\$40,000 PLUS! TREASURE HUNT INSIDE

BIOCHEMICAL WAR-THE NEW SHAPE OF CART SUUEZING ENERGY FROM A UNCUUM FICTION BY J. S. BALLARD, CHIMPANZEE DOCTORS, AND MUCH, MUCH MORE

.



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By Arttax Millor is beauty in the aye of the baholdor or only in the inde of everywork and Andernenalatis who judge art on the base of base of base of base of policy? A Pulicer propwrrain pub the failed of the excession in perspective

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The 1991 Great Treasure Hunt Wil you meks a wtbstswal from our cacha machine?



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By Scot Moms Try frees opciasyed concostoria. Then oreate your own moved up christs in Competition #52

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Pictorial: The

By Sendy Intz The formulae used in the onesten of these graphic flowers could be the basis of the mathematical rules that govern the development of plant life acound the world

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Humor This gutter gutu will divite the future by reading your cer's of spills



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Antimatier experiences, rear-cloath experiences, and alien abductors, is thora a link? Budd Hoghens werve mential health professionals, skeptios and free bemacopes, reptinn publicity

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Video Games By Bob Lindstom The best games of the year

FIRST WORD

IN THE AYES OF THE BEHOLDERS With Congress debating obscenity in federally funded art, what will happen to free expression?

Arthur Ethier, Publicer prize-selimer and a detrigulated Anservior picywright



The National Endowment for the Arts (NEA) has provided some 85 000 grants over the paid. 25 years Three or loar here been conreversal. Not a bed record

Last year on July 19, as a Oreday tobuyca for this Authors League of America. I mer with a group of conservative successlight of conservation succession. DC I Head to conveces liver that the ensure was not smally packness but whether our government hould get not the taxinos (A kying down inkis for scools? good and bad on Even TMo permit so thying to do this, but in all hare a basetes to the end of time

I read a couple of parcycepho to the legislators from in Ruesa, a book I wrote in 1985. I doubled many lobbysite did learny readinga for congressmen, so I figured Impirt get their allineation.

In Moscow, while interviewing a tough Sowei Writers Union at peratchik, I contexuity hinted that a little make freedom from govantment interference might benefit Sowei art. He repled stamily "You make use should normal the papping money publishing the panegrophy I have been on your negrophy I have been on your young people in drug addation paper which exposure homoseus alwy patenings which even your own ontops and are made only for publicity and money? All the you are bolig me will be an improvement for Publish? We do not provement for Publish? We do not an unstant fuel au improvement.

A setup from a Western basis, as poor a new saved if the setup factor and the setup for the any factor and the setup for the setup term of the setup for the setup for the setup factor and the setup for the setup with a context of the setup for the setup setup for the setup for the

Another sensitive was immoliatmeast by the increase of a Soviet normality of a soviet of a Soviet normality and a soviet normality of a soviet normality and a soviet normal

It bacame clear to me thist we were all second hemis spisanies. Now of the samabox or congressman reterred to their own resetions to the alleged pointagraphic art but to their feelings?----hall to the poople sending in mittere of bellentete pertuants inganzed by fundamentalist croups

In striking to congressimilie in served introv tab by statisticity is a purify manify at the two two beams of the server and the server and beam time take the server and the beam time take the server and the beam time take the server and the movies, and gains magazines, and gains and gains magazines, and gains and gains magazines, and gains and server and the server and server and the server and server and server and the server and server and the serve

It has all gatter twisted. One well-meaning lateral congressman a supporter of the NEA perined new largrage sufficial rig the NEA to pohilot funding of works that "deliverably derighted hero suhari hereagie of the United States, na religious fractions of social or ethnic groups"

Now we are mining on and cutture and race, stress where Congress clearly has no right to legsome, but this only it ustrates where the whole sample compoper adrenging us—streight compoper adrenging two-streight potecal carsonality. No wonder Place would not let artists mo his icles) society—there was just no waar way to keep them to here.

And there exist inst Notice a democracy And Congress explicit a democracy And Congress explicit a determined of the second second

FORUM

THEY ROLL THEIR EYES AND GROAN at the mention of science, but with an enlightened approach we can recapture students' currotity

Inquiring minds server to know: Christhen's conventy is inquiring to free the earliest grades at-balene are produled to genform rather than east enty.



An errore generation of students is loaring interest in science and scientific caneers. Although we have constantly of the competitive and national security consequences or of this deadline, science education continues to planment.

In Science The Glerocus Ertaanywari, Jacque Barzun naminddo of the place of science in durintellectual lives. A quartar orfuy altar no publication. The book remains thought provoking and wetherfula. In the take we find an ison to unactode offermen in acence education and its lays to chalengogi with natural curosity.

Preparation for a scientific carrene in on the purpose of 44-bit metasy and high-school science classes. Even in the most scient data to on the science of the science of the science of the scientific prodes to early that learning throughout the leves. And an undividuality of cos so on that will even an indexistant well instrume productions at both he purpose

You don't have to be a particle physicial to be curraval and informed about the nature of matter. Few tronters are expanding as chamatically as those in biology ver most subdent suppress littia interest in the fundamental processes of the The Institut adia and events as charatelic or sny his and events as charatelic or sny his man endework yet hose indeviuate and events are all but invisible to lide.

Science test accreate restellaing "first hose wey field cooks are at the heart of the problem. Heart the service guedes, structure are probled to perform mather than groups does to exclusion affect than groups does to exclusion affect than stroked. Solid account of the matter and the mendio of too many school administrations than competenciencia.

The neutrality that drives the operatelying complexities in the assesses one tails hardpromatics in the same one tails hardproperts and hard writers and the properts and hard systems reads, upon competitivetimations, our thorn to be made as that assess to intervie wester to physics on in the upper grades, students which a scatterity designer for a sector as the same to design the tors assesses or the tass.

It doesn't have to be this way, Young chickne have this acaintife cast of mind that asks constartly, why and how They went to learn and for a time that curcisity a mailfable. Our educational process, however, seems deagned to squaks that curiosity and replaces it with chuckgery.

This since, as a rule the leadend fault They work long hours for low page than own excentement and energy seeped by the correlatmentalisatis. Many science lacetaris lind therma-lives locked into 41, bitrart between a number of pages on a proceterismed schedule, with little opportunity to imtotile. Io communicate, to dehade These same tabolars intow tell source a piscess of aiking questions, but l'hous quaistion read to be placed in a conlexit. That context needs is a coinciad ainter must extend to a conlexit must extend in text, and the ain the context needs in text, and the context neutral source in text, and text needs by allowing how setmain neutrals text needs.

Broadbaster and geveloties David Sazisk once main a biol nuggesten bruce second war in boot to have sec on their minis built high extract warms in the accurd being sectionally accurd sex and sexuality from the admitted virtual and the scientisk designed all of the scientisk designed all the scien-

Other phesently internand comlease offer opportunities sphool attitutios, the privacing time to the hismathor involution. You could build a troub access of sperifies One can envece asterois obvision of videxplanation and the physion of videxplanation access of the physion of videxplanation access to be and access accessor and physion of videxplanation access and access of the behavior access of the physion in Teachers have there over, doubtlings behavior atternation.

H G Wells period out that owloaders is engaged in a tree bewhen education and calation phe Today calatiophe some to be wranning, at least in service education. To revenue the trend requines a large affort by individuals corporations, publice/interore that will repay us a fluctuand fold, and more quickly then we maint margine.

Science is entertaining, and as to beat, that comparament is glorcus. The challenge is to therefore can avaid and attributive models are complicitment, freeing them to hav students the glorous entertairment that can be found in science—each freeing CO

OMNIBUS

SUMMONING UP THE ENERGY

We journey into a vacuum, traipsing through a field of pesticides and a mathematical garden

The applications of zero pertoregay we assure and and advanced and a service and a service rest barreness and cars. Genes Daregets on release the service and perpendicular the service and void-to people im these error or "The service of a service-mode and void-to people im these error or "The service of a service the people of a service the service and void-to people im these error or "The service of a service the trees would have no held on any barry." Dave services if you don't reveal to barr it for resting?" Onnew of the service in the service of restored the service in the service of restored to barry to restored and restored to barry to restored and response to barry to restored and restored to barry to restored and restored to barry to restored and restored to barry to restore the to restored restored to barry to restored and restored to barry to restored and restored to barry to restore to barry to barry to barry to restore to barry to barry to barry to restore to barry to barry to barry to barry to restore to barry to barry to barry to barry to barry to restore to barry to barry to barry to restore to barry t

Constitutions flux month Anciente ekoskwise from bathers Beth Howard, Gregory T, Pope, Mary Chickswino, Jacobs Cherg.



Globa: The Haves and the Have Note in the New World Order (St. Martin's Press, June 1991), casethored with futuret Marvin Colron

In 7.4 Poson In Every Califordi (egos 42) Orni's unternational idfor W E. Batesan, coammes the positionano of chemical and bislogical weapone. Animia strica is biological, and Chemical Ja-Anisa International and Chemical Ja-Anisa International and Chemical Jahansa International and the model and chemical and chemical and strictles have been found a hiddes have been found a

Describing Bruce Arres as "unhypolotie and patiently instructive." Bill Moseley Unterview.



loal in the gray meas of the ge netro toxicologat 5 andoments "Maximum rate," Movemey says "Dut the issues are not black and-

Write. The lines have been blurned Nature may not be beingri, but is innocent." When not incontexing scientists. Mosalay has found time to appear in the time Pek Castilac and The Texas Character Messager 2.

The Watson Research Center reminds writer Gregory T. Pope (Mind, page 24) of a steel and gass crossent stretching across the bountyside Intrivolly the intenor resembles a huge brain steen. "A supercompeter is at the

cerna, sumanded by individual resource, all working away in their own press-total all hocked up to the main seminia," Pope says 'fill is a gaint person pathor?

