependence commensions in development activity and additional second pilos have of associate the second second decretes sparse of by "balaginal policy individual second pilos and the second pilos and the There's Werd. The poorer the nation's again Mahamad IIactive solution in Washington CC, the activity pilos to the Washington CC, the model for human week?

Most of us assume that this rule table in developing mations who have writhful bornoft of water-restment plants and sewage systems Stutin many of these countries, only santation systems can't cope with sound googlusions. Cancel on the stuch possiss polythese Cancel in the plant matter systems of units paties up for mation galaxies of units and dearmine out for the indextunates leave dearmine

Because sanitation systems are more

appraisable inthe Weld, welder pounde by practice is oncor is header noom in the practice is oncor is header noom in the bad and decades to protect un apprete boggang politike Differs and online have been provide ame it have 1922. Clean mert installes in June 1988 the Environment and the internet Approxy (EMP) required many of the redom - waterworks is state improve or nation floation systems to out any file motobes incom to course the upper termination in the course the upper termination in the course the upper termination is and the course the termination of the upper termination is and the course the termination of the upper termination is and the course the termination of termination of the termination of termination of the termination of terminat

We have put an enormous smouth of morey this determining our walker of backlocall impurities. At the same time, how evers we have allowed much of our weter supply to become taining by a closing number of sace channess. To deter more han 700 chemicals have been detected in US dmixing walker, 128 of which the EPA calls dimension.

 Trying to prevent drug use by outliawing it is like trying to treat
 AIDS by outliawing sex. One solution: Make safe drugs like 2C-B, which appears to enhance the senses without detortion.

half of possions included setters and medias topowork (page), its waiterings backness (consider the UFF) (page), its waiters (consider the UFF) (page), its waiters (consider the UFF) (page), its composition (the UFF) (the UFF) (the UFF) composition (the UFF) (the UFF) (the UFF) composition (the UFF) (the UFF) (the UFF) (the UFF) composition (the UFF) (the UFF) (the UFF) (the UFF) composition (the UFF) (the UFF) (the UFF) (the UFF) (the UFF) composition (the UFF) (the UFF) (the UFF) (the UFF) (the UFF) composition (the UFF) (th

And a 1987 survey showed fiel fickstry released 9.7 bitm pounds of backs mit shows and sizes in fact the EPA systeme schembally polyladistantace water in 48 of our 50 bates. And 1, gds worse Our underground weter resorves (incom as groundwater) which provide 80 oersent of the American bookstoor. with dening water, have become confaminated in record years by seepage from underground chemical-storage perior and trooc laskage from landhils

Lass pour timis your local valetteretore all samply line out hold valetteretore purpose clamitatic classifiers in borrg employees classifiers and line those toxics from our orthoge weet. "Now never emerging localized to classifier three binds of toxic determination of the second second second second localized to classifier three binds of toxic determination of the second second second second localized to classifier three binds of toxic determination of the second second second localized to classifier three binds of toxic determination of the second second second localized to binds in classifier and the second second second second second second localized to binds in classifier and the second second second second second second localized to binds in classifier and the second second second second second second localized to binds in classifier and the second second second second second second localized to binds in classifier and the second second second second second second second localized to binds in classifier and the second second second second second second second localized to binds in classifier and the second second second second second second second localized to binds in classifier and the second second second second second second second localized to binds in classifier and the second second second second second second second second localized to binds in classifier and the second second second second second second second second localized to binds in classifier and the second localized to binds in classifier and the second second second second second second second second second localized to binds in classifier and the second second second second second second second second second localized to binds in classifier and the second localized to binds i

These can use when of a ware post to the local local sector methods when the major can be a sector method with the local water transmert a cells in to cort former and transmert a cells in to cort former to cort former and the local cort and the local local sector to the local cort and the local local sector to the local cort and the local local local sector to the local local local local local and the local local local local local and the local local

Representative Herry Waxman (Dcaliformati in currently pergramming a bit to control the amount of baskin our drafwing water taugglies is an outerrety per solve fracts to the nations health addressing boty has million Americans, according to the Bry, Waxman says. He and head to the outer both Bry, with a says he and head water at those to face the EPM to reduce lead levels an water to 10 cardin backhold on Valas.

Environmantalists believe we must set towic limits for every suspected poliutier/ and litter test water regularly and caretally Caronity the EPN has regulated only 40 of the hundreds of charactella known to be conformituing out water

All of this regulating takes thre which means we must cardinaus to low in lear of what's pouring from our fautotis—or switch to dimking bolfed water. Siberged miss that we shouldn't concline the EBs turtle slow approach to regulation her should us allow ther "end of the oppe mantality" also says. "I don't think we should be investing more public manage in designing sophisticated meatment plants to remove each of these chamcols. We've got to get rid of polisition at its source".

Service David Durwritemaer (R-Minnexxta) a leading member of the Senate Environment and Public Works Committop, aprops with Sebergeld, expensive gram to prevent the contamination of would locus on the principal activities that threaten croundwater caselly live ceptode applications, but also landfills and and gas wells. It would recurre that ownmassures are necessary to prevent disundwater contamination" El-Ashry believes the answer to water-pollution wore may be to make industrial waste recycling a more attractive attennesse to and use it to create more energy A few American companies-ratch as 3M Conposition-have already successfully employed a waste-recycling system. In such cround well. Instead chemical waste

chemical compounds are returned to their original form in this way the chemicals can be used to program new products

Designing frees new technologes is the only soutian for the future. El-Astry, adds "Poople arean" going to ward to all ler filter life styles to soluce waste so we must be more creative and introvities in the way we hand eithig waste.

At the insut cynicit Whethers Attacagrees that is brugh for Annexisten to change ther comfortable hitsy hable. But haalo believes that afters we hady comprohond the depth of car wave includes and an enter the second second second second locate and second second second second hybro and second second second second hybro and second second second second hybro and second hybro and second hybro and second hybro and h

BUNGLE IN THE JUNCLE

In a humat, densels (social argono of the Amason base RC-mice and of Man aut, Bital scambal werk (surviser) and the intrace structure of the subpail ran formi org and takosh huma. They dooment the changes occurring in the acction of crisis at the free survivoring pargle has been out and burnat to dare the land to a ginoutine and cattle ranching. The



In Germany the Bioc Fores is electpering, dwg tion the posons of acid sain in the United Babas the arthor industry outs implicabile stands of old grawth facet bases at least 200 years old from northern. California to Waichington State at an alamma rate in some parts of Asia the earth has i faretally been altipped barrs to supply invector for the postering a graphic barr in the correand and sin have been discovered for the test two in colorability.

These thereads and subder coses are regard particular. Unlease AI do not energy and an endour the second second second concerned in injustrational and elementary and regard an injustrational and the second prefets and regard bonds. Due to act operation and regard bonds. Due to act operation and regard bonds. Due to act operation and regard bonds. The second prefets and regard bonds. The second prefets and the second second second prefets and the second second second prefets and the second second second second prefets and the second second second second second and bonds and bonds and the second second second second second second in a could be obtain controls and second second second and the second sec

Congressman Bruce Veno (2) Merne sotily who chemistric He Kusse Subcommitae on National Parks and Public Lands is trying to passe ling allow to portect the nemating bareas and allow the population of the National save lat after texposal forests of Lann America and the Cambosan We need to lead ways to protect the foroat and, at the aims time, support the economic of the reason. Venus save

A tractar ian Senet recover 100 million million of the social variable of the social of the social variable to chard the social of the social of the social the social variable of the social of the social the social variable of the soc

¹⁶ decide ago lage home tryege asstant secretary for optimal false is the Brithsome Ingliquor, "no recerble data settatic obtermine how to a new loset though to be preserve is headt and index for the tryege of the obter foreid of to sudar in 5 though and least and the settation and provide asstant barder of the settation and asstant barder mammals are plents those asstant barder mammals. tes of a mison acres must be preserved to protect the entres ecceystem of a forest in any section smaller than this spe ces bean to disappear.

Longing also inhootcool data forma han weap. The World courses togged cours with foreign dobts—inhe tail lifes both dobt as 25 histo—Louid juban both dobt as 25 histo—Louid juban Louging proposed to kuy the eletan inwhere Witchie Fand auspiles technical both dobt as a set of the eletan inboth dobt as a set of the eletan indicated in during limits in these courmes anyway, says Kathyn Fuller precars of the World Heldin Fuller precars of the World Heldin and Indi-Compression for Full Molth Fuller presolution dobt Molth Fuller presolution of the Molth Fuller presolution of the Molth Fuller presolution of the Molth Heldin and Indi-Compression for Full Associations with Solution do Molther Tubar Set on the Set of the Molther Tubar Set on the Set of the Set on th

Sweps ranging from \$1 million to \$75. by the World Wickle Fund the Nature Ormervancy and Conservation International. Other debt exchanges are sonected to occur in Africa. Eastern Eas as ten cents on the dollar or \$1 million of debt for \$100,000 in exchange a fund is set up to boance omtection and minagement programs that support conservation. Debt for-redure swaps are however, still frowned upon by some nations. Brazi's president Jose Samey balloves the rescharges paye the way for the Used to control policy in less fortunate court-\$120 billion. Samey reacts the sweps gaard, a senior scientiat for the World Wildlife Fund, "Most poppie in Brazilinenational plot to take over the Amazon

What the United States demands of i ste American and other Third World countries-preservation of the rain forexts-it does not demand of #will instcally, our own government is distroying the rain forest in Alaska "We are saving Do as we say not as we do " says Congreasmen Vento The Torgikas National Forest, the only remaining rain forest in North Americal stretches along the panis a beautil pristine wilderness surrounded by spectacular mountain landern hemiocks stand prouck; as they have to many centurys Home to Sela blacktailed deer and the world's largest poputation of bald eagles and gruzzlies (notably the Alaskan brown bear) the Ton-

After World Wer II the UIS Forest Sarvoo ofbreed two companial, Katahikan Pujo Company and Alatak Pujo Company Bujo Company and Alatak Pujo Componator, 50-year contracts and cheak kamber prices to have st the Tongass Japan booght the build at the trees pulp modust. Sary percent of the pulp was used to main orwin and calcidations. In 1980

the Assis National Interted Lands Conservation Act (NNUCA) was painted making 4.5 bittion board fast of Imber available for outing in the Tongess each decade ANUCA, also provided \$40 miltion is yeak, "or whatever sums are necessary," to build nada and the other stops to make imber available.

Solg vir seiman by Alasian turter has decine bocos myo mit orden phane any produces input mit of any and the Final Book Haussian and the matter Solo-Hilon year of Boots and explosite Carlos and the seize bolt mit and any and the seize bolt mit and and the seize bolt mit of alastar inde to do table and mit of Alastar inde to do table. Any dot table there of the seize bolt mit of alastar inde to do the do the do the table and the seize bolt mit of alastar inde table and the seize bolt does not bolt and the seize bolt mit of the set the seize bolt and the there of the set the mit or tool. Al vecases of the produce the set prime of the set the set the set of the set there of the set the most cool. All vecases of the produce the set prime

seventh, and eighth graders collect rannater from the playground, test the precipitation for acidity, and call in the results to the Audubon Society's offices

road building is essential to the economy it circulas jobs

"But instantion senten tam Attested Staves and think full keets at well as Republics instantiate Don Starg appart ANLECA They not the umber instantiate the sentence of the transmission of economy Cating Inste, heaver, desch support an economy based on a long and records in Adv and the loss is long and records in Adv and the loss of the loss of the loss is long and records in Adv and the loss of th

Some congressmen are as to kill the ANLCA statute, The Torgans Timber Return Act, recently insoluted in Hause by Reparametries Bid Matark (D Naw Yank), carls for termation of the 30 Naw Yank), carls for termation of the 30 intel Torgans are widened as a set of and stack period to the composition of and stack period. Store composition of Park and the set of the Torgans in Park and the set of the Torgans Timber Park and and a semiler Bit insoluted in the Section are abled to make here. dent Buship desk later this year

Company allocities process to cats Company allocities process to cats (Co), second of the House of the Mount was instructed to the House of the Mount and the Mount Allocities of the Mount and allocities of the Mount Allocities of

Concentration and the effects of least and, the filter Northern Start and Autom Social These Induction Social Start and Social These Induction monitoring statistic masure and preceditor houghts the mage Thernitesch last certes in all 30 status (The Enveronment Potencial Agency (to martises suddy in the ranbit automotic Biccause fits agency does a complete characteristic Index a scriptice Characteristic Index House Index

Auditation on the other tend, virialized to deprevent works to compare and local news organizations keeping peopleaware at add rent continuing effects in their own transplant. Autobio Society and the add minimum and the transplant keeping buy School in New Yorks for handle and marks and the paragradient and marks the paragradient for results to an answering marking at Autobioth readsharms in New York Ofmarks to an answering marking at Autobioth ised accurates in New York Of-

Barriod by a video on set or is shown in class, Jason Berry an eight guidor, sold. Then heat awas Linning scheeland of the set of the set of the set of the set ment heat week being of the set ment heat week. We generate doi: 10 heat any mode the heat school gui molved in the net week. We generate doi: 10 heat any mode the heat heat go the set of the set of a first heat heat the set of the provide doiting and the provideo ment prove exclusion to the met of provideo of a first heat the set of the set of a first heat heat the set of the set prove exclusion to the met of provideo means do doiting - Cash's Servery

WAR HUUUUH

WHAT IS IT GOOD FOR?