> Orwaresearch editor Beth Howard (Ammells, mage 30) offers vet an

other argument for saving the treatment can brotata, nome to a diversity of species and peoples. "Wire learning new, useful timps by determing the inhabitants within the formal," says Howand "Duty companies will never and "Duty companies will never the status to deplecise what evolution has provided plants. Scientios cell the makers largebale.

This deficible plant images in This deficible plant images in This Mahamatool Gerdenie (Netoria, page bit) and the cugrowhiof a new branch of mathematocalled becarbinemates. "Undertending the laws of dynamic promass at work underscores reture's becarby" says. Crivit assocate action bendy Fitz.

Barry fam. Gray assessment dely try Mary Gauchinen (Boly Ingel Sky avand to write about John Boldechts wirk, the profithetics despits fruit already avantadoyed ins. Salars final broad/hocouty with yet ancher randoa improvement 'White broad/hocouty hocous, and a final broad-hocouty hocous, and a final broad-hocouty hocous, and a final an interent and in warnand for a new genanten of a final workshow in bla an interent and inter hochout.

For viewational space expert James Obeg (Space, page 25), meeting with key policies behind the Bowet space program and mapping out joint advisities with the United States remains a constant source of behindstorm-are obes the "day job" at NASA Masion Costeol in Houston

J. G. Ballard is the author of namercus nowins, inclusing Crash and Expans of the Sun "Dream Carpore" (page 58) marks Baller's inter appearance in Oxny The short story will appear in his newest collecters. War favor (Firry, Straus & Ground, in April.

Pat Murphy ("Peter" page 82) won a Nebula for her novel The Falling Woman. She also wrote The City, Not Long After and Pointe of Depenture (both by Bentam), a collection of Twine DO

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COMMUNICATIONS

READERS' WRITES

From saving the world to surviving extraterrestrial encounters

Mastering Mysticism

Thatd which narrow Panck Tamuy a warbein The Menomo or Mysteiner (baverstaar 1980) but teel that due to the torwing of the basic to stincturing statement Dr. R. Herth Weitzer, Terming Hermol Dr. R. Herth Weitzer, Terming Hermol Dr. Wilson, International Montainon Of Weitzer, Andread Statement Researching tees but for the paid teenby years i applicad Teintrey amerimenof the subject to but for the paid teentre of the subject and wood encourage first to follow up on some frequent researching teenbring methylic consistent eth

Mark Hawkins, M.A. Ontano Canada

Star-crossod

Contenty to the analysis that intercharts the wak of thermoundeast readborne of Basnard's star. [Space. November 1980], they have been cocarring to thibms of years (Because barrand's size is enail after dim the coupterd, where a suffable planet couple of where a suffable planet couple of the costs and con the event learner base the costs and on the event when the mercow ecceptory.

> Dr Gregory L. Malfoff Brooklyn

Population Predicament

Lapstock and exposit the where of Study by Studynes (Finite Word, Novamber 1998) in thesi the works's humpy and phose Dut like many dire calls for teach phose Dut like many dire calls for teach operating the study of the study of the population provide is not one anestimative term of the study of the population provide is not one anestimative term of the study of the population of the study of the offmilling is not a quarter find care to a callshalp obtained.

Thomas Townsend Covellas, DR

Calling AT Abducteos

We were arrazed to read (Artimater, September 1990) that Budd Hepkins is calling his new IF organization the "trist rehorized help network for UFO abductees" Faul Dur organization, the UFD Context Danker International, is the oldest in the US specificately for the purpose of assisting those persons who have had an abduction expensions by UFOs. Incorporated as a nonprofit organization in 1981, we have grown to 80 octaver in the US and Canada

> Actean Bringle Desctor, UFO Contact Center Federal Way WA

Higher Order

If grant that once treve it has expotence on the 12-A steps to they have the highed many paraget rearrange warraw additional investigation of a classific tool of the the classification of the additional the classification of the additional the classification of the additional the classification of the state of the classification of the classification of the of the classification of the classification of the state of the classification of the classification of the state of the classification of the classification of the state of the classification of the classification of the state of the classification of the classification of the state of the classification of the classification of the state of the classification of the classification of the classification of the classification of the state of the classification of the

Mike Yow Greensboro NC

Minds of Change

Some of the disjunction of the assertified community of Pathert Jahm to partoper virtuation. This Desin of Pat (September 1990), comise from these who four it would upper her hones. Opperruus gelates, and timetan all hand the same potherm. Having to otherspe curr mixed to blogger threas to many people than inst, nuclear writes or "set Kennedy for possibility".

Ted C Slack Mami

Great Games- and Godgets

I om a severies-yest-old audent and have onpyod reading your magazine for the last few years I especially enjoy the Games and Star Tech sectors. I like to see what new ideas and gad lasts people heve come up with

Ontatio DO

THE GREAT TREASURE HUNT



The following devolutions and values of the probain in the 1961 Great Treatment to the funcment of the second second second second lead comparison to the funcnet of the second second second second perior precision of foor comlement to the second second second second barringstatic Comparison to the second secon









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...Now that you know the prizes, find out what to do next. Use your touchtone phone to CALL 1-900-773-OMNI or see instructions below *



cleas Bohware, SB Software Maxim Bohware, and Serra On Line. 10) Numh prum: SHK Neo-Geo ad watcol interantiner system and game cathologia. 11) Temb prus. Chinora Geness. II camara outs white: bathery and camy ind case.

PROT WILDES The foltoming are the individual netic values of our prozon in the salth annual Greet Treesum Halt 1071 Japan Wanger \$11 207, including the base sincker proce of \$9.970, plus option: processing froor carpet, power steering and mar sear worth \$100, and destination charge of







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To find out more about individual prizes, see the Gift Finder's Guide on the next pipes

1991 Jeep Wrangler

Now that you know the prizes, find out what to do next. Determine the solution and CALL 1-900-773-OMNI*

THE GREAT TREASURE HUNT

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The 1991 Tressure front is pornional pirity by Greve registere and Complete registere verying creative prosentations may be used. Winners will be selected on or atsout June 50, 1991. From among all eligible entroe in random disavirus conducted by Power Group Inc. in independent unimo nearesimen whose docisions alle final

Gods of wenning are determined by the number of oligible entries received. For complete rules (including the solution) send a self-addressed sampad anivelope to 1501 Tressure Hunt Rules,

Vendows 3.0 ENB oth leatures

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You may also enter by printing your name adcrease daytime phone number and the solution to the Tracsure Hunt on a three- by two rich street of people Mark your within to Traisana Hurt. Bits 783



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MIND

WHERE BRAIN AND ELECTRONICS MEET may arise the ultimate thinking machine, the brainstorming computer

A masse srifts around a lab toto at might white ar slumbars own as up tommuat terminal. Although neither can the writers going through his mind, both brains me putting out waters, a quark rewriteralling electrical second the putting out waters are up to the tommulation tradition and the tommulation tradition of the tommulation to the tommulation the tommu

Unless the scientist is Roger theb His computer might be pre-

Individual recursos seemed fo five af sandoor, hist es a salosis, his neuvel nobecal passed in a rhythros asolitabito, deng the Theta Ware." Thisde This computer views, loo To Thisde's addressing and leaves, loo To Thisde's addressing the standard offens, just at 1000-cell sizes of the standard standard standard in takenas, Writes This 1000-cell sizes of the takenas, Writes This addressing standard standard program responded to a sense of anticell standards (1000-cell takenas), research takenas, responded to the sense of antileave at Writes The Center in Yorkhows Center in Yorkhows

For years comput-

to design metalitation (Marcon anneres to design metalitation (Marcon anneres) to design metalitation (Marcon anneres) territoria (Marcon anneres) control (Marcon anneres) repletation (Marcon anneres) repletation (Marcon anneres) mages flott hysica are internote an a labyersh of correctors and feedback. Tautos are internote technical transformation (Marcon anneres) technical (Marcon anneres) mass auckets before they con repletation mass auckets before they con repletation.

in the early Eighties, Traub ansembled his first computenzed

recisit from soperiments assist of a understanding cellipsy At Columbia University his and cellisappile period together a model of exitacy connections between cellibased on a strainkeat anysis of recoordings from a dece of rathogpeopampus— hot spec of electrical assist of a neality hoppocampus, When Traub delevers a winpay-type arguing to one of his how the brain seems to operate Asia class probability of composition of the second second second the second second second second second the second second second second second trage of parts second second second second second second second second second technologies these although second sec

Traub thinks a paradigm of the brain's functioning may detive from shuckes of chaos. Physicists



simulated neurons, the action helwork satilied into a low-incouncy oscillation. A stythm awapt around the network, groups of calls fared in unition, then rested, atmost like stackum specifilion doing: "The Wave"

From Traut's models comes a picture of a born fair more dynamic than suggested by current new la network computers. Computens work by dismitting discriming address which pictures and fairing one transition generate an operating computer that sould fairing one transition generate an operating use to a sould fairing one transition generate an operating use of the sources of sportmencus publicly in neighboring transitions. We that's executive the campbe can be duple the sub-finite object the sub-finite object basic to mainemptical values that, cally, solide into in cally, solide into in cally, solide into in which sub-inspection is called a simple attisator. The mythisso firings of the hypercempus. Tasks saygees, may be a service manifestator the underwing chaother may of individatio firing of individite comes.

"If you change the minual conditions, set up different commoborrs and strengths of connections," he notes, "he patient is disrupted but you usill get an oscilla-

tion. And that behavior suggests a arrange structor."

A stange attractor oxid represent a memory Tradi spotulation, and diffuent initial conditions could lead the releast to author on different memories. "Of course incould mean notiveg like that," he admits: "Maybe if you were it up this way, the damit thing just oxidates"

Gould his research lead to a new computer architecture? "When we understand the dynamtics of this thing," Traub indexts. "maybe we can find uses for #, but not before ?