With a world amenal of more than \$3,000 nuclear wapons holding the tuture hastage nations continue to endorse war as a tonge-policy tool. They was the development and sale of woopreamentmetates to an



HIS POWDER'D WIG, HIS CROWN OF THORNES

Generations for the second sec

PAINTING BY DONALD ROLLER WILSON tronts. Business alone could bring him and ramper of a Mr Cloud, device in Navaho sweity whose samples had provid of expellent quality and would letch the that the sace for functione had nearly run ularity of the kind blue atone the amplicity of black-patterned silver would be a garsh rock as held been forced to stock case presentations in Plans, five major closses were bidding for rights to photoorison his collector's proces arrange necklaces, for a special liatrion portfolio

Here in the stams, dodging extruded plastic kachina dolls and machine workin fended by writially everything he row. It pop hits, thank God. Only true quality could ever transcend the dizzving gives

So much partness ultrately had the effect of blocking him to his pressringer avoidance became a mental as well as a presidents gleaning against wory skin when he reakced that he must have howkers cres the pulse of hate drums and tambes york. He span about search-

high man first late is said the set from the gruesome rubber scalps, along with sevwhite was was spattered with smong the coasist white strands

"Looking for a shop." Goard mutiered tumbling Mr Coud's card tom his oockat

No. I mean really lost. Out of balance Kovenosoto gy Like the whole work?

peaced frmily

Theil all then? A shop? What spout the things you really lost? Things we've all lost,

He palled he bory tep, which will

The show is Ann What Moht Have Room paaving in early 1990

wacoved in a blick leather kneckth like object on a string, a charm of some above a doorway. The damn ruddy was in his way. As he tried to size pred, avoid ind contact with the rubbery scalps and blooded was the brave uncloped the chem from his bell And finual if into

word in the street. It wild an avoid little agorated expression carved from a with-

'Hare-heres where we lost it' the brave said thrusting the doll up to Grants cheek as if he would have a liss of rip. made of jerked beet spread-eagled on wooden prosiders hands and lost weat age Christ-an obsoenity

Something denoted from his belt a doll-like object on a string, a charm of some sort. As Grant thed to slip past, the brave uncloped the charm and thrust it at him ?

"He gave His life for you" the brave said "Not sist for one people, but for everyone Flarcal treectory, that was his

"Im late for my appointment," Grant aved uneble to hide his dequat.

Late and lost," the beave seed "But you'l never catch up-the time slipped cest And you'l never lind your way un-

Just get out of my way?"

He showed the brave aside knocking grasp Fearing repreal, he forced an applorate representation as he turned back. wasn't watching him the prouched over the blink street retreveng his little martyr

"I'm sorry" Grant seed

The brave glanced up at Grant and grimed tercely being his gold teeth of the Christian dione away a racood strip

Nausealed Grant harrmened on the door it opened abructly and he almost fall ato the arrow of Mr Citat

He next saw the made the following sorie the fact that Grant apadialized in and had exposed him to no more glo with the creators of the line preces that with cold as well as silver supplanting other precious stores, the trend toward high-fashion American lewelry hed al panicked search for the next sure thing. tended an open invitation to a four of great

humid haze, worsened by exhaust lumos from the taxis their sterring the city a man against collapse, he and his ouide created from two after tax and plunced and crowded with black youths reling on

ures of American history, thus surlooked micly bemused by the addicts stopping between his last the branze betthers Richard and Wilam Howe stood mob, as though taking their last stand against colonial Wiputans

Granit's host. David Mickelson, was a transplanted lishman. He had first vo-Royal Army, and alter he term expend had signed on tor a stirt in the Roval successful dermatological practice in Arroidsburg Hawas a collector of native with Court Inner Mickelson had even lent taste in metalwork but Grant hed often challed han for his love of Tasse metalo monstroates

But these are heroes. Grant, Imagine where England would be without these imited room for expansion? How could are been kept up the nort of healthy mowin ton? And without these men to secure on to it? America is so vast-really you have no concept of # These wemons laid Spein and Fitance. Without such line amand case the coverteing of the Sx Na. tons. America might still be at war inThis is our feasure house. Grant, and

Treasure' Grant repeated, with an idle rudge at the body of an old sough who

Come with me, then "Mickelson said ever you like

They beended another tax, which proand many of boffs: A broad appointers tome appeared above the cars. "Ab" said Grant "I know what that is "

They daembarked at the edge of a huge circular plaza. The dome that hundred white columns. They want into the lidend shadow, into darkness, and for

Weth out old boy," Mickelson said Here's the rail Grab on Wouldn't want fo stumble in here"

When he left stoady again he opened hes locily smooth round as a bullet hole ciplied deep into the earth. He bill a cold wind coming out of it and then the grip

"The depths of value the producable saving. "Makes you dizzy with pride,

teeling suck " Grant turned and humed loward devicts.

Out in the purchase again, his sweld gone coid, he leaned against a marble podium and oradually caucht his breath was encraved with the name of the head whole accompletments the shell com the slab

FIRST AMERICAN PRESIDENT GENERAL APPOINTED BY KING GEORGE III

David Mickelson caught up with him

Wetter I-I thank I di ike in get back to my rooms it's this hear

Surely I'll hail a cab, you just hold on

As Groof watchest Mickelson hursy away, his eves strayed over the circular plana, where the usual hereigns had laid out the usual souvenins. Habit, more than ounceity drove him out among the rate and blankets his main swifty ceching if all as garbage

Well, must of if This motif turn out to be another fortunate venture after all His " jewelry their suddenly seemed of see eve had been caught by a display of abtokony brikart designs done in coppar S5 DMN

and brass. He had never seen anything cute list them Serpents explain par He looked up at the proprietor of these wares and saw a young indian worpan. beads on a string

Who made these? he said softening of mid curosh

She paped up at him . My husband

he have a distributor?

She didn't seen to know what he

"That is closs snyche else sel faise means?

She shock by bead. This is all be makes righthere. When he makes more, I and these

6Grant recoiled, nearly stumbling hankward m the street. It was an awful little menneaun. apprized expression carved from a withered apple?

shouting his name. The clastraticipant came running over the marble plaza Grant live potyou a cabi

Grant constant as if to brush hirt away

"What have you found?" Michelson tred spun him around in the direction of the terre-perhaps a bit too rouchly. Mick he clothes then stalked away peaketily toward the cars. So be it

Smiling, Grant furned back to the when he saw what she was dono with

She had formed them into a noose, a bright rambow noose, and sloped this

He knew that doll knew its tough leathered tissh and pierced limbs the

The cross from which she dilaken it lay dispanded on the blanket, next to the

While he stood there unspeaking, un-

moving, she lifted the dangling doll to hall ice and density being proceed tooth

What what

He found temself unable to ask what grant he stamment." What do you want for all of these?

She finished chewing before answer Ing TAP2

Yes 1 Id like to buy all of them. In fact. (c) like to buy more than this, (c) like to commission a piece, if I might?

The source swallowed

Wy hundrend consists what is within the would have to see your deems

My closere? Well yes. Fil tell hern ess actly what I want. Could I meet him to decuse two?

The source should she palently image, spread it beick onto its cross and prined the three remaining limbs info belt Finally rising she rolled up the bianket with all the bangles and bracelets marm "Come with me, she said

He followed her without another word an incline, losing his belance with every step, basely menageng to throw tenself in her direction. She was his guide through the slearning city, through the crowite of moded doth skine rucidy and dark. He his be, and struggled after her. She seemed to dwindle in the distance, he sweet sweet that choosed through the gutters of Amoidsburg and offered only

But when she price looked back and saw him taleand, she cut cut her hand and he was standing right beacle her. near a motal door She put her hand upon

the tremalous light of cancies that lined a scated ranks of the dead he had seen sound of hammaning. She opened another door and the sound was sublerily

They had entered a workshop. A men sat at a metal table ciutiened with code of

Good alternoon, Grant said "i a creat adminer of your work

ing under his weight though he was not his down-consort her his tech was sold his eves were hard. He beckoned

"Come here " the man said. "You like my stuf?" What is it that you like?"

Grant approached the workbench with altering of see Samples of the mark work lay seataved about but these were not done in copper or brass. They were silver, most of them, and gearmod liver maching?

Thestyle hested. The substance" How about this? The inclain trigered a large cagle with spreacing wings

The lange shi d advant of the

"It's a sign of freedom" He laid it down "What about this one?"

He hended Chief a small exclangular plaque insortibol with an unusual but somehow lamiter design. A inumber of honzontal simple, with avquase inset in the lawar right comer, and in their square is wreaft of thritem size.

"It's beautiful" Grant said "You do superor work"

"That's not what I mean. Do you know the symbol?"

 I trink five seen it somewhere betoes An did Indian chearn and 6²

The Indian growed Bold toeth agan, bridging the distance between London and Amoldsburg, reministing him of the parked been merky. The service Christ

"Not an inclian sign," he said "A sign for all people."

"Really? Well, Hit like to bring it to all peopie fim a desier in fine jeweity I could get a very lange audionce fair these paces I could make you a very rich men."

"Brith" The Incident set the plaque wake "Breve of houses are not. The tables have all the land and factories they were—set much as you have but set lack what you also lack freedom. What is weath what we have no freedom.

Toundom?

This is demiconcept to your and 12 But not to mall the put his hand over his heart. Their it have, aske with the manony of how we load it if a precede thing, a cup of holy water that must never be speeded until it can be availaved in a single chait. I can y ho cup catching but thesis arough for all if you with to first. If can be immonia?

T then think you undestand: "Gain's sec, nonvering some peri of himself their head begun to christ of through their hystolal fog in which the incleas always veiled themsolves he must do something contentie to countriest to much vegamines."

What I m speeking of is a business vonture A permerchip?

Their your write But I see something despiral you: Smarthing hat be less in will men. They oome here seeining wall at our loading for fleedom and a cause. But all they find are the things that work wrong why are you to aut of balance and of sha stamble and cause but you always ford up here with the same work you always for your eyes. I we seen you before. A down just lead out.

Tim an art desize Grant said "Not a a pigrim II you can show me more work live this. It'd be gate that Otherwea, I'm sonry for wasting your time and III be on my wey." so const. Subbally he was involus to got away, and this seemed a reasonable excuse But the gwelig now seemed valdy to accommodate him

Art then' he said 'All right, I will show you the tring that spasses to you, and per heps then you will understand. Art is also new to the soul!

He sipped down from the stool and moved toward the door, obwously intendno tor Sent to follow

"I show you more than this," the Indian and "IT show you inspration"

After another azzyrag, weik, they onlawed a dander museum in a dataset here stank of danger Grent het alle only bageues of its occupation, he was downaily a datagraphere in these oppresent alleys been nage the typos, which assumed laiss is massum there a wanhoud, he somed by allert muse, many adheed twee consided by allert muse, many of them children ulmest all of them Nage or Induit. Some ass

The painting was called with grease, darkened by time, but even through the 'grime he could' see that it was an imitation of Da Vino's Last Supper but strangely allered ?

In bicks on the commit foots taking gamedy enroug hermoleks, as hough taking instructor. Plawseo Chokasaw, Blochtod, Cheyerna Corracciae. Annobiburg was a papaler tale for tourists, bastase adont have the look of the noddy middle class travelor threa wern lower class induces as bitteriad at the popolar tr des induces as bitteriad at the popolar tr des otherwise on host to come net Gamet et as in the lost at travelor.

Now you shall see " caid the pweiks "This is the art of the pethots. The ficealthers. The holder ones."

He stopped near a huge carvas that learned against a stude basin the painting was called with groune durierined by time but even intrough the gime Grant could see that it was the work of gains. An imtation of Da Vinois Last Supper, but stancely aftered.

The guests at Christs table ware not believe attern but that of the eighteenth century. It was no winclowed building that shelpend thim but a latert whose walls gave the impression of a strong wind bearing from whost. The thirteen were at oupper men in millery outful, and in their mild a figure of mid yet regaint demonroe humble in a powerhead wij a mine citual of braution has plate. Grant did not recognize him the lique in Christie place tout the mare in Judiet place was recognizable arough from the numerous busis and potrates occuming in Amoldiscurg. That was bennoted Amold.

The Indian pointed at several of the ligures: giving them markes. Henry Krizk, Nathanael General RichtHorse Herry Lee, Latayote General Richtemberau

Who partied the?

"But fast men in the model...?"

The Indian lad him to another painting. This was much more recent judging from the lads of accumulated sout and ghasia Seventi chicten stood gozing at 6, accompanied by a derice women who was trying to get them to answer the meaning of what was essentiable a problem more

"What is this?" istin articled

Several hands want up "The cherry tweil" cherry a life voices

That's right, the cherry tree Who can tell us the story of the cherry tree?"

One title get pushed forward. "He chopped it down and when He saw Wild He had one He says." I cannot list if de So He planted the pace He cut off and it gree into a new tree and he hunk of the act the onew too because If was made."

"Very good Now, that's a lable of course Do you know what it really means? What the chany late represents?"

Grant left like one of her changes westing for some explanation, imaging

It's an English cherry, ' the teacher

Hands want up. The teel linner linner I's England. That's right, she encouraged. And the

"That's right," she encouraged "And the pece he transplanted?"

'Americe'

"Very good And do you remember what happened next? It isn't shown in this painting, but it was very said Tinthe?"

When His tether saw while He had done be was very scanod, he was alread his son was a dowl or something, so he tore up he lide tree by the roots He tore up America." And you know who the table rooth is

And you know who the tabler really is don't you?

The King? and Tinaha

Grant and his guids want on to another parting the one showing a men in a powdetect king and a register unitom walking across a mer in michenter—not stapping on the floas but moving carefully between memory oversets to

ABTICLE

America Sheller your homeless dispose of toxic waste, take care of AIDS victums, build cheaper energy plants, but please,

NOT IN MY BACKYARD ROSEMARIE ROBOTHAM

good neighbors " it might ica once, but good deepenno cycle of soparamits where to con-



waste where to construct sprawing new airports The answer is always in someone's backyord. But more and more, simid a duraying whill of threats to individual security: Americans are coming logisther in protest "Not in my backward?" they 'ny write declare

MMRY What is 22 How obit a proma about and what does if say about us as a nation? NIMBY's can rise up in response to two clutinet syster of dilemment spaniand technological Boxic waste, nuclear plants). Within the last 20 years NMID's have become more powerion, the ineviable result of scontrol fuctuations caused by cuts in federal funding for state and ony Factory emissions have severely compromised the dividuals merchestate to accept another group when I fen Island residents are up in arms over plans to lo-

there is nothing smelly on unortractive, no drugs on fmough a clear sky. And we're poind to taht for ea much of it as possible in that solf sh, autonomous way

means that group will be moving next door. "Let's

Gaylin, a psychiatrist and

would love to live where

sheep is no traffic, no pol-

that is characteristic of our culture

What has become of eocsel considence, our concern for the collective cood? Perhaps it has always abled in the obstract, to donate articl emounts to causes" says Sheldon Blackman director of an-Vincent's North Richmond Community Health Center in Sinten Island, New York, "Full # is difficult to wei-

sarie NMRY constructions are construct up of a rate of several per week. Some are responses to political decisions. In New York, for instance, where prisons

PAINTINGS BY BOL AND CAT



pasa any jelin this benophi 4/40,000 projecti - Chrin NMRP actors seek to projecti - Chrin NMRP actors seek to projecti the environment in Fisnetti mass. Physic Breining optimized her own NMRP (pexp. to figit the construction of a thick stop by a weate having company accord the attent from her supply action (hinatanti accelets of an inner ofly community are postering plans to build a \$200 million taccelets of annotion server of hinatanti build in the accelet a \$200 million taccelets of annotion serversit hinatanti or participation to build water the annoting the accelets that will water out their resplications of anno-

Even in Bankey, California caudie of social consocueness in the Sofies cries of "NMW", are being hered. Crie community of former indicata and old-ane liteerats of older black families and white yappies successifully opposed a chopin center for the menality if in a neighborhood storehort.

The term AMMI was in to carrel a rither books, when Ammana was possible of possible in the surge of balling in models in the two commentation barries of the and of galaxies code organization as indirectual; were allower to explore the two of galaxies and comments. These second comments allower the two of the two of the two the two objective avoid the central of the two objective count of two was of the two of the two objective count of the two of the two one of the two objectives and the two of the two objectives the two one two others the two others are to object two others and the two objectives and the two objectives the two others and the two others are to object two others and the two others and the two objectives the two objectives the two objectives the two others and the two objectives th and so often today—'I have a right to protect my little plot of land"—was not commen parlance. And NMBY dute toecome a broad rational phenomenon until the late Seventees.

In 10% is a similarized of Nagata Field New York Association for Composition for Matter Gibber mode for composition for Matter Gibber mode for composition for Matter Gibber mode for those and for Matter Gibber mode and the second second and find summaries that plangual demonstraation struct or forther all plangual demonsand structures of the second second second and second second second second second transfers of the second second second compared on the second second second Gibber and the second s

When Renaid Plagate bockers procedent here were simplicity, hill have a simplicity of the NMKP had come of age During hile ophysical product Responsements of histophysical product Responsements of the simplicity of product Responsements of the simplicity of the product Responsement of the simplicity of the product Responsement of the simplicity of the product Responsement of the simplicity of the response of the simplicity of the simplicity of the simplicity performance of the simplicity of the response of the simplicity of the simplicity of the response of the simplicity of the simplicity of the response of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the simplicity of the simplicity of the response of the simplicity of the response of the simplicity of the simplicity of the simplicity of the simplicity of the response of the simplicity of the sis of the simplicity of t



scup stochers, and load partness Hi (by more the hirt a relational table of 344 bilian in ad abreptly out back. Chos are hard-proseed to pok up the table. Phychartic wards have been closed and meetal patients wander the streets seeking the tareks of the homeless atments the captories of the homeless atments the captories of the homeless.

One imply any that if America's so cal consistence seek, if it the ball of the before government. New Deb parts by some here seek with its inclement boferal retrained and the schement prover upt of Americana absolving is formal responsibility toxets do or blow obsers. The social channels of Missicana, local context of Americana, local commerciator Lace Merow work. That acceleres the bits that has peer to low in a cus.

George Bush has permand a mon ssponse government one has values indress, and a most commitment to solving society's its in the next breach however, he concess that welface and other poverty programs loater an undevaloid dependence on government

Bush's holdon, told up arrew the perentrue conflict at the heart of the Armancan value system generosity versus sofrelation. The President wants to some both mataxies: As yet he has served nether. If comans to be seen whether the current admission will offer more than a they wants of one colournal, "Pagganoms with a human face"

Initia interversa program providely with regards to Lain Aminica the activity adapted tools all the approximation and the approximation of the approximatio

The NMIT inverteent draws together strange bodifications—percelar of diverse body political and diverse body political and diverse body Marcageneti. Board found hat NMIT apatros typerally and hat hat the laditors NMIT satement. Nearout or laditors of NMIT satement. Nearout or laditors of the satement with politicities of 250000 or main. NMIT satement and body sate college adductad house main adduction politicities. Nearout adduction of the satement and the sources in the satement of the sources of the satement of the source of the source of the satement conting to the study. Southern and Mowestern Republican term termles with a high-socked education or less are least apt to question communitywide projects located in their bisclivante.

Many who live in the middle of the county balance that the 1984 report has been used as a guide in choosing locations for understable governmant and corporate projects. As a result even the orseroally passivel group hile, in the liait has very as taken up hMMP activity.

Whiteen expensions are supported that use example the support of balance of the support of the support and support the support of the support

Rehard Taub, an urban sociologist

sporaknow pieceware beersport at the lawering of choose suggests multitine is why MMM' doministrations are imported by MMM' doministrations are imported by MMM' doministrations are under the suggest and the suggest and suggest and the suggest and the suggest and and tables preserve a largie economic suggest and the suggest and the suggest and and tables and suggest and the suggest and and tables and suggest and tables and tables and suggest and tables and tables the most of tables paths analysis to here registering and the measure to sumy sug of law and the measure to sumy sug of and and and the tables to turn.

On Good Taby syster and a net all ago Winneaux New Advances, well he side of a passcarate portext. In the medio-lass community resetting is a lastly for ADS optimistic advances and a lastly for ADS optimistic advances advances and a lastly for ADS optimistic advances advances advances advances advances advances advances ad "These ADS people come tram a degenerate society," declared care assocation leader Kein Higgins. "I'm talking accel sex and degenerates pesang drug needles in Newerk. They don't want them in Newerk Well, don't gut them in our backward Web believe in NMBY 100".

Ectiong Love Cenal, Three Mile Island, and Bhopal, technological NIMBYs also occur regularly. And perhaps it is obser to sympolitice with this type of demonstration against the forces of big business. Such cases recall the biblical image of Dward and Goldeth

The term we provincy to agrirms to socoverage careto across down, which is produced by the barring of dual numerical transfer to across of certain and the sounded end to a sound certain certain to across the term of the sound certain for executions. Incremental reference and the sound the sound explores the term certain for executions. The term certain for the sound provided profile on certain for the sound profile and profile and packaging informs. Some bar that the manner of the certain for the profile increases and the sound profile and the certain to the term of the profile bar the profile increases and the profile increases and the profile and the certain the point barries the point the point barries the point the point barries the point barries the point barries the point the point barries the point barries the point barries the point the point barries the point the point barries the point barries the point barries the point the point barries the point the point barries the point barries the point barries the point the point barries the point the point the point barries the point the point barries the point the point barries the point the point the point the point barries the point the point the point the point the point t







A set and approximation data the analysis of the set of

PAINTINGS BY DAVE ARCHER



paint on glass bit receiption rate does - concise restrict) on generating instan-noise. The Testa coil, the mainstay of - made bolts of lightning is enough. The process, was developed in the - For Archer the lightning is enough. 1980's by Nikola Testa as means of - After spreading paint manually on th-

notes, "L'below we are doubly getting boockaating radio signale at very high pla-shrungh glass, he untenaites the the big below, increations you seem to hero gotten how boller moit! "Austre plane herobarrout coalise in the poly enteres therough the dust doot quarte by own here indoornation devictory to all the sub-har to plane the most here then in welder of ceeded in their the generating main and depresses. Forming the coalised of partient glass the intent herin welder.

pie-rithraght place, he unleastee the power of a large frails cool, and elec-ticity streams through the dual toda of his "truth" The part backles, steams, and disponse, formag the coesso doubt that typity he work. Metry al-cohol, when ignates and wapomen the paint, is added to change pigment and

consequences and a subscription of the standard strate, were apply may wronked begins instruction in Loco basis promotile branchine, and a particle kindle whom the badit a small spark generative whether documents the world and call be promotile promotile, contem, and on the particle strate strate strategies and the elements of the costnos. Archer concerned the technique of a immuosi all the installs. Archer reads to the second operation of the installs. Archer reads to the second operation of the installs. Archer reads to the second operation of the installance of the in these-year study of painting on glass ages of the controls favorates Archer, ward like a datoing spirit, a spirit of life





The data is some there is the interval of the interval is some the some the



THE PLANET

ons as healthy for the economy. They premise defense and record security can be fought and won

When Soviel president Midhal S. Gor bachev and former U.S. president Bocaid Reagan signed the Intermediate Barge Nuclear Forces (INF) Treaty in December of 1987, # signaled to the rest of the world an effort toward peaceful coers' annement and Congress's ratiosweapons than will be destroyed in the fine years stoulated in the documont. countries-including Libys, India Pake stan, and South Alnos-will have the weapons And with the odds of nuclear war ababily nonsessio, the survival of humanity-indeed, the whole planet-up