-Gregory T. Pope DO

SPACE

FAST EXIT

The Soviets say their ejection system is tops, but is the rest of the world buying it?

A three horses are block in spectraces without a a Soviet probability of an a soviet probability of an a soviet probability of an inter regeneration of the solution of solution of the so

The N-30F83 shuttle escape sysamitias taken Severn from obscoty as the head of a supervacrual bowet military system factory to the spottight. The mechanism is thready standard for all Soviet su persons and the Soviet su supersons and the Soviet su persons and the Soviet supersons and the otogo solid rocket meter that in seconds, propies the actionus half a kitometer from the orall Stored inside oach unt, terreower a nei-contained oxygen supply and an automatic preschale system act the actionate rows i unconsocus or ryured, inmaling a sale topotoxim.

According to Servers, his solar and pressure such continuition postransition and the server in the solar servers and the server in the server servers and the servers in the servers field probably be used on the field probably the server is the shall be reacted probably the shall be reacted probably the shall be reacted an experiment, the shall be reacted by the shall be shall be shall be reacted by the shall be shall be shall be reacted by the shall be shall be shall be reacted by the shall be shall be shall be reacted by the shall be shall be shall be reacted by the shall be shall be shall be shall be shall be reacted by the shall be shall be shall be shall be shall be reacted by the shall be shall be shall be shall be shall be reacted by the shall be shall be shall be shall be shall be reacted by the shall be shall middeck. Seven objects to crises of more than four people because goting them out in an emergency would be extremely difficult.

Selection of the sense alcound he spoterits performance are not outregional "says one US another with the and most obtains at MASA are well wellighted any exploring of the sense of the reference her as becomes of high, may be the advertised of the reference her as the sense outside allow and rescales of the sense of the advertised of the sense of the sense of the sense outside at the mathematical and when these may be non-version of an extrement mathematical

Despite NASA's tack of interest Bevenit is now competing with a Buopean team for the European Space Agency's Hermes spaceptane ejection system. Dee of the somewhat leafer Europe



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Indust noted live after issung power. He landed antely, due in large part to a new election system





Autoritoria estering devices in Bovanis splaine abust space calif balance that require immosiable sectori. Califies instande of astronautis heels, wests, and haimala just two bolices no his posier posture for the welant depurties. Thereprovides and the subject or simple sectore of the subject or simple sectore of the subject and mostar shells under the event that the software the sector that shells under the

Strapped to each astronaut is an teaction unit containing a twoThe Servers system is many benear more capitals then HAGAN current approach. Aper the Chain larger calastrophe shyste earthnand coxperior science is a seccal state to throw there is no control of particular science is other of a particular science of the the NASA system to designed to deal with sciences the second to deal with sciences the second the science of the science of the second science of particular to cocord the science of the science of the second the science of the sci

However, NASA as unkney, to be the Swite George or even a similar spatient from an American company. For one thing, NASA entranses that institling the sysmm in all antificies would be togit up to 51 billion. NASA also reausely files create strates that Severing system is designed to evaluate. Plang anger crease would require clarge anger crease would require planets and antificies. an design's chief selling points is that, being locally manufactured it would encounter less political opposition than Several is extern

Despite the Soviet system is specificing participant, there remain negaring auxiliaries there inmathing auxiliaries and the system installing. According to Sevenin, this been activated 3000 times chaing that it will have negarirised of the time. He has apaded that he is not responsible for these who use is custade the conditioner is which it was designed implying that dealing have accumed from mesure.

Silvern's firm is one of the first. Solver companies to paddle its writes to the West and indeed will need from-Solver customers to solver II Sovern is to autocaed he must lissl earn the trust of his potential buyers

-James Oborg DO

25

BODY

OUT ON A LIMB:

New technology will help amputees, paraplegics, and fracture patients keep their feet on the ground

In the battern of the nerth intring, Chuck Tearren here, of here in the sequel to the here tearre, of here in the tearrent base hot intrig seric-arbitry musual about intel-exact Tearrent was provided introls here in the here were sent 7,500 while or declinely incough his cools. The sports enthousable cooperated is never they beened space. The hot mode is control where the here is the tearrent in the space of the here is the control where the here is the here is the control where the here is the here is the control where the here is there

The creater of the SCF System John Satoleth, has been recomtive desgra for attend times Ha desgra situation and the state moreover to walk dep over enerchildren with thigh-sigh amputes, moreover to walk dep over enerchildren with thigh-sigh amputes tons can us, and two morth-old babres can creat and eventually learn to walk. Sabolich s latest contribution, however, uses electrical imputees to track the brain no providing sensations to the misura porlan of a limb loat to accident or cleases or undeveloped at birth Using the SOF System, palantis balance better, walk and non more gasebully, and negotiese unrecent better, mail negotiese unrecent better.

Placed in the sole of the prosthetic toot and readed enough or writestand body weight is landuloess and electronic largests to electropics stuched to the alen of the wears's alturation of the wears's eight electropice, each commended to a corporate seriatio, are all latered to fullocity of the solution of the solution of the solution is and tendons. The solution class and nerves in the solution point up the solution point and class and nerves in the solution point up the solution point and the

> and became them as if they were commy from anstant foot the brain instruction. The brain instruprets the messagen as varying the grees of proseare on different parts of the sole, if then produces sensory bisfeectack as the tool moves on the ground

As unusul, applihant appendig on a applic on server at minimum application approximation of percepte with the next step calving a car he can feel his foot on the braiks or the application of approximation of the integration of approximation of the integration of foot on the brain in approximation of perception the brain to serve the brain approximation of foot on the brain approximation of foot on the brain approximation of application of the brain of application o in the patient's mind," Sobolich says. Some amputees even report feating, heir toos bending and their heels pushing off the floor with each site."

Altroage the BOC Bysels et al. In the art instruction periods of the bolt and the United Tables, Ballocht more addressed to the United Tables, Ballocht more addressed periods (L) have break more addressed periods, Lothano the addressed of the bolt periods and the bolt of the addressed of the bolt periods and the bolt of the bolt of the bolt addressed server the true addressed of the bolt dogs private and divertion of a Budde when in the periods of a Budde when the appropriate more there addressed the appropriate more there when the appropriate more there addressed the addressed the

While the BCP System already toppeonts a ray advance in toone, intre, Stabild, is hard at work designed analysis, and the do much more. Experimentary work works topped it unstatuters is able to analysis of the state experiment interpretation charges, tacks esmalation like odiring, and over pam—to allet free weare if the crossitions a demaad

The inventor is also adapting the BOE System for the mynositotre arm a prosthesis that uses adopting to a single the second barrier of the merceparoestastic that opprate merceparoestastic that and merceparoestastic that the merceparoestastic that the merceparoestastic that the location of the merceparoestastic that the merceparoestastic that the merceparoestastic that merceparoest

-Mary Glucksmen DO



Sectors in the sole of hits prosthetic foot (right) in BOF uner Chuck Tennerin exectly when he sides into bese.



ANIMALS

ARE APOTHECARY

Self-prescribing chimps lead researchers to nature's medicine cabinet

Perk climb down from their nests stand of stripping the plants stems clean and munching the plants. The chimps carefully relike a child taking castor of

searchers may have solved the pri-

Mankey do: by colons (inc sint. others are Inching

to help chimps nd themsays usually ig-DOTE HEDRE, SVED eet the plant of down, when the

soom to release charricals in the

ication theory began to take hold in 1964 Wrancham sent leaves. Rocinquez subsequently

pass freents foods to sample an-

other appennity medianal plant in 24 hours she was well acan

Chimps taking drugs primates "What we know pomes from several differ ent researchors involving chemical; its a response to the I think the chimpenzees must

As Wranchern ponders the sig-

closed, Harvard researchers how phont watcher in Kenya notes.

that knowledge gamed from nerable to perpsites. Or it could

Twa also argued for the estab parciene in areas where percari

ones, Rochousz and Wranghom A earmarking part of the proceeds for the preservation of the

ing us the medicine and then -Beth Howard DO



CONTINUUM

REBIRTH OF A NATION

School's in, as Czechoslovakia forges lesson plans for the future Also Simulated sox, zapping pollution, and garlic power

Allong the network of the hypotropies of a comparison to the second of the second of the hypotropies of a comparison of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies of the second of the hypotropies of the hypotropies



of education plane to launch a remed of fotovaren programm en with half-owards televised declares to volgen Hormades a resulted accurate the population off-out hereautions off-out hereautions off-out hereaution accurate the population accurate accurate the population accurate to population accurate the population accurate the population accurate to population accurate the population accurate the population accurate to population accurate the population of population accurate the population accurate th

tate of them together with that cap on Gobeat/Is heads. Four years latter Clement is was heared for theorem of toats immediately arbitrated him out of all photographs and hence out of hestory. All that remained of Clements was the cap on Gottwards head " kunders wrote

Series Costotiovelae Vehice Revolution of Novembar 1980, reading the record and rewriting the history books have been a proteity of playwaght-president Veder Nevels government. The new leadenship understands that readiacence is the lawy to assugate the neteens confusion and lears about the past current eleteral confusion and lears about the past current ele-

Under hin Communitie legelinitie, jaarderste enderzield hope ender voerwerkerten geschonderten eine der eine der eine der photopetry issaante a week en Mers ein bij eren, and wete regelinde to geste all stellpectie to einer unwernage in haute meiner treatering on relegischen 5 bechnesst alsobete. In einer der einer einer der einer einer einer einer einer ereichen geste der einer einer der gemeinsterne schoelte, ereichen geste Studierte einer bestehen schoelte, ereichen gestehen Studierte wird here te ooren periot her für unsetzenden. Studierte wird here te ooren periot unwersteg besoment instaal of indyreg on petitikaal oonenderen für erzenzelieken.