I ruclear war broke out between the Underst Statest and the USSR it would be-

completely destroyed, allowing the onsiaucht of the surfs deachy ultravolet raits In the worst-case scenario the suns list? greating a "rugiger winter" that would de-

essanty begin with an actual declaration of war An "enor" could brocker the same effect in 1973, for meannin, a failby costputer chip in the North American early wattent system "detected" & massive Reviet curclear attack. In August of 1994 Soviet Papific Feet headquarters flashed an elect to shace at ass, potention them to Both were false alarms

Maxies equipped with computer guidance systems that launch on wantno can reach their destinations in minstep-rhocorditeral masks in loss 10. according to Frank von Happel, prothe research ann of the Foderation of American Scientists 'The elimination of cech other weepons that pathy launch would not allo all many more Scient, on warring Such measures would re-

move the har incoser on the doorneday serial by ninety percent

The Unded States and the Soviet Union more cooperative approach between mendous flow of conventional weaponry to the Mitcle East, for example," in the

"interestingly," says the University of Pytsburgh's Thomas Seaty a professor of decision theory who worked in the U.S. ever since the beginning of civilization. prophecies have predicted that a major is fied to the Middle East. That is why we stand their religions in order to under

It seems chrystel that a buildup of arms does little to prisure a strong defense has seduced every president, with the that rational security and strength and based on the magnitude and character of milliony hordware. Elsenhower, is caover million man lounched the interstate "He helesoni that health, he ward, and a strong economy are also fundamental to a strong national security program and that our amergi in and of their council these other sceae," says Oregon Reputonce said that 'every ship launched and every missile fired is a theft from every child who is cold and not clothed, hungry in our pronties today. Amonda is more concerned about thereby political repimes-even if it means the destruction of a community or a whole country like

In El Selvedor and other countries, sven in the United States, the infrastructure is the very area that is suffering. "With teachers health care workers farm peopie-the kind of army that builds and vanaformed: says Hatfield, the tather of apprisor of the recently resisteduced Senate bill to prevent the development. testing, and depintment of all weapons in space "Beeing the results no one

that produces nothing instead of terror Many peace activists however, be-

law that to eliminate nuclear weapons Moving soward a more global form of acvernment would be a first step. But plying been caught between two extrames at one and, a kind of pharothy m what it wants, and at the other, some cantraized, powerful world government. Who Hippel armans for something in

parazation similar, for example, to the in-Introductal Atomic Energy Agency, which has golten more than 100 countries to sores not to develop nuclear wespone which has been influential in organizing forum where nations work out means of outing back the production and release pleting the stratosphere's azone.

"During the INF treaty negotiations landed" Von Hippel says But the Maronly education, and health issues. These moral equivalents of wir can in fact

sid actor Lukes Hass (Without The Real things that are destroying the world. If we keep on testing nuclear missios and Active in the peace incivement since

ins appearance in Instriment is 1983 tim about post-nuclear-war Me. Hala had activesed audiences at schools and clear war "I skrk about war all the time, and I twok its a protty crezy idea' he clean d up. I try to convince people that theros out. And if they can't, they presdevis should be nip a boxing match of something because we had nothing to do will it. Wo don't vote on whother we

not I'm scared about turnerity dying -ALS BY/DO

For the purist. Stoli.

EX MIT IN MIT AND WHIT ON LONG TO AND SHOT MIT ADDRESS WAR OWN CARD COTTON.



Iting har own crown. Through he wodow she could see the likinghts of platgenty taking of and likening is the airport access the intervery. When the hursd's har need the take was entiting at hist, isvesting a gold instance meat with a small aimmend. Crinkly pressed a build on a he present/walk unit in the headboard and before agring the math should not he armulators satitied over her senses like a solidy edited forem.

Britwani jugrapis tat e chos a pom secano so two amout by te organization in the secano solution in scalarang tan under section of the treats, mmong the smallach in graphs as subscalar to the treats, mmong the smallach is a scalarang tan under section of pillet of the desmands. She wandlend desmandly when setting the scalar the transfer to the scalarands. The scalar the transfer to the scalarands is transfer to the scalarands in the scalarange of the scalarands in the transfer to the scalarands. The scalarange is the scalarand transfer to the scalarands transfer to the scalarand transfer to the scalarand transfer to the scalarand tran

Then something happened

Cinchy's internet: spasmed 3 bee pagarad is a wake of nuceen moved tacuphotic memory with the similarity of the prantwarks 2 bits policid off the interative conversion of roll on the term make or it to the barroom suit before similar version. She made out her mouth and the schedule schedule in the mouth and the schedule schedule in the schedule similar to the term be barrood to appropriate to schedule schedule schedule similarity of schedule schedule schedule similarity of schedule schedule schedule similarity of schedule sche

Circly let harself out

For selective water, Christ y had been untake to concreations Speed had not helpsot, nether had suspeets. The helpsot, inspired her takes name, what take and where they water from Dr humens abgedres bey water from the take mens abgedres beyond the therefored to let her go it water take there implement the spired and therefored to let her go it water take they timg beyond the previous takes me behaviour and the spired to be the spiped into previous takes me takes and the spired takes and the behaviour and the spired takes the takes and the spired takes and the takes and the spired takes and the takes and the spired takes and the takes the spired takes and the spired takes and takes and takes and takes and the takes takes and takes and takes and the takes and takes and takes and takes and the takes and takes and takes and takes and the takes and takes

Concycled been selling all memory to vanues Denarrivality to the second and arrange and based soldies. Typo is selling the boxy, why not sold the them's selling the boxy, why not sold the them's production of the selling sold the them's production of the selling sold wheth the memory production on any requires the them of production of the selling soldies and allow And lack regrit all the Holin – down submy recognized as the com – hold be subsuited in the the last lines and the common of the the last lines and the common of the the last lines and the common of the last lines and the soldies in the last lines and the common of the last soldies in the last lines and the common of the last lines and the common of the last lines and the last lines and the common of the last lines and the soldies in the last lines and the common of the last lines and the common of the last lines and the soldies in the last lines and the common of the last lines and the soldies in the last lines and the common of the last lines and the last lines and the common of the last lines and the common wordered what other people saw when they level her mamories. What they fell when they were her body.

When she had answed home the provector right true without halfed to puther to deep and she follow the control language of the she was a start of language. The she was also be she was also be she was also be she was also branch. The she call her to be she in the she call her to be she in the she call her to be she in the she call her was also branch. The was provided measure in branch her was provided measure in the she call her to be all her to be she to branch her call her to be shown to be

Cincly logged onto the household computer and delete het bink, nequaling a period of all the deposite made to her account deling the last as manths. Dave cables alle scalared the pages of philos. I haran at the deposit dates and data announts not only the state of her terrores that a statege hand of autobage raphy of prosociano, detailing the life in acts of trade and commerce. Cindy used in purple per to cards the names of

It was like dying, it was like walking from one dream to find hersall in another, a Chinese puzzle box of dreams. She kept jurnoing from simulation to simulation, seeking hersall?

DreamWalk production houses that had made deposits to her account. There when more than shall expected.

After busiktide der werde to a tig Desrivtlike obeit einer Effektivelige and Desrivtlike obeit einer Effektivelige inde besiehen destruktionen deschlichten up hopping om miglit social lambar bis beste of the einer freu chaps also particular beste der einer einer des des des des obeit of els acht particular bis to the way it make things smallet. Sin hopping way it make things smallet. Sin hopping ummany aus and the things and show all many all all the the work show. On the street the minisking sing all social to be totaking aus all social to be to the solution.

Cancely colorest near buzzhed quely in shop writtows as the walked along Bioddway Evening was pet coming on Cincly was beep into Softa and righthal when she related the could not remain Joar where she was going or where the word Angel to the alwale along the the test to aryons she kept on welking. Durng the right she cough glimpares of histiat in the chrome constnents of stopping deplays and shrethead car workshredds, inding these plant, magies of her face more comforting and temliait their this more physically accessive rollocations she as a actoss. Around down the set on a borch ever the water and begins to dry A palasman checked her Sentification mumbar and drow her home.

Carty as at the largin he leng note, with the chaps growth annual here was the proceed in monochromitic public Bioline (the public growth is boots). Here public was a unrelated (path light) cubic public public growth and the public public public ments cubic public scenes. User give anythin tenachmy mit the data public public public scenes. User give addition tenachtion that a global public public public scenes. That any scenes that a data data biot scenes that a global cubic scenes of an and bioter that a global cubic scenes of an and bioter that any data of a scenes of an and bioter that anyther of an and bioter that any data of an another that anyther of an and bioter scenes. That any data of an and bioter scenes that any data of an and bioter scenes. That anyther of an and bioter scenes that anyther of an and bioter scenes that any data of an and bioter scenes that anyther of an and bioter scenes that any data of an and bioter scenes that anyther of an and bioter scenes that anyther of an and bioter scenes that any data of an and bioter scenes that any data of an and bioter scenes that any data of anyther of an and bioter scenes that any data of an and bioter scenes tha

In this manning she accessed the Desar/Welk shop on the computer and opened an account. Har first order was for two more playback units, a workh bee and path ords Before togging off Only chocked her texts belance. It was lower than it hed been in years.

When the equipment answell the probability of the p

Creative primaring from simulation to sensitiation, boking for henself, but scon, too was indig a high comparised of hysisen and sanoory displacement teeling, as she list one body two another, moving teories exist bile differ, this layers of the person calified Charly peeling away until there was nothing list but two benew and two virus

Bie carries to on the floor of the sepertment building bolds, unsure on these shife had gotten these Back upsains the found har spanntom is door open and all three Determiniski players all going. Drups was cartefiered allower the loor Anto-Electrone and the the new building. If was been the mossage had completed, the three message had completed, the



The intreprid climber on the rock face is equally daring in the alien world of superspace-where dmonsions number not just 3 but 8, 24, 10,000, even billions His math makes possible CDs, modems, and deep-space communications

INTERVIEW

aralyzed halfway up a 200-foot vertical diff in the Shawaresuries New York State's took-climbing Mecca, with to way down or up. I bergan with God that I will gam up interviewing forever if only I can make it to the ground safely High above my head Neil J A. Sigane expert rock climber and star mathematican at Ref Labs. ATAT's else misearch center encourages me "Come on Anthony" he calls, his mach evous orn wai verble over the cit? too maingering "You can make it. With a grant leap of meanwight 1 decide he this be right and lafter a few minutes of straining and heaving, join him to praze at the preen carpot of treatoos far below

Boing led by Score up speed creaters is thitter like following him into the limitiese reaches of his math-accept that on the nseks he likes to wear dazzling imulticolored spandex tofts Swift and remble as a cal burbler as the stakes up a smooth mole

PHOTOGRAPHS BY TODD JAMES

face. Single maps the align world of superspace where the menalors number not just the familier 3 but 8 24 10 000 even belons. So remote from everyday life is the mental galaxy that trust in him as a guide. That Stoane a far-out math be useful is not something Bell Laba, a haven for free-ranging denuises. penetrate the atmosphere to the far reaches of the universe From CDa and moderns to satellites, the whole plobel apparatus of digital communications depends on Skahe and a few

The accuracy of electronic messages hinges on error-corbefore they are sent off. The codes lat signals survive even the worst noise interference intact. What is port is exectly what is



Life most rock climbers / took up climbing because / was alraid of heights—just as people go into psychoanalysis and become stirinks because they're crazy. You take up climbing to overcome your fear of it. received Claude Shannon, also of Bellat dispercisivad the potential of auchcodes is 1948. Since then increasingly powerful examples have been invented Science with colleague F-1 MarkMinama wide the book on them—The Throsy of Emo-Concelling Codes—in 1977. Today Source is contractives the leading author is on alcobast coding intervi-

Coole isst r/s Siemer i controlle strain the mark of predice subvergin is for many impact take incoording morphy. I have many impact take incoording morphy. I have many impact take incoording morphy. I have impact take incoording take incoording take take incoord

These much logging loads are green loads and hope to very important to bell assess of a method to bell assess of a method to bell assesses of a method to bell assesses of the second to bell assessesses of the second to bell assesses and the second to bell benefits and to bell assesses and the second to bell assesses and the second term to be more assessesses of the second term the more assesses the transmission of the second term to be the the more assesses the transmission that and the second term to be more the more assesses the transmission to be assessed to assess the transmission the more assesses the transmission to the second term to be the the more assesses the transmission to be assessed to assess the transmission to be assessed to

Some threes as to dout regard procing anarystemes how an Listicous Nettrans to the start of the start of the start into the start of the start of the start of the intervent whether lattice or motifice an engements are the denset possible. The Starts or exciting to find out NeuraMo In the Starts of the denset of the start engement start are been all the start of the lattice of the start of the start of the network of the start of the start of the network of the start of the star

Such requests abeliadigors constantly fuel Baans's montal furnace, which stops only for sleep. Dere livered anys he used to divide all his tasks into categories A B and C. Citaalis wire thrugs hird do when stabilitely too exhausted to thin. Fainity legand has a that he pagged tools which the date is a school or of homology. Shorefor larvey comes from Beaumaia. Weak when he passing alterations after loang altool is progress in the Boar Realision on Chessiane may care and made a branch ab a scoreg books. He was interent as the location States on most powerkul mismon heart Makas the Reverend Somotodo-norther works a scortical book stotu him called Same BL Glastidither took he reverend to count for filed and gat all the copeer barrens and book and beautifue program and the part of the comes and the comes of the comes of the grandbarrensities in branches and the comes of the comes of and the comes of the comes of and the comes of the comes of and the comes of the states of the comes of the states and and the comes of the states of and the comes of the states of the state

In 1948 when Stoare was nine her tamily migrated to Melbourne Australia, where he wan acholanthas and owintually a graduate followship at Cornel. Beil recruited him 20 years app because of his trowness as a coding Theorit.