Because of a shortage of new lastbooks and the need to apprend a new ounculum quickly the department minds, souls, and the capacity to work. "Jolay, he says, each teacher has the unique opportunity to sale the ruln to teach heliony as it actually occurred-inct as the party diceased.

Deepide the optimism about improvements in adulation there will be calculated, but to be freen Rockabons a languages traction at the University of Desixe Budgmousievening the field after 13 years emotionally evaluated. Two had amough, atte ways. Tostay the real problem is updatly Saudemist think that levelation means freedom from heaving to learn, freedom from heaving to go to class and work hard.

And officers are worthed particularly about the very group responsible for the revolution. Trainwrig the stadent nots in 1968 at let d kals atcepage but, "Homadka, twyr. We can tiet that happen to this generation of lads, who found to shirth to an their threadem."

Both properties and a state of the second state of the second state of the state of the second state of th



CONTINUUM

BRIGHT LIGHT, BIG LASER

Using a small solar collector mounted on the root of a physical building, researchers at the University of Checago Issue obtained this most conteintrated beam of sumbpt ever recorder, 15 percent more interne than light onmore interne than light onthe surface of the sun

The device uses a 16-exch leascope mirror to focus light onto a circular area massuring one cantimesar. From there the light orters a cone-thisped sappt-re lumit, concerning ing to be and 300 time.

The physicistic found then devecting this focused beam through a tod shaped orystal created a solarpowered laster. Philipp Glockman, a socreaser/offon bia prepiat, saya thray may have buryped into a new method for powering laster. This lastes gov errinnet is inclusive (coding article the technique), he says IBUI do not thrik it's too practical mean kided.

A BLOWRISH'S TOXIN IS 100 TIMES MORE POTENT THAN COCAINE A BETHIN DOSE, ABOUT 1 MG, COULD RT ON A PINHEAD

THE WOST DISTANT STARS ARE ABOUT 5 BUION DIGHTYEARS FROM LARTH, OR 30 000 BUION BUION MIES AWAY

SEEN MORGAN FAIRCHILD...

In the Nim Steepar Woody Alex Intrinsemply welde into the ultimate sex machine-The organization-mand is falls later amarging distribution but happy A genue organization may tradinskie in the main falls bag Mitthe the main falls bag Mitthe Well, head of scoursetures for me Genetal Lateray of the University of Newsids at Reno.

Well, who has lectured at robotos conferences on these developments, predete that computer induced sexual experiences will be commonplace within ten years-thanks to proneering work in wrtual maility

People we note that really program territy to be over a set of the set of the part of sensation carbon establish that britage and shart going through the inclume. Using model beceners attached to their bodies and sensation (the sensation bodies and sensation) of the bodies and sensation (the sensation party to be for many of us a relation short or more the appropriate and the sensation provide to be for many of us a relation short our model with an externely

-Paul McCarl



The stuff observes are reacte of: Nau reary never must Mongars in the lines, that visual smally will halo make your testions seems more heat

DENTAL GLOSS

Wark to whiten your before Here is a little-known secret their is bound to be common knowledge soon Simply put a flow chope of carbarnels perioxels in a plaatio tockhail kype mouth guard. Refresh is with a flow chope severy fore hours and writen a mouth your teeth with the coeffort

Budgins by the University of Neth Conversity and Control Conversion (UAS) School of Derivally have allowing the instantion to be effective (utilises your source behave) an university of the source problem such are an assessed, all 2016 to 2050 of the Compared with conversional withining. And since any derives can fill be conversional within the conversion.

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A introduction to g pend. Class staj water with electricity

NASA'S ORGANIC

NASA, the apency that gave us the moon, has underwinten an elegant technique hal puntes water tainted with organic polutiants such as PCBs and hydrocarbons Photo Catalytics, the of

Boulder, Golosado, spent five years claveloping a

ROOT CANALS ON MARS

Space may be the find instear but it is the last place you want to be it you have a codheche Trate why John Young, chinical protester of dentisty at the University of Toxas Health Science Center in San Artforce, is developing a sere oravit dentil office

system for NASA that turns that's wedwaster too priving supplies for astanstate. "Thern's no reason why the schenology succin to estimate reaacting problems by mut-1991 * caps company mesident Gemid Capper. The low to the water's weathers.

metal loads powdar that tracts with surright, sorvering it into an officliver of lange that speeds up the braitbodow of organic politication with setton dowed. "You carry and charge the staff who a politized point and expect it to work." Cooper says To optimize the results, you have to guiter thirtogal a metaboli dwarter through a metaboli dwarter through a

Cooper says that the technique would coel about 40 cents is pellon, or a per with techniques currently used to treat eastewater

-- case the woode

patient is strapped to whatever is available, the doctor done is special homes to keep from focung away. You work live a mountain climber, pulling back against the rope to counteract the weighting environment. "Noung says

Becol, salwe, and other materials are funneled into a confister by a jet of an biowing from slowe the patients in hear dwith longer missions in the next future his zero gravity dantal office will become a permanent implant—Marrison Larkin

DRACULA'S NIGHTMARE

Gentra's legendary powas range from keeping averapters at boy to curing the common cold. Now from Basis accentable takes added how more mitracities to be last driverting heart stacks and preventing wheat cancer

Intrigued by reports of and controlling areas consistential areas consistential areas consistential areas consistential areas and deverse a days of user fails deverse and we have fails when an areas areas deverse and we have fails therman beweigneet in a raive (a graam for a ration and areas areas of a and areas areas and and areas areas and and areas areas and and areas and and areas areas and ar

In a relicited study, work by Dr. Yu Yao Yehi an associate prefession of nutrition at Penn State suggeste that gartic may szave of I hourt desease by lowering APOLLO 8 ASTRONAUTS USED A NEW ADHE SIVE TO FASTEN DOWN THEIR TOOLS IN 2FEO G-SULY FUTTY

THE DUDEST ROCKS RE TREVED FROM THE MIDOIN'S SURFACE ARE 4.72 BILLON YEARS OLD—OLDER THAN ANY FOUND ON EARTH

Gancer busier? In pade of Chara where garlic consumption means 20 closes a day breast concer a almost romovistant



CONTINUUM

RABBIT RUN

A recently discovered Numbers Indian politicy boal, depicting a raibbit, shaking a startile object off record of the A 0, 1004 superrova that created the Crah Netwa

It induct historius, protesso of entrinsity at the University of Tission 2: University of Tission 2: Subschell Russell Wentronsand and through a Minister polytery objection autonomy. They found a thirtissic polytery-moth webbook with its university/solution autonomy. They found a the major and the story may the used in a subschell the major and the story may the used in a subschelling 23. nay a Chinese observations.

NUES VISA



The state with an elegitheter's memory. Consumity of New Plantptrack resource and three and three address second bios for source of the

VOLT CULTURE

Clothea have always locid a lot about the person who wears therm—but electrical organeses at the University of New Yempthree have designed some gear that reveals of Their sources an additionation, con the even in darkght for 23 remember swary move a waare make sin a 24-hour period. Nore than just a feature sassement, the suit says UNH graduate student Stever koong, wildent Stever koong, wildent Stever koong, wilvaluate us regulat jobs. The suit wil strow effect that how are shire to do the job.

THIS JOB IS THE PITS

Borne scientist yell. Turnear: Da is Mondel Charrisol Bornes Centre in Philodiejha a mitgor Biocoeny a more agit to intake sociansisti cry. Yewell Toroca research is isolated the charrisol responsible in anterna user Catalygia wind of the charrisol engonatable in wind of the charrisol engonatable in contaggues to stay. Jeso'r 8 syndet gest land in ryy. or how to climinate movements they are unable to perform, 'he says "Unsi now, people had to use questionnalites to gether this type of class."

The presentation particular parti

A gauge of make volumener were understamp badd to oddreat samples the mean last deer were understamp of persons the induced to persons the induced samples and the induced samples and the induced samples and the induced samples and the sample of the induced badd in a mean same were outdown of the induced badd samples and the induced samples and the induced samples and the induced induced samples and the induce

IT'S ONLY THE TEAME MOSQUIFO THAT BITES AND A WELFED LADY SKEETE CAN RY CARETING TWICE HER NORMAL WEIGHT IN BLOOD MALE MOSQUITORS INVERSITE ANYTHING, THEY FEED ENTRRY ON PAINT MICES

Rebons



CONTINUUM

HOLY PILLBOX, BATMANI

During Work War 1 the finane payment balt trousends of pillboxes operating methods for a handful of tockers—as a devices appared a NAST my vision. But Hider never made it to bigenial and now the suchassistem occurry of Surray a honeyconted with Peero usekes war relia thanks to the offst of the Surray whole that, how way, the pillboxes are gatting a new lease on the es concentrum for balt.