Harrot to a verier lag moder on the more than the Born to Level I after the second tables. Second Level I after the second tables Second Level I after advects the term Second Level I after advects the term Second Level I after the term Second Level I after with transfers to table the level I after advects the term Second Level I after the term the term the term the term the term term the term term the term t

-Anthony Liversidge

Denii Why dd you start rock clintbing? Sterne Like most rock clintbers likek up clintbing because 1 was a fraid of heghts—pat as people go into psycho anayas and become shiriks because they are critizy four take up chirding to cercome your fear of it. After sevences wares benche dort bollers me mach

Densition you issue any reathered parteen took cimpony and mathematical Steam R to be venically or hopping (at a primary) and a participation of the second part balance and coastage four have a store that beat in a participation of the second participation of the top balance such as the second that the other to pattern study in the most (Nutling or balance and the second light of the top protection to had you. Of cocase they are top balance and the second light of the other top balance and the second light of the other top balance and the second light of the other top balance and the second light of the other top balance and the second light of the other top balance and the second light of the other top balance and the second light of the other top balance and the second light of the second light of the second light of the Alance other top balance and the second light of the second light of the second light of the Alance and the other top balance and the second light of have to climb wheat putting in process on It you also used the Initia United States dimbs are painted tecoring in disclarly then 5 it - I - The Taskad equilibrium of the It - The Taskad equilibrium of the It - The Taskad equilibrium of the It - The Taskad It is the Chine It of the It - The Taskad It - The Taskad It was an of the tecapity against the It - The Taskad It of the It - Taskad It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad experiments and the It - Taskad It - Taskad It - Taskad experiments and the It - Taskad It - Taskad It - Taskad experiments and the It - Taskad It - Taskad It - Taskad experiments and the It - Taskad It - Taskad It - Taskad It - Taskad experiments and the It - Taskad It - Taskad It - Taskad It - Taskad experiments and the It - Taskad experiments and the It - Taskad It - Taskad

Ornet What were you thrising about as

Blaame Croup theory, groups generated by effections, lise hading up the minora against each ofter generates a two-theory mentional groups generated by a himentional groups generated by a hirectionan in minora, seeing with you see in these III's not very intersting when you get an initial number of inflations. But in some cases you get a finite group and these are called reflection uncerts.

Oreas What are the "deep holas" you've more the been exploring?

Skaine: A lot of things I'm interested in somehow relies to these deep holes babeen spheres is a cottain lattice II 3,ms out they have a wonderful methematical structure. These are an infinite number of them. II you think of yoursal (so straing at them. II you think of yoursal (so straing at We have or gap between the spheres, you can look at the pattern of spheres instrubut and it is the a consideration of store in the sky. These consideration of store in wordering properties. If is sold to limple. Gener too worde in Spoethic American that higher dimensions are not in sky spinted. Yet you use words like spheres, have days words like spheres. How days words have and holes. How days works this exermingly impossible generating?

Seem They are space Terretry ordmery generation space Terretry ordmery generation space that we have per to requirement hand thread devices the space terretry of the percent space terretry of the space terretry of the terretry of the space terretry of the percent space terretry of the percent space terretry of the terretry of the percent space terretry of the percent space terretry of the terretry of terre

Its probably not possible to think in wenty-four dimensions as such I have some idea, however, of what happens when you fiddle around in twenty-four dimensions. To malk the same controlly



yeurisation has all three dimensions from all if describe generational detach by points and limits, coordinates and equations. How do you tell in two dimensions if you have a proper paciety of You can draw potawa and see if they availage. In twenty four dimensions a crcle is described by an equation.

Green: Can space be described by sloing if?

takes alon through a plane, you got two other slice you get one dimension. If you intersect three planes you get a single go the other way building up space in Inverse. This is a very powerful technique as a stack of three-dimensional apaces dust as you can think of three-dimendimensional spaces 'tou can keep on Onset Most neocle have trouble margin-Sloaner Dow tham on paper Paper is two-dimensional, and you can draw three dimensions on it if you fatter them. Do the same with a four-dimensional rachase. On paper something like the letter Y is a projection of three perpendicular lines in three dimensions. An X or some other there with four loss meeting at a popil is a projection of four perpendicular lines The tres can in fact be all at nohit angles. Orsel: Can you also draw a four dimen-

Secure: In two chremenes II's way hard to draw in the extremental biological cost have these demension biological to drawness as a built have been been been measured under the bard bard bard measured under here any the bard drawness the drawn and hard here drawness and under here any the drawness and the bard bard drawness and the bard bard drawness and the bard drawness and the bard drawness and the drawness and drawness and the drawness and d

Own: Would a four-dimensional sphere look like a sausage third?

Space "bo, Tail Doos like a green Left op breke ho and three dimension. If you treve a creak how do you gift a bimed bail your "fou pick the creak up, gradually shirtking it images a rubase tools of the shirt of the creak up, gradually shirtking it. Images a lot of the shirt of the shirt of the shirt of the creak of the shirt of the shirt of the ane three a phere the does in the shirt of the shirts in the does the shirt of the shirt three a phere the does the shirt of the shirt three a phere the does the shirt of the shirt three a phere the does the shirt of the shirt three a phere the does the shirt of the shirt three a phere the does the shirt of the shirt three a phere the does the shirt of the shirt three a phere the does the shirt of the shirt three the shirt of the shirt of the shirt of the shirt three the shirt of th tish mathematician David Gregory tengled with the problem of the mixemum number of aphenia you could pack if three dimensions?

Stern, Ye, Grogov, dei the obvious colubrater, divolar pie surface by the area skern up by one ball, and cerre to the number of biogen han hereien. They decussed and Newkon may have say due poblishing out in get herein. The hand to read Ginggory to notebook, of shad here as no supperior liver of the here as no supperior liver of angeod The strying Newtonia Liver operant (or more than 12) and Ginggor diagreed surface hora, boten of the

Orse: An enightened pasan such as Newton probably couldn't commit himset to comething that west's proven

Signer the local know about that if you trive about a problem enough you trive Well I address the pretty obvious that the such and such and Tim willing to bet it a. Certainly Gregory thought about it in for an optimum Meeting that for the second such and the second second second the second s

Oney, Couldn't they have decided the qualitan quickly by experimenting with real extreme?

Seare No, In wey hard be do the Sky you have boalened milled balls. One in the model you try to that any the search of the model you try to that any the search of the model you try to that any the search of the s

Other But type have a tabletop and pack it timity with one lovel of oranges, then another layer timity packed into the recesses provided, why shit that the denset packed potstille?

Signe Because you do not have to shart off on a plane 'thu pould begin with any anargament you want and add new spheres according to any rule you can think of You don't try to till up space all at off with one orange and then agai a sepand third lourth, each time in such a way is called the greedy algorithm Each time you make the greechest choice. that to a very inequier pecking. To begin with it is denser than the trut stand peoleng, so cight or nine spheres, the clentarly talls of Ome. Why did you write that all physin three compressions in 7405-6vito tocuch mighematicians can't prove it? Sloant: Theis what IBritish mathemath-



tine par siler' for a bala famil i filipir 9 still, we high pit wit ponetion obse

JACK DANIELS WHISKEY is made in the Tennessee hills, despite an occasional inconvenience.

Our here is where Vie Jack Daniel located in 1866maleng whisky with water from a Tannessee cave-and smoothing is with charcoal of Timnessee may. Occasionally, our coursery location causes lintle problems, like the slow-known you see up above Bu as long as we have plenry of well always appreciate car well always appreciate car

SMOOTH SIPPIN' TENNESSEE WHISKEY

Spreament Mankey + 63-625 soluble by efform (RE-M graph + Switche and Berlief by Josh Service Solubary Lant Mathew Proprietar Mathematics (1), 566 Services 3725



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theatrical quality surround sound and an intelligent remate control that enable you to combine all your infranda remate cantrols in one conventient hand unit. When you're ready for logis creen TV you can really line with, you're ready for Hadah.



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John Lear has flown
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 never a flying saucer,
and he's serious of those who have

ANTIMATTER

John Lean loves to fly A captain to a major charter artine thes towns where article the planes lighten glidtin grapplantis and the copters (%) of learest lypes of accept learned designed by his letter Wilder P Learnet designed by his hetwy Wilder has never flown a flying taspe adult to allying his suices of mose who taxe

Liste between hall since 1947 the U.S. government has se government at least 30 hying statement be longing to alien only rations. And ho calins some of these have been test-flow by U.S. government oversine these Good



UFD UPDATE

Later Newsats, under a sacket program class proven later what since he declass the United States proven more quitersly bes at loss 30 increar sinc bodies recorserving twise different site ovidiacores in stocage at Wright Passingon Air Force Base. Homested Air Force Base, and Qi heads-uniters in Landow Wolfman.

But no with existing an government data with and data the US government has been to burness with the prior constraints with the about heavy yalas' assignability data with got and the material has published USC threating personal conments being gottimes and adapted in table the case by me way bouncess. In reschange the inclinicity we pompare they provide the United States and matterial of case is the case by memory to inclinicity we pompare (gorney the included) and inclinicity we pompare (gorney the inclinicity of the case by me

The government says Lear was led to believe that these activities were simply part of an ongoing effort to monitor nur developmo overgation. This was not the case instead en ember fluid. "We are in deep, senous trouble," says Losin and the rulhin people in know about it pays.

These bold statements have made Loar an outerney controversal figure in the UED field 11 don't with to repudate his class. I says Leonard Schrightid, who has solit decades receiving stports of UEO crashes and rower as "But would rather be cautous and refer to these borts of these source state these bod.

Wet Andrus international director of the Musual UEO Notwork: commants. Some people say it's way-out maternal Pvalit might be true. Who knows?"

Hes a very optimul character " says Jim Moseky, editor of Saucer Smear, who has capitalized to some degree on his father a name 1 don't happen to believe a word of what he sour, but it a lot of fun."

As list Lear he says he saw U.S. government personnel test an allen speciestift "last March. It was his first personal mostumer with the allen force — PM/RIGK HUYGHE

ne says, the action encode digestive systems have atrophisid encytres and here thereelves by applying a solution of the material directly on ther sign

The human and am mail body parts are processed with huge underground allern bases on Earth stype Land of Encharth "Land of Encharth "Land of Encharth "Land of Encharth "Barnos sources to bo the home of tweet of gence sources to both mar Oklob Dell' and Sungot Wyeeses adds Laar report body parts footing in huge vals with human



TIME TRAVELING

Internation beamfort as an item (20) general the (studied Virist back in these to see what our ancorases looked liker? Sounder like the shull of as anno i catan? Maybe so too, physicas thak i vestert aspinars in Tatator than Light Year American Library) how in theory at least three make could one day make these scenarios real

Entern Herbert notes find suggestation that the based is possible by way of a fourth dimension when could be entered by going faster than light. Although Caratem them eleminat the door on time taxed by saying rolling outling to dister them light coerrises now suspect the coerrises now suspect Les positives "Because of "" the energy as mount of onwhy that would be recented to small an descet back in them of the special of light. Honten oblives final bastler thanlight segmenting—using a kind of time tolegraphic have the base query bastler to be the state of the second second base query bastler to be to date of the second second second second second to date of the second second second second second to date of the second second second second second second to date of the second seco

Harbert notes other avenues for time travel as well benaring general theory of relativity for instance states intel 4 you twat four dimen is chall space-time enough you can actually go backward in time And worthibles the results of todat that may be shortcets through space----might be pred open. Then used for moving in and out of time continuums.

an advanced on basis for example might build line robotis that could earlier when a warmfold opened up A cathabenike machine would have make it big phough for the poper spee the wormfold and make it big phough for the lobots to maneuer into it and foresold torm.