Refars to but populations operating the next to Regard was marked to 80 percent doing the sale wave to be necessary and one of the recording of the sale wave to the sale of next to necessary and one next to one of the sale of the help meet the best popular on a suppresentation with the help meet the best popular one's any Rememping. Then converted these of them second the of the sale and the next to the sale and the next to the sale and the sale and the sale of the next to the sale and the next to the sale and the next to the sale and the sale and

Now the trust this developed do-tryoutsel conversion kills for the many homeowners in Sumey who have pilloses on their property When the pillose conventions are complete researchers will tag the bat and keep a population count. Remitting assys "to see it thase locats keep the bats coming beak." --Bil Lawren

CALL OF THE WILD

In dat nave that cesspription of the testingle incoderbale and Lysaendake office of the testing of the testing are species. The celebration proteins and sugast to lead the artist and the artist, in terms and the artist, and the testing acceleration of the artist and the artist, in the artist and the artist, and artist and the artist and artist and artist and artist and artist and artist and artist ar

Devices detected the cell after dispergise distances/file microphones to a public covering diab travel within comparises the dispergise the communication system operates completing the a telgraph. The cathophan cell towards through the set legrad-which than shock of a few rather than shock of a few rather than shock of a few rather than shock of a set of the aster of the legrad-which beat shock than glapped with bourse? they gather ascurd the celephanis use a pock of guard dogs protocolng their charges As who man and dog, These ustipilurs," Davises says, "rawe evolved a specialized system from maritaming & protable association with arts," —BE Laween

MENS OCTOPUES DON'T TOUCH EACH OTHER WITH THER GENTRUE NISTEAD, THE MELCOCTOPUS BAC-LURES ONTO ONE OF HIS OWN TENTROLES AND THEN TRACES THE STERN MANUALITY IN THEFT STERN MANUALITY IN THEFT STERN MANUALITY IN THEFT



Madomina searchabasi dan Alex biy out the roadecal part look edhloot haineang a naw on their houdo---thanks to computer adulty

HAIRDOS ON DISC

Kirk Le Mer of Beverly Here m on the outping edge of lasing yeing the stack print ing computers for Lasi in their salots.

Le Mer's New Image Salon System téloxe cleants lo s'y our Chor-styte curs or the Medonina look before dacoting Writch look e rigit for thom. The computer with a current etuched stores an image of the outgrate's teols. diards browne friedugt in catalog to which polorities and allow to which polorities at catalogies the taxe with the barryte which catalogies the barryte which catalogies with the barryte which catalogies with the barryte which catalogies with and the barryte which catalogies and categories of barryte barryte and the barryte and taxes who and the barryte polar inter system The system which are barryte polar inter system The system system.

WE DON'T START

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If you two in the Southom ranging from fleas to mos quito eggs. In a series of lab carpet in an Riki na four

into urban areas throughout undoubtedly drie on floas reason to think they wouldn't

people understand that streatheastly refuse to opposit CORALS SLOGEST THAT DAYSTONG

ACCENTER S LIRGENCE TAKE UP FARMING

with striging fee sinte. Palma -Sherry Baker



A coultraine slugger to the cost



EPA, HEAL THYSELF

was renovated in these omployees to transfer to out their jobs. According to stances and president of the employees a new synthetic material restalled on the bip "We suspect the pulpri:

keep its own work environ ment sate? "That's a pood cuestion,' says Hirzy 'If we car'l even save ourselves. -Sething Modulity

0644

EXCALIBUR

WROUGHT OF STAINLESS STEEL ACCENTS OF 24 KARAT GOLD AND STEELING SULVER, HAND-SET CRYSTAL CARDCHONS, INSERTED IN CRYSTAL-CLEAR ROCK,

KING ANTHUE. Insusatial here of medieval logend, he was the only one who could free the mapped Excelibur from store. And when the most famous filling of threads in all onsume vielded this mighty word, he hecame inviscible New you may own the anthonized recerction. From Europe, its blade is wought of compred steel, he prosume

symbol of power – the dragon. Ablaze with flery red crystals and embellished with stering silver and 24 karns gold electroplate, Excelibur is to be removed from its crystal-chear sock only by the min destined to possess it. 3675.

TERMATE CONTINUE YOU ASSOCIATION FOR THE PROPERTY IF you would associate on the Proceeding Open providence, you must be an unable. We up to your everyop of their providence for regulation content on the approximate.

The energetile cart hereby and ferminal display -shown vanisher there seened stree of 2007 high x 1607 wide -- is included in an additional charge. Foundhare shown a smaller them account length ad 02

AN OFFICIAL 189UE OF THE INTERNATIONAL ARTHURIAN SOCIE IN



The International Arthurian Society

Franklin Conter, Pennsylwmin 19091

Bense entre my order for the authorized re-ensation, of King Arthur's Enabliber wordd. Carlied of handpolished tempered steel and embellished with sering alber and 24 hans gold elsengelse. The unseem designed display is included at no additional case.

I need send no money now I will be hiled in 10 opad asombly metallments of 367 30° cach, beginthe most to showever.

	Please mail by Pebruary 28, 1991
CNATURE	ALORIN ARCHITELACOPOLIC
RIMREM	SALE REPORTANCE



IN EVERY CAULDRON

А

A new arms race is taking off-this time in the form of chemical and biological weapons, deadly brews that will transform nature into an instrument of war ESSAY BY W E GUTMAN

0

cid as me take real or percerved Milaona of years of evolution have lathel substances. This is suryival of the fittest in its most perative that, in the animal because instrict and reflex-

44 CMN

Nature, however, pakes betoul, seed clouds with sub ust death. Humans trained pipeops and bats to deliver low fever, malana, and denorganization. The tage of gue They cultivated fleas inwar is about to change in a manner unmegined even lected with the plague. They appeared take partying ten years ago. The next decada as likely to witness the ted lever. They send housethes tambed with cholers, anbiological weapons in confacts of all score " The ratiomice and migrating gasese

have been considered as ve- initions expert and former Sahacles for the delivery of cret Service technical special may be next. These weapons and their creations trans-And we've only just beconcertant of the Duble Sale. ty Group, a Vectore-beend in-

clearly Vancomous stockets ust is that "the use of cherrecel weepons will not win a war but might prevent the us-Equally highlaning is the

and to a pertain eatert, bayguirad. There's now a poison in every califical Cherrical weapons are now available not only to major powers but to Third World ontons at well A shirty released by the 1954 listed 14 courtmen as lare capability, about two that yet another 15 to 20 netions are seeking to secure

No wonder. Chamical weapons are easy to make money in fect, the manufacsary ingredients for nerve agents are smilar to those can be developing. Minute ly agrificant especielly in hot or tropical regions

ly estimated. The number varely limits the effectiveness

ony is entering the weapons art of killing with the development of "designer classess" may be produced from menspulses human behavior

1890 by /InnMoold Tactay signed but never ratified the veloping a biological arsobiotechnology, despite the for lon behavior defensive weapons Biological spents phote, cholera, and arrhnax are said to be in the works at

A report issued late in i dad near the village of Salyears, in fact only the Nation-

cation of the biochemical

Countries seeking chemical

Indonesia, Jordan, Pal

South Koreo Thaland

ru, Sauth Avelue, South Alace

EXCLUSIVE DE DANK Countries possessing chemical Countries thought to possess chemical or biological weapont or biological wear he oraifor any, Hungary, Laos, North Kores Israel, Libws, Sornalas, Syne, Tel THE CHEMICAL AND BIOLOGICAL WEAPONS CLUB, 1991 USA USSR Vietoan corrs and the ability to deher them at long ranges will be one of the most moortant security issues of the 1990s and of the 21st Century Three ortical issues are at play First threat weapons are relatively easy to produre and an increasing around the world are accurring them. As many possess them and could United States and alled appears to be decreasing prohibition of chemical weapons' use perheps even of biological ones Finally knowanze delivery of systems lengthen the reach of those who might be prediscoved to use these weapons of massdestruction? -OWNOWNE Vice President of the United States

One can safely assume that frigoing excorment of one arother, a strategy still observed among primites, might have satisfied our ancestor' aggression factor satisfies and the same factor of multiplication of the mesegne in the same. Charitally, and balogy provide us with ways of Ming each of the

Around 460 e.c., at the height of the Second Patipomeers NAL, he Speatrans borned pich and south to holease policineus fumes under the energin coth will be defined here used to a south of the bed Gred here. were used as early as (200 B.C. Grackashy anthread for use or dry land. Grack file, a procurso of neparity, playties for more tips) a millename.

Over War ganazal Palitice Garmo usod Greek fire, dauing Confederate general Pierre Besuregard to claim that Garman had shot the most destructive missive ever used in war

Nor is biological winfare a contemporary phenomenon During the single of Kaffa in 1947, the Monpols hurled the bodies of plaque worms over the walds of the Canobee defectors. Geneose ships then carried the deease back to Europe, where the Black Desth promptly esupted.

In North America in the Eighteenth century, Brekh mithry leaders, such as Julifrey Amherst, offered a gift of smallpoenrefected bharkets to Native Americans, who were particularly succeptible to the deadly disease. This act of material cost Douoands of Instancians cost Douoands of Instancians

MODERN MALEVOLENCE.

In the Thirbos, the Japaness, at wir with China, used biological weapons to spread plague and famme. They alao tested biological munifione on telleneed prisoners.

The first whoesale use of loase signet look place with World War I when the Germann displayered chinnes pass on Franch and Bristh pools. Reach and drin shi pools. Reach and drin shi pools. Reach and drin shi pools. The shi war with blood no body tesus blood no body tesus This promptal to Cammon to unleash musterd gas, a blowmg agnet that consumes the Heah. Under attack U.S. Itoopa retained with phosgene, a choiring pas. When the carriage and/of in 1918, the "war to and all ware" had clasmed anore than 9 million lives, with more than 100,000 of those deaths officially attrauise to get a stacks. The full is now ball aved to have been conselvable to have

In 1025 overn yeak after the and of the Greak We, an international agreement learned after Greak We, an international agreement learned agreement on or stockpling. The Greneva hivisood add not prever the Filteral from close ware the Filteral from close Moreoson nor deal the Italians day away from Captered The Moreoson and the 1035-30 wer agreem Advances (Erbacea)

In 1602 in peach of deadine, working peaces, the Gammania also invariand. Nonnerve gazes, Tabon and conin, both coshriese, almost odnalese, both capable of pensoraling the sim and coaling dead'n initia frank own of also frances and the similar of class many peace processes of charmod weathers, the Nace addition to them operating the deat of the them operating the addition of them operating the deat of the them operating the deat of them operating the similar of the similar operating the deat of the them operating the deat of the them operating the similar of the similar operating the simila Alised forces during World War E. They used them instend to murder millions in death carros

At work ond in 1945, the Soviets second large stocks of nerve agents and other mis chemical warfare products as well as a fullyogupped-and staffare Tabus factory, which they transferred to the USSR lock, stock, and barrel

During the Fifties and Sitos, millisty research produced still meaner harva agarta, neckeding the "V series nerve agent, produced by both the United Baass and the Sovets, and devoted bocause of its maperbashy, patiesknos, and environmental stability. The Fifties also wirneseed the averagement of its metrally capacitating but performs thermals.

Team gases and herocides (defaetro) were sho consisted backs in Versiam Argably these were noristheir and actherosol under the General Foliocol OI all the chemicals Lead to are Gasest horn for path because dwing Work Wer line up wering their process without



the tropical forest bare, one that created the greatest betweens was the decour laced Agent Orange

The declarate sets wightable of a set-centrus/wightable of the two picket loaving a surrostitic lendouspe entere weeds had grown into bushles and where has infocuted and soft tend, bowed dwin by the wight ditend, bowed dwin by the wight ditend and the set of apart forman in humans expected to a port forman in humans expected to a port forman in humans expected to an anator of construence video.

TOXIC WAR TODAY

By the and of the Severvises, a growing intrible of intelligence and press reperts instal that chemicals were being logicity designed by Soviet espapered lorose in a "versity of more contact ages had already been used by Egynt during the 1385-87 Winter wir an occurrence that took reversal

Another report claimed that Lookan troops added and interfed by the Sowets and the Vernemese, had been using agents of biological origin (*fettow Harr?) since 1975 agents, free Himorgs a trotel pieces dwelling in the meunalences reports of Loo

In Kampuches (Cambodis) Webamrea forces were reported to have used chamical agents agents the troops of "Democratic Karrouches."

In Alghanistan, strong oroundatan aal ovidence indicates that Soviet and Doyal. Alghan forces waged periodic chanical war against the muphedeen, the ragtag bend of tough, increated ovideneidet (stella).

han reported that between 1983 and 1994 Irog had carried dut more than St chemical attacks against than International protect did not prevent Irog from repressing the dead until the recent bases in hostifities. Ner cid it discourage tean from readying to respond in lend.

Tranja invession of Kuwait last August and Saddam Hussenh own miking jacdiwinas inawi orientable dol forsis. Acobating is a recent community to the Jatrice Center for Strulges Studies at to Varie Directory is a rulei o control of the grant pod as a crucial o control of the Both, not only for Israel but for the inner is a whole

Tag energies from a way with their with their regions a language and basis processories and the set exclusion of the set of the set of the problem of their with their provem caaxies and their their their provem cadatals datases, they appeare most likely data proved in from and squared 66 own paperies. The Kurdels to move the Middle East (Dresmad Weissperior) and the Middle East (Dresmad Weissperior) and the Middle East (Dresmad Weissperior) and the Middle East (Dresmad Weissperior) are a writishly



indispansable component of a ronewed Eastern front "

Several-two years after the ortd of Wald War I, dospon the Geneva Protoool and the 1972 convertian, a growing ruember of raitons have stoadily developed an appetite to higher forms of sitting. That appetite is venecisus, with new and sive deadler weapons being brought to the table.

TOMOBBOW S TOXINS

We are entrang an age of 'now' usageone." This exeminally innocoous phrase encapsiables the drawing ore of bochemical weepone upseuklied in their weocurness. Innacty, and abley advected beforease. Crawful considernicas, in lack might we'll lead to the conclusion that there is no effective biterne signame tables in or flacking bits.

For one thing offective defense requires that you know what you're delanding sigaars. But modern bichnology is yelding so large and destrate a winoly of chemical and biological agents that a uniform defense bacomes imporrable to achieve.

Gate making area provided obtained obtained work to ward of making doos for enample, may be uneless against may demonstrate the second obtained to pertabolish. Be mad making and the adapted second obtained obtained obtained gatester watermation has long basen explored the account of a gatester watermation has long basen explored the account of a gatester based obtained obtained down against How dowe develop waterbase by proton us detection water and adapted have dowe develop waterbase operant making and the account of a gatester How dowe develop waterbase operant making and a second obtained down operant dowed on the account of the magnetic based and the account of the adapted operant of the account of the magnetic based operant of the account of the adapted operant operant of the account of the accou

As we grow more capable of memouang genetic end other metanist so ios to optimize of bacemenistrates on grow more install emigrite a weapon whose stall symptoms and particle- metal on the appropriment upon application of the approprities reastered ready of bacemenistrate enseme the capit, it is weapon rewain to two mane, wheapon rewains to two mane, wheapon ensuing the enseme the optimizers shade Here sto you defend against such a weapon? You defend because you out?

Even detecting the use of backhenic ad inseptra grows problem/bit. Much effort and research has been depiled to the development of "backenast", means that use lang organizes to do usering backenast, bit ing backet application of the processing stratube land application of the processing backet applications of werning backets, bit ing backet application, and the second balance for the optimation and effective shall obtain a terms and effective shall

Nona of the defenses take into procount the sheer impossibility of protecting large onlian populations, subop-

15 CMIN



Probing the boundaries of physics, a trio of mavericks is tapping the hotbed of force found in vacuum

BY OWEN DAVIES



less, renpoluting, and virtacities, cars and homes. Enmanframes, and tiny X-ray source of these marvels?

imagine a world in which end- harming surrounding cells All this and more may be found in the vacuum of ally free energy powers our possible within the next tien space. Puthol's articles on as entrepreneur Bill Church years, according to physicist the subject have been pub- Pumor has it that their new vision laptop computers. Ha Puthoff, currently with the listed in the presidous Physi- company. Jupiter Technolomore newerful than motival installe for Advanced Stud- you' Review And he has at- ges, may scon by to manulargest, most apphieticated lies at Austin, Texas-The body and kill tumors whout point energy-the abundant ited with developing much of Ploaetta stone of physics, ex-

tracted heavy-triting busi- facture zero paint energy manees associates, including othere's more Zero

never that he says can be the technology for microce-

During the Casimir offect in a vacuum, objects come together. assiducion exerciseur heat and energy. Another force to be ceckased with Ken Shoulders.

obining everything from gravrity to atoma to the origin of the cosmos rise!

In a sense, Puthoff's search to color in the univvese cannod 20 years ago. when ha was insulty minial Ph.D. from Banhoff Uniyendy. One days the physicel now applians, he was thrieng about lacryons, hypart to towal lacryons are part to towal lacryons of any if the particle account in a first particle account on any if the particle account and the reasoned they might ball at one of the particle account any if the particle account on a part of towal particles. The account particles the account particles of account of the account of the account of the account of a functing to study the problem and wound up as need of a new perspecticity research program at the Stanford Research Institute new known as SRI Institute new langure and SRI Institute and SRI Publich was ready to make a charga

Erray Bill Church An exmath mojor from the University of Teaus. Church depped out of college when his farbar ded. By the mid-lightex, the tim, personation on terpreneur had made mitors with a regional chem of theid-chicken researchita. Els-

Ayacial Hel Puthol is proved right, we may soon here a new, nexpellating severgy source.

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crystal ball has been said to foretell the future ... me this woodcous of fable and fortune can be you on a journey of discovery that will last

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ger for new challenges, the energetic Church vowed to spend his weath promoting the kind of high risk potentially high payoff research that government and corporate busieschab were too unmagenetive to fund

To that and he founded the Institute for Advanced Studies Incused in a twoscen official in a new building along the Capital of Texas Highway in Austin Then he kined Hathoff also a respected later scentral, away from SRE

Seen path Puhota annual in Autility beam of the Puhota annual in Autility beam of the Puhota annual in Automatic transmission and the Public annual annual sector and the Public annual annual annual sector of physics and electronics where example and excellent the Donomet physics and electronics where example and excellent the Donord the Automatic annual annual annual sector and the Automatic and the Automatic annual annual sector and annual a

The institute the knew that vacuums were not ready empty and ourtainly newer manual in fact, most physicals castIng like cycle lowerd the cosmot bebeen table to exclusion in a hostine of factes. Pharteen pancies fluider into costence and their despetient. "Itemp? papers need investment while physic assesses of enceptient acceleration to the physical sector of the sector canadate of enceptient acceleration canadate of enceptient acceleration canadate of enceptient acceleration accelerations and the sector in bart ball to be all the sector

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Boyer held a different park of www Perseps he suggested, the uncertain return of the substance realm was due not to the nebulous mathematics of probability equations but rather to vacuum the location of subatomic particles. Boyer supposted because wacuum fluctuators includ them issued.

Putifiel fet Boyers notice water problems used to explain their water problems as well withing an Physical Review 2. Puthof suggested host the zone scient enormal from collapping allowing the works are not physica. " Authoff styrtlawing and physical and the motion like they should allow the the motion like they should allow the the motion like they should allow the the motion like them mechanical new reality and them the scient and the physical with the scient strengther them the scient scient like them the scient of the physical scient scient scient scient like them the scient of the physical scient scient scient scient like the scient scient scient scient scient like the scient scient

Zero part energy dois Abording to Puthels have well on a doise have energy away as they order in their orbits But they also abords enough energy from valuum fluctuations to make up for the total backs by make up for the total backs operated in Physical Nerwin abpear to back them up. Backy Puthoft - th searce that the stability of matter shall objecting on the zero point analy visio.

Putriel's next Physical Revery paper was even more damp it attempted to rewrite the theory of gravity proposed law Exuation tamped. "Entitien described



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"This shows how graity acts: Nuclei say: Too door maily agains that methanism bailed it. This is show all shows the shows the shows the course of the shows the shows

It is the Casers allegt, Pathol Seloves, but may help us extent two point every from the wold. Puthol gives an sample. Brighter monthmetal plates externey close together the explanes and they seen to allited each start so storegity hall they are them edit closes and they collide with a metapholical boots percentage. If the conversion of second other. More the conversion of second other the conversion of second other.