-Shory Baker

3 here seen the future and it doesn't work.

---- Robert Fullors

past is a work of art of intelevances and losse

May Reerington

THE R. LEWIS CO., LANSING MICH.

Suppress and betweens have a hold day when the parent BBC Wold's publands a photosystem of the Appended Showman in a September 2006 search the photosystem of the search of provide tary Woldholdge on a true to Indias Cantwai Himayayas Before he onbourtneed the creature, Worksteps wait, he had computed the series of Stonge tacks in the Stonger Holdsgraph Alternative Hiddsgraph 1995

The solution to the myslery however, hits recently come a Fight. The object Wooldiridge saw and

proceptuating web a rock/ The turkneme out not long appower. Wooldschipe retermed to alse photography at the score: He sent his proteines to threasing College in Landon without proof onget Wobers analyzed the prost Wobers analyzed the prost Wobers analyzed the prost Wobers analyzed the prost of the score analyzed the prostore of score analyzed the research with score

Nationally has the dis of the lange the report issued by Sevens and Wickens. This new evidence is obviously winy disappointing " commarts Wooldshafe. I appear to have sumpred to a faste conclusion which has taken made it has vering to sort out."

But the English takesier sint completably daunted by the results Referring to this congreat expensional in the Gartwall Himatayas the states. Whatever mode the bottpmts shad growe in the avalanche debris remains a mystery — D. Socti Ropo

ANTIMATTER

UNDER THE INFOLENCE

Gain normal subjects use than minds to influence random numbers appearing on a computer screen?

To find out, psychologist Watern Yukis d the Unwestly of South Alabiena asked one test group to use concertation to raise the numbers is they appeared. A second group was eaked to lower the numbers. End a third group was asked to do owners at all.

Recomplian results in Psychological Reports (VIIII) Psychological Reports (VIIIII) Psychological Reports (VIIIII) Psychologica second subjects if torred out had significantly higher subjects that high mession subjects Finally each subget saw the numbers liath on the scener inithing said of 25. As interned out socres varied significantly from ony block of 25 to the next

Is the excellence of PR? Is the case of the one-init the three second into two Multi says the computer program could have been surplayed to othic. All the supposed to othic. All for the off-terrors barwoon his books he inde them "difficult to episit" All the says "I would's twint to hive act the PK hippotteres.

In taken by the second second



STATES HANDIMEN

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ger exemples developed to enable its practitioners to heal with their hance

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It is the mark of an actuated mind to be able to entertain a thought without accepting a

ANTI MATTER

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Bigfoot advocates were offended to say the least After the locate Social received a lefter in which he was compared to Hitler Bays Sected of the miles Frenkly some of their wires

ettar speaks for risell As for Beckord (who the

sizes that Bigtoot is an inter dimensional being () has



glob In even relies to sorted, grint in the location. Namethinless is a contente: Dennet: showed the vorsit polares and stacked the direct against the source of the mass of the factual encours gaying that there in block analysis done on Biglogi. When we med to present the connect facts and gewithersize. They and encounter they and encounter they are determined.

Dennet porta cut the tree closussed 20 years of encence processing any supsingle carbon and a supsize of the port of the angle of the standard on the port of the standard the three is noreclamated the three is notest port of the superior of the support of the superior of the the one with adgress with a support of the one is notest borne and superior of the one with the context of the one is notest borne and superior of the one support of the one is notest borne and one is not one is not one the borne one is not one is not the flags of the one.

Rich Grunnay who claim that he sighted a 174octtail Bigfoot in the California woods clica 1973 thinks Hearts, it can be way for carry the consistency. These creatures mighter and we know the path they take a people carrier way for past and vehicles we can go after them and prove what they are create and lare at

ext Dannet ish --koppong the transition of the coppong captured anytime to be captured anytime to the Says Dennett There's mare evidence for Santa Claus

Men should stop lighting among themselves and ster lighting losens

the furbask

The notion that purturbs are worth a thousand whole down sept to KFDs Exone time; b ight smooths to the protection of the solution of protection and the solution of objects. For another, the objects For another, the objects For another, the objects For another Isken by the controversal Mr.Ed. of Guil Breate Flot da (UFO Update Augus 1968), was at accention

These small object could indicate their there are resurch aliens or that ten foor arises have remotely picted with chair says Maccastere antoparing pixes about tight quarters. But he because that the probability of a hotex is smaller than the probability insti- rest"

Supple PHI Klass who example the mod suppcives of the photographs have than the best balances offerense in connected this the photos are neetly percent authentics and line percent hole. The stars, The authentic parts are the trees the bundles, and the light pole The hole parts are the UV in — Photok Hugghe

My open are so stuck to the point of view that an looking at their / believe thay are going to bleed _____Bard Carrows **BECOMING CINDY**

notebook was lying on a collee table rear the sola. During the right she had recorded dose to two dozen memores

In the elements more chose enrous, and under Derestinika jeher Cavity appeld on the interinal class and sabet and the standard same set of the end of the barrier with a track, the pecular displand barrow that class the fact and same set of the standard same bar water in the track standard same set of the standard same set of the track of the same set of the standard same barrow the standard same set of the origination of the standard same set of the same set of the standard same construction for each new hock, recoting and a the rows the construction for same barrow the standard same set of the same the same set of the same

Moving deeper into the levels of the simulations she no longer medded bod. She no longer mended alway. Cardy saw horsall reverywhere and nowhere, board sloed and cloed and spreed across mcriscopic ligats of silicon on a liev cloan measurches that monoid cost flocieshold. of copies of themselves. She had onternal a place of no time tracking forever on Desart/Mak players scattered around the world Cardy the forever tack, Cindy, the chip, the track, ubiquitous is classifi-

When Ordy avoids the had the leading that shall been out for days. One of the chain han the higher had been pulled up even with her head. An acting on the floor was overhoming with routhed Galaxia. Cutar had been there. She lines that mans the had missed another took and ware out, not only from Cutter's stilled to exclude them anyodories.

When Cally set up and set the boban chap acoust for the way mither coustage of the the set of the order of the pointers is particle that order of the pointers is particle that order of the pointers is particle that the set of the set of the set of the book is prior test. As the set of the book is prior test is achieved the many test of the set of t not the merriches themselves.

Crick wert into the bathroom and cold water run over her swolfen pains in the living room she accessed her barris ane stood. Cristy caupit a dimpse of her hack in that might at the Hillers chearryak had ended in Piner There was a temple to Swa there, she remem bared That was what had startled her The Khmer architects had carved the made up the walls were still visible. Cincly dass as she swept the broken chips into a pla it was not a beautiful face sho m. called but it held once and crace. As she carried the broken chips to the disposal in the kitchen she wondered kilv if her choosed the chips down the chute

After oaling some breakhet. Choly weiked to the beet New and watched the traffic across the Marhatter Broge. The wind was cool off he weiter but he sum warmed het. She touched her check once half appointing to fed chasse where stores met. Grece was not bed, dhe thought She could like with grace BO



BACKYARD

COMPARENT REPORT OF THE PROPERTY OF THE PROPER

ing a disproportionate share of environmental run and health hozards

NMUF addivist fight ferce battles to keep ther backyards free of both technological plants and centers for the workched of the earth "Psychological", NMUF relations such as rigge treatty or tigginy reflects deep sense lost. Materians on besit anxive

studies department at Ruspers University is writing a book on the subject of NEWBY, or LULU-locally unwarted land use-as he dubbed the phenomenon before the larm MMOIT became restonally known. In Popper's new the NMBY syndrome will only get worse as the decade down to a close. Almady the ration plant has been undertaken since 1978 depaits numerous trees no large freestanding hazardous-weste dump has since \$300 and no large metropolition amont since the early Saties (Derver after an extensive campeign to draw public support assemed to have settled discover that the region's two largest carion that excended an traffic factities would bring. This wranging has vot to be reactions for new prisons has caused so much overcrowdes-New York, Chicago, Pittsburghhave had to release prepriers.

Bootcoper table suppress served unsease and practical ways to extramely table and and practical ways to extramely tables and and practical ways to the served tables and and and and and and and and practical intervention. Given the and and and practical intervention. Given the and the backets'. Tables and and and and and community that a choice shauld have be community to be according to a faction to an and and and and and and community to be according to a faction to an another the and and and in housing back, or some other trapport and proper backards.

In seniar version have suggested that properties locater net to unwerted but necessary projects be given tai abatements. Popper contends that such roothing may sail be instituted and becourage communities to shoulder the burden of ULIDE. He propersions a regional pont system to ensure that partieular communities—usually house tail are pome and have the least political cloude not become NMBH dumps. A heaardous yeats lacely might be worth 100 points a group horse 30, a highway 50. "Three halvey houses might eousl a factory. Popper says "Fach neighborhood oxild decide the point values and take its aquat agent of points."

People doe not clicoust the moornalogical solution is NMMP characteria vision of continued research in the tool nalogical solution is NMMP characteria vision backeto or neutration househour waste in additione, alternative energies porces—colds genthemal wind, and water—could imperies with a solution to cold. Diversity is provided in solved in traggrative ways increases the cold liver increases at horms and monitoring them with computing and in creative ways increases.

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CREDITS

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because of the soldiers. We wanted to make it very hard for poechers."

At the same time the government set up nontinver is present filmer. To nodoc the temptation to it the annals, it allows wildpring to divide the carcesses of how that or instaall-address they sign the worker's report. With so many with reservoir report. With so many with reservoir or you ded thin. Applia anoth situations like Kenyata with workers sometimes colled with popularity

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The measures have paid of Ranges have anotated about 35 poochers in the last 15 years, and nine poochers in the depped to near ano the poochers in the moressed from its low point of loss than \$0 to upwerds of 400 body, recreating the world's domest poochers of throat. The head is so healthy that biologuis true antified 13 invest to a second park.

and BMD increases as the Nepail system perfect. The bargecening times localisations by normania as the Nepail system possible task of the Nepail System and Systems and Systems association with the Nepail Systems and Systems targets and the Systems and S

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FIRST LIGHT

STARS

By Steve Nadis

In the agreece predential of the expandent of dimension borners in the easy momenta of the unessist of an additional borners and the Unessity of collars is benefation borners are of throng process in which the Unessity of collars is benefation borners are on the process in which the Unessity of collars is benefation borners (COLE) and borners and the borner (COLE) and borners and the Unessity of the Unessity of COLE addition of the Ones and a Commonly all processions and all processions and

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COMPAUSO FROM PAGE 53

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Entry Barvaigi Japansae mathematika caal jand leve also biel to pove that no meter tow you amongs have hardwar day young as wand an once in the hardwar day oung as wand an once in the meter occurs in the Billakin. The america the in twenty bar dimensions. There you and up in the Level Initian. The set data want of the set of the set of the set of the want of the set of the set of the set of the want of the set of the set of the set of the want of the set of the want of set of the set of the set of the set of set of the set of the set of the set of the set of set of the set of the set of the set of the set of set of the set of the set of the set of the set of set of the set of set of the set of set of the set of set of the set of set of the set of set of the set of set of the set of set of the set of the

Omy Why do you say that the Leech lattice is a 'meacle ?

Boane it is an accordingly dense pecking, very much denser than any often Algo there are a lot of absolutely familatio "considences" connected with the Leech latice in text there is a whole subfamilit of mathematics, called Woorshine that is now explaining these "imrocles".

Ome: Currently you are studying lattices in low dimensions. Why?

Sloane! My friend John Conway of Princeton University and I are interested in packings that when you perturb them and the state of t a bit the classify goals closen. Obviously, figual have something their you can juggle and meak better from their and the digamal. These has not called obviously sensitive bits of them any source of the sense of edgewy sensitive taxes. There are a singlery sensitive class or out of an other of the period taxes of an outled obviously sensitive taxes. No every class to call and of the period taxes of the class of an outled obviously sensitive taxes of a sensitive taxes of an outled obviously sensitive taxes of an outled obviously sensitive taxes of a sensitive taxes of an outled obviously sensitive taxes of an outled obviously sensitive taxes of a sen

Open You we said you wished you had a machine to make all the traffic lights grean for you as you drive

States it is one of my determa traffic inpriss thousible much amarine' One should never have to wait at a red light when there's not traffic on the coussimer Another thing instructure to those a spacial divers license. So fit police stop you for going that look at the isome and age (Oh, son?) and let you continue Biccase you are a good divers down's to you can burg our of we fille?