This offere the proceed by wileen Culture physical Folder Toward in Physical Renne has a problem Crock the place collear, they call no image be used to generate even on targets be used to generate even on the collection of the set of the place. Tom actual have to them the place to generate of the term the place to generate of the term of the place to generate of the machine generated in the term (place has a result not even break even operation road to achieved "

His solution, "an inevhausible supply of such devices, each to be decaved wher the Catemir collapso." Putrott concedes this would not be presible with metal paties but suggests that an gringers any date gring and point energringers any date gring and point me, or gain "the Catemir differ differ "the Catemir differ differ the pinch the plasma together," Putholl says, "and energy in the form of heat and condensed, charged particles would result."

All least one such device Publicht age mayben hite wolds Moccoe physapier mayben hite wolds Moccoe physleans generated hat redortedly trides 700 watto of electricity from is well sockel and gives basic 3500 watta, or coling a little moce that three hortspover and of nothing The Soviet powement was imposed another to back the redeline worth of traditional

"I want to the Bowel Linion to look at Chemotisky's work," Puthott says. "I opulant tell in a couple of days whathart his augument, cally works or which at these is some tablety in his separmental design. But it is plaufable that it might be estilacting zero point energy."

Whother or not Chemistey's posise system works, other acyupment apport anty based on zero point energy and the Casmir effect is unted development. The inventor Kan Shouklers, who hopos to cleane the next generation of energits for lappop computant, labeshouse, and then extend Ton.

Broukders hopes to create these new appliances through a phanomenon he has discovered and put to use Called condensed charge technicity of CCL contexts or what P





A POOR SEAMAN FORGETS HIS PAST, AND FINDS & BIZARRE NEW LIFE ON A POLLUTED CARIBBEAN ISLE

coffee, ump from the stem rail, and

AM CARGOES

vines and ground wy, blue leaves like dappled metal foil

in the caber. The moment that Gal-

purchast opent of Puesto Rico. In his modest way he the fair Mescar creater, and the wear Polyupide of

Behind the funnel the Liberian flag of convenience hand in tellers, its fabric rolled by the sold as Johnson

FICTION BY J. G. BALLARD



THE CHEMICALS HAD ETCHED THEIR WAY THROUGH THE HULL.

When he reached the clear saind above the trile time he signed the emerald dye from his years and snaakers Learning to starboard in the lagoon, the Phoseson casembled an exe phoded part box. The drums of chemical watter on the learning with the start box.

chipped their effluent through the acuppers. The more sension belowdecks cargonameles organic by-products that Captan Galloway.

had been brided to carry and never onlered into his manifest—had dissoftwid the rusty plates and spilled an enex spectrum of phosphorescent blass and not one risk the laccon holdwi-

Frightend of hease chemandis, which sivery port in the Cariobican had regatiad Jahreson had began to satisfer the capture signound had the elaberty diseale head secold and the which had greed to in hick, lewing caryra leve of the cleans on the reactly a leve of the cleans on the reactly a leve of the cleans on the reactly satisfies the deefine head warnings and orodool searce.

Johnson set of along the was bevind the rate set. The same bevind the rate set of the lapson time set of the lapson set of the straged hordsulter was nontised of along the set shall be of of annual the retail dabes of of annual the set shall be of of annual the set of the set o of decades, it had settled into the sand, whes encoding its roof and windshield

Denoting to real in the car, which once porhaps had driven an American general around the training camps of Puerto Roc, he tone away the vines that had weathed themelves



around the crivor's door piller As he sat behind the storting wheel in contrast to John son that he might leave the freighter

on the island. Nearby lay the galverszed ron roof of a barnek hur, enough matenal to baild a beach house on the safer seaward side of the safer seaward side of the safer.

Bits advisorit was average analysis of an unstrained and hand bend be availed the option. It is internet to the option of the internet part of the Analysis of the internet and the theory depoint and the internet option of the internet and the option of the internet option of the internet option of the available option of the internet was in the internet option of the internet. It had search the wase strong had search three internet.

wing in a plywood bungalow by the arport with her invalid boychend. Neodless to

say they had nevin berthed at Galvectori. Miami or

any other of the posts where they had thed to unload their cargo. The crudety availed cylinders of otherncal wests procluds supposedition route to a septocessing plant in southern Taxas, had begun to Taxis before they left Veracruz - Captien (Colondars torung). entitic exervise whip and cook sumption of investment for the first law, moreover stready an investment of page agent had aborn and cook the time sease. Almost cantainly this agent had born if more profile and faute if many barriers and the and faute if many barriers and faute if more than profile and faute if many barriers and costs of barriers from one parts to another borndow the

bustoms officiaria public health officasis, and poundrate allocation of a mapossibility of a mapor ecological dalaster AL Kingston, Jamass, a leave-

san launch traked them to the termine time, at Samo Domingo a spotter plane of the Dimmician Naky was varing bit them when they tead to site mit traked under the obver of carkinesis Generopeane powertoast inlengated them outsite Tempe, Rends, when Capitan Gellower time to during part of his cargo. Fining linear anoise the Indian of

US Cossi Guard dispatched them into the Guil of the meet the ball of Huroars Clara

they recovered from the storm the cargo had shifted and the Abopeno letted funing chemicals leaked across the decks from the fractured searces of the waste during, bolied on the surface of the sea, and sert up a clean of acrd viapor that laft Johrson and the Moxican crewmen coughing through makeshift face masks und Captan Galloway bantcading himself into his cabin with his topula bottla

Prec Officer Perevs had aswell the sign regars up a hospippe that spirated the leeking dawaw with a torrent of water, but by then the Prospero was taking in the see, through its in whanted datas. When they sighted Parish Rob the control had not even bothering to use a counter to point. Propping himself against the herin, in banks a seeking and





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And a sub-

THE LAGOON RESEMBLED A CALDRON OF ELECTRIC DYES.



thing on the twin Now, for the first time, he oculd bocorrie the opptain of the Property and master of his own fails. Long before Galloway's curses fielded into the diask. Johnson hild leapt down the ledder into the opside room.

As the eiderly chasals ra

lact themsolves for the last time Johnson returned for the bridge. He Islaned to the propeller's tired but standy beat apained the datk

General and a bodiewy formition in the Prospece Second II the mechanism of the Ibraham make and an endese archimake and an endese archiparago of mercer Hambers Scienter be would get have even pertage, phy for hose development he isolation through mercer, pertage, phy for hose development he isolation through event pertage, phy for hose development he isolation through events of the isolation and events of the isolation through events in the isolation through events in the isolation the isolation through events of the isolation through events in the isolation the isolation through events of the isolation through events in the isolation the isolation through events in the isolation the iso

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among the smooth bottles, and slept has first dreamless sleep

"Hey you! Are

women's hand pounded on the root of the staff car "What are you doing in there?"

Johnson woke with a start, Ming his head from the steering wheat White he steering wheat NH is wologed the car, dimbing up the root and vendahead plate whit groot tending looped therabilities encound his left hand light fram white to be one of the wheat

Weighter face, he naw the American bological peoring all hemithrough the leavest as if he wate the inmate of some bizarre zon whose cages want if a bol ees of abandoned motorcass. Hetrocol to free himself and pushed against the

"Bit back! I'll cut you loose She slashed of the vice with her clasp kine revealing her herce and determined whit

When Johnson stopped onto the ground whe held has shoulders, looking him up and down with a throotoph cyo. She was no more thim forty, three, years, older than throot? but to Johnson she seemed as self possessed and nemoto a the Nesses schoolberchers. Yell her mouth was more released than those pursed ipp of his childhood, as if the ware geninely concerned for 3-binson. "Nutrie all egnt," the informed him. "Built woulds to go for too many rates in that car."

She strated swily Kom Johnson, her hands pressing the burnshed coppernumks of the paths, feeling the urgent pulse of tweeter mig the. Anound her should dere wis storing a calification bag holding a clipbont heats of thm. "My name a following in the should heats of the theorem."

balled out to Johnson 'Timcor rying out a bolarcal projuct on the reland. Have yo, come from the atracted shap?"

tan," detraise sold har withcat decet. He reached mothe oar and reterweld his previded cap term the experientra can be the vines, ducted is off, and placed it on the head at what he hepad was a rabe nogle. "Stars not a wreck—I basetted her here to recears.

"Really? For reparts?" Christine Chambers watch of him srobly finding

hand least as ininguing as the glant scarietcaspedfung 'So you're the captain But where s the crew?

doned ship "Johnson was gled that he could speak so honestly hallend the state the biologist and the way she took a close interest in the siderd "There were certern problems with the cargo."

"I bet there were You were lucky to det here if crep perior "She took out a notabook and jotted down gome observation" on Johnson glancing athis perior pris and his "Ception, woold you like a sandwolf" I ve brought a picne kunch-wyte look as if you could use a sigure meet "

Well Pleased by ter use of his kills, kinnahi followed her tide, kinnahi followed her to be backt, where de missission set on the send Casely site had been delayed by the weight of observe is bell tent, plaste coolers as tona of canned food, and in omail officie cabirref, uit meen head food, and in omail officie cabirref.

diet of salt beef cola, and colmasil tacuits he cooked on the galley

> For all the equipment she was in

The source and control of the source of the source of the register of the source of the register of the source of the sour

"Calceway?" Johnson as sumed the pursed lips of the Nassau achoolmanns "One of my less reliable



THE ISLAND HAD BECOME A UNIQUE BOTANICAL GARDEN.

Inen Sono one is looking for the ship?" "No Absolutely

NO MUSICIAN

she's gone down?"

tom Everytine in Barbados is relieved there a no poliution. Those tourist beaches you know

"They re-important, And no, one in Puerto Rico theres she's here?"