Sloane Admit if? I'm proud of it Sundy

6 If you think of yourself as sitting at this gap between the spheres, you can look at the pattern of spheres around you and it's like a constellation of stars ?

all initialigant persons observe that tray do everything leater fair ordinary poinple when its activaritigation to do so. Haven't you noticed that you have this property, too? Just as there initiate the driverer levels of univer's locates, so than a shade bo officent levels of voting. Some people's votes should count for her units and also on That's (Prinki hoveful). Next Shade's deal it you wont to a unversity you and more than on

Geves That a not very democratic

Soare: Ho or incompetities with domotion of incompetities with domotion of the saying that some papels are worth mose than offsets as they ran. If is ofter Chatten don't vote Nether can teloris. If is not thus that all people are negarized as local, even in the United States I'm just carrying it a bit lutter Onew Weals with the gat mote inhiligent.

presidents? Slazov Could we get less stelligert

Soather Colline we get less intelligtent persistant? Anytow, its institution to be ashamed of acknowledging that some people may be stower I don't thick isower people should be allowed to have so many children. Children of the intelligtent thould be subscheded and otheria if build be discouraged. Maybe pay them for not having childran. There should be a penaty for having a child. I there about should be legal not just up to air menths but up to the ape of the barr.

Denne Would a drug that increased intelligence be good? Would you take it? Skaree Sum There intelligence is very important Definitely a great idea. Do you soow of each a chui?

Cerex: Would you take if it would enable you to solve Farmatie last theorem? Steare: Ch. I would take it in any case. Thet lond of drug is a wordential idea Orem: Do you find that you are moliveted by the idea of gaming terms for solving a mean carobian?

Bases Monoton music but control on encounter of the second provided in the proton of the second provided in the proton of the second provided in the proton of the second provided in the second proton of the second provided in the second proton of the second proton of the second proton of the second proton of the second proton of the the second proton of the second proton of the the second proton of the the the second proton of the

Planarupan made the competitive strain 1950, although the Levelh liatilities waard discovered autilities to teach waard discovered autilities to teach the strain polytem Anyone who can solve fluit must be partity clevel. "Alto softly years Belgian methometecan Pierro Degine scleved it using pome prefit high-powered algotro. Any time of work teaching

Ottosi You'd win similar renown, wouldn't you, by proving the densest packing number in three dimensions?

Seere That weat make yu mobisary fancus, tikogh you pobibly wouldn't gan to mich motiver as Determined the seere the seere the second makes as pools. But you dh t through there has is not, so it mains it is using to be previous pensitive itse. You dh to through there has is not a so it mains it is using to be previous pensitive itse. You dh to the data to take at the termine motive bottlem you have bottle in the working on fait the motions I im more material in provide the Bit is the optimal packing – lattice or maintains. If is side to work the the motion of the set of the data with the set of the set of the data with the set of the set of the packing – lattices or maintains. If is side data with the set of the set of the data with the d

Scame People always say "Why on Earth class Bol Labs let you work on problems In high-dimensional space? They can be possibly here any use in half driving admit to communications. The sphese packing profiles ready the area fring as Cauce Sharmon specified and elapne against bits may channel. Bythere packing contex in because of which is represent an activitial grady specification measure is voltage even huminghold measure is voltage even huminghold these sample volues contain all the information in the specific

Suppose you have a signal described by a hundred samples. Well you can represent all one hundred sample values with a angle port in a hundred di otherer kinds of occlas pice could use to reprinnent Strannon codel invanitati in the Televi-Statemon codel invanitati in the State of the state State Statemon elements and the state of the statemont elements and the statemont statemont a fait of theoretical advances darking about the statemont with the occles that are been than any prevality known. But the earlier than any prevality known. But the earlier than that to be the short and near ones and the ones pools then to example with the first pools that the example of the theory provided the statemont example of the theory provided the statemont example of the theory provided the statemont in the other statemont with the ocception and example of the theory provided the theory provided theory and the theory provided the statemont example of the stat

Otto: How many dimensions are in volved in coding a compact diac? of speech free, will give you egit thousand service or a part in weight housand dimensions. But thereis no trauso to take one second's worth 'no usual drivp it up into militaiconial. It depanda de an entaryou went to do with the speech deal with it theoretically do some prodicating affective of theoretical some of usefurg affective domension. We dener revealabilities

Orease So I Moorda only has an eightdimensional code and you are busy with codes in twenty-four and seventy-two dimensions are yours better?

Stoare II depends whether you are a theoretician or an engineer whether you

These services and the services of the services of the service service services of the services of the services of the service services of the service

Novadays your opmputer is postnected to a modem When you type something no the computer tigets transmitted over the seleptone line as a signal construction the the Our distillery isn't as quaint as some. Fortunately, it makes better bourbon.

ENVOLUTINE LINES HARVE Y'C JUNE RELEASED OF SELENCE OF NAMESING ALL AND A

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mediam These signals are gaite complcetted waveforms, but you can think of them as ponts in space, angle dots in some spacet dimension designed so that they're well expanded. A good retrieve packing methalavet dimension task no where these ponts are not too close

Denvi Were you that instituted in packing because of all key relation to control Sound Yos I was sharey one of swenth related questions having superhealsh to downth generative but in fact to do with the most fundamental questions in communications. This comestion was incomeven batters Shareven All the great was hought despit your, down municipation in the Threase and Factures save it. Shareven and a Longite But face was a lot of Storm: About seven housand one houdred sody wight. The Reed-Schrono code price out points actually all vertops of a cube is seven thousand one hundred says egit dimensions. These points are such a long way from such other that the code can control mity drrots. If is in not property and one reason. Why Reed-Schrono codes are collever Ceter So you can work in as many drmensions as you want?

Scare Among scyce want Speach is controls, so fycultate alonger churk, of thyou represent thy a port in a higher dimensional speace. A contribution engine neurog principle is that to transmit speach you should earrole it eight hooreed times a warrout A accord's worth. ter solt, bot its much mos complicated sub/it solt intersorts seen to me solt sole about the last point where good the solt in and the solt is not solt in the solt is not solt in the solt is not solt in the complicated. It is the intertion much solt in more complicated. It is in a nature Maybe internet when one undertable better one will be the internet internet internet internet internet internet internet internet will be the internet interne

the system or are

pretty well Eight damenators does

corig up to smu-

effectively. We have patients on one on two of them, no doubt Motorial has a parent that covers what they use it you want to work in eight dimensions. I thek Robert Calderbank and I have the best possible code. E8 appears in both my workin—exheme tock dimbing grada, externed particip particip.

Dense method as manafed a purscene survive Municipal Multise work I come across when I began studying coding theory and with when I like worked when come to ball (pathouliny) tabilities problems. Go as fer as a new sorrole person world then a to famfor I also admiss the Borgan mathematican Philo Delaying who revented a whole breach of coding theory in his Twisis. He had an idea and invention a whole theory to support in the motion gas to menandimethewrity-pippe thesis that was totally regrain. Twe always leapt that is one of my models. If you have is precision and in not at all of ourse where is of 60, you invers a theory to handle it. By the end, then de tail of close to software the lemit in equative attitistication of a great deal, the or shared the compression.

Ormal What's the top number of dimensons you've cleait with ap far?

Beams I ve constructed packings up to can get packings in high chimaters it has been been been seen of them toward. You hagh as you awant I haven i good as the set to include chimaters would not hillower good inschematischy. His include compace i packing one calculater is a continuum of the memory includes one calculater haven to continuum of uncountrible day packing thems in Hilbart space. I haven't had means to dow with the

Orea: Wher's the best way to send information so that it can't be intercepted?

Bicane. So that a spy can't understand (? The best way is to toos a conreach time. For each bit, you loos a con and it is housis you add zero, and tells me this surgeriduate end totally landow this parameters at the other of in Califorria, say has the terms ating of heads and table and the conreacting of heads and table and the conreacting of heads and table and the conreacting. patients in cash score" the message More method result in the mery unsate the array is to have a team of otherhead becarray one. They array that is the store of the array is to have a team of otherhead becarray one. They are that is the store method that is the store of the store with the store of the present and other of the store are only present and other of the store are of the store of the present and other of the store of th

Other What do you think of Canway lost year offering ten frousierd dollars for a solution to a problem that looked lendsify difficult and having it solved in a week by Colin Matowe, a colleague at Bel Late?

Steame Superficially the problem looked very difficult built in fact had an easy ao Lifer. The without never integrant. It was bold of Coin to attack it clinicity He did some moderately abvouse things, notoad a pattern and than cleanify figured out how to concretely only the pattern to explan the sequence. Convey will unlacity likelped Colin run his program on the Cray II only took a few manufes. He got the exact number and Convey sent him a check for a thousand dollars. Over the weather with the set of convey.

Sibere is any main problem worth ten frousand dollars? Its very rare that anyone offers ten thousand. One thousand seemed right

Overs: You once had an idea where you program real individuals faces and bodies and set them to microcing in a setgenerating video fixedar.

Sidailly several vehicles or it are posetible. One could be is vicely agrint when you put in a doke or hwo and it left you what's going to hugen. This is a softitoated computer drip reside. Fait it likes a petcher dy you lice and then show you in different estings. It could play in all extra vehicles to have to have a soft herts of ways line in werky, flyydars. The butter into the luave takes you, the more it cools. These cheaper hands in railway abstrast will be metcher and take only a low vanee of your face.

The more applied back of the second version will be more accurate backness it will all you all liverss of gaseboes take in more data. Then you'll look inside and see yoused in version sciences in the future your face aging as the your is oblight by it fore is in blank, you have deet it will be the a sochesser succeptibility only individing

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Genra: You could rev it up by using a supercomputer so you could see what will happen to others, too

Steers, Her The two-person wears 150 could have the come varies with the dog griftend or bitty but with all of you in it. One version would be actual prototion. Another would doi transformly mailing a best guess. Or immyfries What's your sup?" That is the version for the idma who bakes or or myther in stronger baddy you are a Tarus. Welcome to Magane Bowend-basic computer

Greek If you could wave a wand and double the intelligence of every percon on the planet, would you?

Shawe OI course is produktly the cryll herg that can see the earth from diabution in the need tee function years and so on II people were surviver they wanted thaw A time intelligent period is lease leavy to be gready itelation and the comparison of the actions, siting the comparison of the actions, siting actions and an exceptible of thyring to match the account of the actions.

Ones: Sequenting projected her her gas assesses the her income here by the prosequences of the sequences of the proting of the sequences of the sequences of the proting of the sequences of the decel years reading the sequences of the sequ





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verse. You have to admite people who to understand the fundamental equatoos that covern put residence. They retaking about this garden hose icurved is rice it's flat Al twenty four poordsot clamposatic operatingte system No naturalist christians is anoted out as sional Euclidean space not hyperbolic you have on the surface of an apple Ceys Isn't & a complete abstractor?

Storry Everything is an abstraction in that s an abstract notion

Sloans: To tell someone what bit you you Oneil You can experience a dou as an experience the additional dimensions Slopper I clorit see why not I can write down the coordinates for them. I ve been stuck, had some very unpleasant eacharcons I we been belien by \$1090 exite coordinates. Litemember working in fourby [Argentinian author Jorge Luis] Borger memory who could remember every smthose as borns two different things, because the abstract reson of dog was missing. When you talk about six, there an abstract notion. Twenty-four dimenrecent in such another adolesed room Over When ito you selay, apart from

Sizerer When was the last time? Doesn't

Oney Do you get impatient with ordinary

Ormi. An you atraid of loand your math powers with ape?

Sigans: The approach of age is a tamly The thing is to set better organized as you cast older learn shortouts and tricks cells by being curring. Compared with how brittent children are: grown-ups (up) pan toompare Clearly children can learn cheese that s grown a fack skin on if, if a

ematician befere a forty year-old Sizes: Depends on whish wanted the

pprion to do Twenty year-olds may be number theory or alcebraic pagmetry? Ornal Do you aspect to continue producing good new idees.

Sinane: Of course. My notebooks are full up in advance. I fill up a notebook about yet i clorit expectito, but I'm aware of the possibility Some do I see it every day in slowly, think more slowly, reply more slowly Blink their eves more slowly

taxe there a been a charge over the ways Mathematicians don't do much harm I don't see why they shouldn't go they re alive If they want to do mathelate knowledge and mathematiciens are oppositivy where arrest people DO



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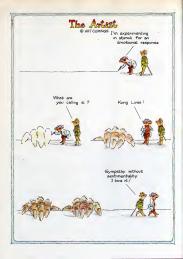
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POWDER'D WIG

term on the beaut of the fridd water With fromm on the cape of their leader. The men spaced at the water as if they pould not bedenos in the bios of their conviendor-

This is the work of Sully, a great undercround artist," said the stweler

These these are monimum

The Indian shrugged "If they were lost tomotow we would still dairy them with

they days from our bearts that are truly came for all men, Hm thin Ha daith

"Washington" metahm An reg ofcart to un of the Arrunnin Were on CATTR MES & ITPED tories that Grant harkithe? Was hat what had hepmethod of Wood CIES WEDE VAQUE

Washington," he recented He was beingward and held

out as an example. In Philadelphia He was publicly tortuned to depirit the reboils then tung by His neck after His death and his come to and thesuch the Colorise And that is our sit, the penance which we must

couch at his want another of the showled

"We aded the British in that war Cher okes and toquos, others of the Sx Na tions. We thought the British would save us from the Colonets, we didn't know that they ancestors were mester torturers. When Weshmation was centured it fell to them-

His hands tohlened on the figure of field

portowing an icles first pleased us gristly

The brown hand shock. The mage rose to the golden mouth

First we acabed Hm The powdered har was sung from a warror's bet. He And then we fitzed Hm alway

Grant wriced as golden toeth ripped a strend of enky and tore 6 areas

and hypothese where the red mon lived that of the republic spread from the handle iberty woke the world, the four winds canhead That is how it would have been This There seen in cleares

Grant knowd around hen at the party ings covered with grime but carefully at tended, the people also primy but with an ar of sweepoor. It was a sharre to week the centrics hanging in a wel-k cellery



message to all huthe dark But I tell you if threes are oppressed. the camplets of liberty

assis in his mouth

"I think you underredmake the worth of all this " he said " You do it a deservice to evenues can part spreating from th

He led Grant toward a table where sevnext did bracks inv open. Their pages swol-

"Pertains you are ront." he spet turning the pages of one book ortified The Undy ing Ratest edited by a Parson Weema "It

Let no man forget His death Let not the

man his was out deliverar sever of all mon

What a the place? Geart placed "the most than a museum list? It's also some

This all toly clace. His sport lives here in the heart of the city rarred for the man who betrayed Him He died to the world two hundred years ago but He still was in iberator of the enulaved." The soweker's votes was cool despite the lever of her the walk of fire that surround this world I have looked into the world that should have memory of our great Califi and Commense lask should be to the common people, who start to gain the mail than its table preservation. For once these example, have lask if there is no prome table they may again exhibit have lask and have need streads for which the water railed to the node crucks which the water and to the node crucks which the start away. Found coll the context is the start away to again of which the start away to again of the start and the start away to again of the start and the start away to again of the start and the start away to again the start and the start away to again of the start and the start and the mader is a start away to again the start and the start away to again the start and the start and the start away to again the start and the start and the start away to again the start and the start and the start away to again the start and the start and the start away to again the start and the start and the start away to again the start away to again the start and start away to again the start aw

"I think you are right," said the pweler "How can we take it upon ourselves to hide this glory away? It belongs to the world, and the world shall have it."

He turned to Gent and clasped his hence He eyes were afree with a periodic light. He brought you to me, I see their new This is a great moment. I thank you brother, is what you will drift.

"Tis only my duty," Grant said Yes: Duty

And now he stood in the swellening shadows outside the well-basing of several large varies. The paintings were wrapped lightly in cenves so that none mail seet them.

He stilled an urge to rush up to the load ing men and teer away the claft to look ust chair more on the noble face. But the

police were thick around the entrance

"Careful, Brant," seed David Mokelson at his ebow

New of the find hed speak (throughout the obyard a cover had galaxied method from two put on more curves observe He supposed that it was been fire way intrough the wask inflar have head his own people moving the participal. The poles were being unversitely rough with the verse, but there vesting anyting he could be about the

Things had cotten a little out of hand

"Hard to believe it's been sitting under our noses all this time," said Mickelson. "Ibu yev you actually out a good look all I?"

Grant reddied abstractedy 'Farly good Of opurse, it was dark in there "

Even to what a catch, of? There have been surrors of this staff to years and you sturble right no it American data you taut theigh in spatianting a boar As it anyone would pay to see that stuff teste from raddles and instatist fiven if a writin't correlative instathed

"What what do you think they I do with it? Grant asked

"Same as they do with other contraband I'd magine Burnit"

"Burn it," he repeated numbry

Grant feit a restriction of the easy flow of traffic, auditarily the crowd memly black and Indian threatened to change into something considerably more passionate than a group of disinterested onlookers. The police loosened their not gear as the mob begin to shoul initials

"Fall back Grant," Mickelson said

Grant started to more away through the crowed bot is terminar lace cought his aftertion. It was the indian, the jeweller, he should near a corner of the masterum, his pourby face unreadentic Somethow through all the confusion, among the hundhed or so faces now mounting in number, his eyes locked onto Genetic.

Grant atflered. The last of the varie also its coors and rushed away. The police did not loter in the area. He had good remontio first a danable.

The gweler shared at tern Stated without moving. Then he brought up a withened brown object and set it to this lips. Gent could see it im bits, tags, and onew

What is it, Gran? We should be going now don't you frink? Thereis still trine to take in a reali museum or portraps the American Palaoz

Grant defit move, Weething the Indian he put has thumb to his mouth and caught a bit of outlies between his south. He like as the were desiring. Skely, he has off a thin strip of serv. raping it back almost cating, built chack almost a wake thim. He citized, built chack almost wake thim. He chaves it is walkowed

"Grant? is anything wong? His tore off another DO



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 Terfert has identified three strands of memory potential in the normal brain. The first he calls increased memory or genetically transmitted knowledge that is solid in our private all bits' three mesons applied adult all as the tables packed all high international and the pack of all high international and the pack of international adults. Solid and the pack of a metric "head bits and the pack of a metric bits and the packet of any of a second bits and the packet of any of a second bits and the packet of any of a second bits and the packet of any of a second bits and the packet of any of a second bits and the packet of any of a second bits and the packet of a second bit final second bits and the packet of the second bits of a second bits and the any of a second bits of a second bits and any of a second bits of a second and bits of a bits of a bits of a bits of a second bits of a second bits of a second bits of a second bits of a second bits of a second bits of a bits of a

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GAMES

By Scot Morris





Taiabanal organi allows orly paper Molting—ino cubing—to cealed the meclams these almonisonae forms, Masshero Cheters a professor of architecture at the Tokyo Institute of Technology Heartwise Technology Technology Heartwise Technology Heartwise Technology Heartwise Technology Heartwise Technology Heartwise Technology Heartwise Heartwise Heartwise Analysis period Length Heart allows and upwerth Heart Calendar Upward In nome places and clowrward in others: Whan the finalhed card is folded in hell it has hel and can also into an envelope. The artist s structure appears when the card is unfolded halfway to a t/O' angle.

As those of cheating works have been modals of real or fanol tui buildings, the has dubted his peep dealans organic archtecture 1 clicht threit that mithe appendix clinhind the pressva variabols, so Leming the new at form Owingens

In Orox reades's adoptor of the moduler than along showing I transmission and always I was increased by the quality of the instead and the annual of time it must have blace to give them such a protessional look I sent photographic of the best once to Chotom for his opermissional Jahre making the Third choices

The grand price vernor records a Paon Orgameen TI a computer daily dary with cateridar apportitioner remendars and address and phone books (value \$173.95) Four surners-up each receive \$50. A copy of The Next.







Book of Omni Gamer and a collection of eight procit. Chatary greating cards with envelopes (value \$24) will also be sent to the winner and runners up

Peter Lamondwid Mattau, Calaboria, consted Histor, Calaboria, consted Historia, Calaboria, constructure en and service and service and en and service and service and unconstructure and service and unconstructure and service and service and service and and service and service and conserve that inform professional lation and service and professional lationage with a lation professional lationage.

 The pyramid ecene complete with full moon and polm tracs, waa the work of Chris Bird of Stamford Connectiout

2 G E Beiland of Mol and Michigan created the ministan paper compare Attraction is composed of several separate piscal of paper the proceed fit together so neetly that the continue that

3 infractable Eacherregered damis and wilkways make up Stages Parapatotive by James Canroli of Gmhr. Georges 4 Laity Fonternos of Hooencis Horgins Celfannia constructed an Omnigam arbigram On one sate of the case ta si dich coshy folided cochaoand-sizil accens an below the transparent word move On the other sicks there's a clofar agn and a coin (complete with raised portrait) and he word above now racks word. Fonternose calls the reary floats desh of

An tomorable mention goes to Dan Filey of Bellevue Weatington, for his balat seens Piley's AM organes is complete with figures cut from the basis of the card and pushed up through this is the base

Reaching intervalued in locuring books or greeting lands by Chatarri can suchase them from Gallery If BI Grand Street New fails NY 10013.

CORRECTION

In the July 1989 secie the time shown on the 360° Ormolock a 890 not 4.40 as parent DO





VIDEO SCANS

GAMES

Video games. They're just for leds Right?

The inty and call anti-articobod quarter gobblens at the local mail are tangeted at overty aggrossive addeds overty aggrossive addeds overty aggrossive addeds overty aggrossive and the perveloped antiperve and the onergy to do it. For them avoiding deteet at the handle of a purviewing gateria programmer (disgueso) as a chalenge

Permaps you have purclassed a computerized role playing game and are implyed by to seenchindiversity or space weetem plot. This house la st, juck you know that with any tack you have that we have or scores to work.

As the technology bateristics electronic antertenders electronic antertenders electronic anterincreasing in protection of present however, adults actions adout compiler and realize grantes inclinations and realize grantes inclinations activity and antertendo adout and to heart how exercise a tradetenders and anterand less chreatest hand.

But there are video games that an actuit can play for a few minutes of diversion and then put axide games that are an excellent aid to relaxifion a the end of a tough workday

for tension is Activision's Shanghai (available for



most computer and value grant systems (). It repsmountly contracts exements with the explor color of work we are a system of and the scale color of the entropy of the systems of real the grant of the entropy test of computer or according against the scale of the scale of the perference against the of the scale of the perference against the perferen

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game systems) has a horitireatening appeal that pulls you back for more

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Ans what could be more appropriet for adults than gambing? More illusens coyly lated filters was appropried for a sense conjointer prystems; hot composer systems; hot composer systems; hot composer systems; hot mainter branch generations socialisment annual cons of the socialisment annual cons of the socialisment annual cons of the mainter branch generation more pranetimes and morey manigament for more pranetimes was an exposed to bail volars or Allartic City washing

cool down with a bill Recipical acade game may participital favorities is currenty. Tarthis billion to the bill of the second second second billion of the second second second participation control of the second participation control of the participation control of the participation control of the participation control of the second second second second se

There are other games, and there are many oxide secretly palying than So adult video game function of SU adult video game function of SU adult video game you post in man and other your posts some game palying tips Send your confessaors to Video Games or D cotts, 1986 Broadway New York, MY 10025 5665 VMC top 255 for each your one we pref —Bob Lindstrem QD

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LAST WORD

By Terry Runto

In many areas you can wak for hours and nover see the light of day, the average temperature has dropped by 10°, plant file is dying off, and, parthage most alarming of all, no one can get at an ⁹ In the every Eighnese indicadly rackly got avoided up go do inversionitation abouts 1 diffuence into y and inversionitation and the all going the change in the next could be all going the change in the next could be all going the change in the next could be boots and the second second beam of the Movement with colles when all be conderers that taken resulted from this accounts of the law right colles when all be conderers that taken resulted from this accounts double all the conderers and the conderers about all the normality built and the social taken and the conderers and the conderers and the conder the conderers and the conderers and the conderers for the conderers and the conderers and the conderers the cond

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THE FUN HOUSE EFFECT

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THE TRAMPOLINE EFFECT

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THE WAYFARER EXPLOSION

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THE SOLAR SHORTAG

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Terry Auxed is a historica writer who won't even sweat writeriot hist Ning out an anwonmental impact report