No cree except the The island is intry research project," she applianed "I back backogy at San Juan University but I really want to work at Harvard I can bard to come by Somehard to come by Somehard to come by Somebard to come by Sometang bace, with a https:// box

"It is interesting," John son agreed. There was a corregoratorial note to Dr. Christing's voice that made

nam uneepy. A sti of old army equip mont is burried here. I'm thinking of "burlding a house on the baseth"

oven if it takes you hav an twemasthe. If help you out with any tool you need it to be careful? Dr. Christme ponted to the woal on his arm, a temporary reaction ageretia some invading tooin in the wine sep. "There's

Well Johnson Well Johnson stared at the acid stams othering through the Poeperrols hull and spreaching across the legoon. He had med not to thirtk of his responsibility for these dangerous and unstable chemcals of functable chemcals of functable chemcals of unstable chemcals of unstable chemcals of unstable chement throas cores on here."



"A law other things?" Or Christine lowared her vace "Lock Johnson, you're sthing in the middle of an amazing biologcal experiment

No one would allow 4 to hoppan crywhere in the worldif they knew, the U.S. Navy would move in this afternoon."

"Would they take inway the ship?"

They'd take it every shall early it in the neuroal occean tranch then scorch the is land with flamethrowere "

"And what about me?"

"I would'n't life to rear, it reght depend on how aiwincad "Dhe held ha ihouider readouring?v were that her weherhande had shooked him "But herd is no reason why they includ find out. Not for a whole, and by then it wont

> ing when I say that you've probably created a new land of Ve

As they unloaded the stores Johnson reflected on

the words He had guessed has the chemosite toking from the Anapero had so tof the accommode growth, and that the social social model in Galtoong himself. In Galtoong himself in Galtoong himself in Galtoong himself in Galtoong himself in Galtoong himself. The sospected the haars on the schin and any suspoorous morters. The vertile at sea, inheling the acord tures,

and throat, and an ematic appeals, but he had felt bet ler ance contring ashore He weiched Chinetine tep into a per ci thobilerath rubber boots and rewe into the stations water, lottle in hand, looking at the plant and animal the of the bigoon. She filled accord spacmers are with the ploophrosecent water and lockad them into the cabinet inside the tert. "Johnsonyou couldn't list me see the careor manifest?"

Captain Galloway sock if with him He clich's int the real cargo."

"I bet he ekdn't 1 Ghretrie portied to the variettion ahalied crabs that southed troough the wird Mamerite of kelo, floating like threads of blue electric ce-

ble "Fiskell you noboard? There are no dead fish or crabs—and you'd expect to see hundrock. That was the first thing i spotted. Area it see?

Let the onloe-you look pret to head the

Maybe IS be shonger? Iohnson flexed his sturdy shoulder

in a complete daze, mentally, but I imagine that will change. Meenwhile can you take me onboard? I'd low to wait the Prosperer."

"Dr. Christine Johnson hald her arm try ing to restrain this deter mined woman. He kolac at her clear skin and strong

it is too dangerous, you might fall through the

Ther enough Are the conzinens identified? "Yee, there's no secret " Johnson clid his best to retermose "Decere

what I need to



what, label most in a might to active the what, label most in a might to active the mi

Sitting in the octorial's other on the porch of the branch house. Joinson gased contenteely at the burnings work around him, a pover-sealm of kght and the that searned to have sprung hout has own mind the purgle well of crystels, or and temperature, and topcale.



ed the breach to the waterine, and the reflected coone, drowned is swafts of phosphosesoence that made the lagoon

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Bo denor was file rungsties and two between the second second







Lett: Henrich, 3 R. Parkir, J. Bean, 1902 Operating and A officer objectives acteuity, 6 Billion Opping Mitchsendral formationarrend lage with provide herrs of the Hyspathia formation. Her-The Mitchsendral formation.

terns of the Byre pain's formed think, tabioseed by the pledhone of stameed is the Barwert'scooler. Dear the plant's signrithms were complante, another program added the 3-D effect. To model the grawth of a sual entrype









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emotical snapshot of a plant's exte-

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amboari Ke to describe the work they do. The impleations cruid be assuring. Prociestee risk cohorninble within living plents can be vesualued through complete modeling. Futur indexing future informers is of the system will enable the computer to anness complete growth cycles.



to ast back and watch, say, the SCOyear growth spen of an oak new breaze by in just a flow minutes. One of the goals says Promytes Prostreawer, and which and the service of the prostream of the work on anti-call life at the University of the order on electratic reserved on the creating an endoned work of the songle can be explained by read the order of the order work of the order order order o





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D. E. Fontas, N. Fotanis, J. Human, and A. Seider, 1953 Bosphyl Ado Sadilover glassis a compare this intega. Abare Aydr Zwis, P rev. Puositionenso. D H Forwin: High The side to branch at the apple the transitionates in a segment at the september to be able to be able to be the transitionates of the second second second second the transitionates of the second second second second the transitionates of the second second second second second the transitionates of the second second second second second test second second second second second second test second second second second second second test second second second second second second second second test second second second second second second second second test second second second second second second second second test second second



VOLATILE

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The first maps teck. Broutders topose with prephong today is aloon computer chars. Europeen else mode to unleavy a class free work force that the scrip has year-off Brouders. For works, possesses instantianty chidentiase in this same follows for the sorial fails incoment modelectore of the expansion free sould be instaled.

According to Shoulders, his new pir-

cuits will render silicon-based technology obsolete. "It looks like there is nothing in electronice that you cannot do a whole lot better with clustered charge, "he says.

"For an entropy of the second second

Long, compact or trusts working at high spoot working the built me offense with fair less suck than built me electrostogy. For initiatance Shoulders again we could build a hundresherberpower moler no builger than the shat it takes to delarer the torque (power) role updi light end her delayer you could use the acreen for anything that had delared hit to comparing their high-



an X-ray mechane that its inside a hypo dermic needle You could put it into the patient's body to inside a launor say without exposing the other organis to X rays. We already taxe companies supermenting with these timings."

Partiagal most incredible, DDT may be unablatie zoon. Conditional charge divinces and a sobreshingly easy to make Bhauldens says. We can get rol of the complexised photographic lashinguise. That is even to make motocing and use emple eithing and stemoing. The is neally law-lash. Any Third Went ocamby on do 81.

Though Shoulders works closely with Publish In a relactant to admit that GOT derives from zero point energy for sure. There are at least but com pering theorems that might isophian comdensed charges.¹ he says ¹ and hough zero comit energy as a leasy candidate 1 can 1 asy which theory will be out the earth?²

Other isosentials give Publish work or presigned average model downey. The only Bloger, whose papers inspeed publish in burst plane, bit is vialance, isoagrees with Publish september glasky "Adeption as I an concented the others hugge and the calculations withouuses," Bloger case, "To thisk in Herms of the curvature of space-time is a might work unwill insistence blast."

Physical Attrain Pasta of Californa State University at Long Beach, on the other head, an expression of Californa University and State of the University and the State of California and California opport of california regist and the density opport of california regist and the density opport of the University State (State Pasta) from presential toring powerful dentriant and the state of the State Very State and State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State Very State of the State of the State of the State of the State Very State of the State Very State of the State of

New York University dynamical Brangman Backeron, action of the toppected Physical Annual Actional Technologies and appendix Physical Activation and a particle backer and a well. "Many attracts that appen an in-payoral average taken as a series and an experimental action and a particle backer and an experimental action and an experimental action and an experimental activity and activity activity activity activity and activity activity

As for Pythol I have acceleration related A new version of supportmoths the stylethoud deal with Boyart's circlinaria and moves the cent centers in along Meanwring the locids dreverd to the day we tage of the locids of the style of the style special the locids relation to the style special the locids relation to the style special the locids relation to the style special the locids, can be seen the style style of the special the style of the style style style style style and the style style style style style remaining find of the goals the starting the style style



"Plants don't have teeth, claws, or immune systems, and they cannot run away. So throughout evolution they've been making newer and nastier pesticides They are much better chemists than Dow or Monsanto"

INTERVIEW

ear of pesticides has manifested itself in a growing good at gating A's," he recalls, "but I was siways good at the price especially if we re-responsible, too, for the well-

Enter Bruce Ames, professor of biochemistry and molecular biology at the University of California. Berkeley Ames. a cenetic toxicolocist lent the seacht of acentos to the fieldo-

Born in New York City in 1928. Ames is the son of a highschool spense leacher who eventually became assulant au

demand for "hatural, "old-fashioned," and "organ-to "pottern solving" in the rest in, och was leaving good as genry 4.5, he needs in, och was leaving good as pottern solving "Prom 1965 to 1967 he worked at the Na-tor Solding and Angel Angel and Angel and Angel Angel and Angel Angel and Angel An

His Arres test quickly and inexpensively determined the showed that This a flame-relationt chemical used in chilcifer's paymes, was a potential cancer causing agent Based on that evidence. Tes was banned. And so began the hunt for other men-made caromogens that flourishes to the day

Part what of Amers? Bather than ade an envenomental bench School of Science and Comel University then received a wagon determined to call to account an inclustral hierarchy Ph D in biochemistry from Callech 11 was never tempty many sea as motivated by cread and possessed of a devimay-care stitude loward its customers. Ames stuck with acience. He went on most among them. Not only are roughaimitsr number of realistal chemicals icals we ingest are natural. Ames thinks we should be just as concerned about Mother Nature's troons as we are

But not to wony. The bottom line Arries test mutate, or lab rats grow tuproportional results. This position is a ocule of a given cercinogen was

man-made chemicals heve been testand occurric produce may be higher in

Amen. His optimism about the state of city headines transmid almost daily nontoric ropes. He is a reasoning bits, however, Arrest whitewashen the a shell for industry.

The first time I met with him, we to the Callé Pastoral Spare, stiverhand and nateofly instruction he was spite of having lost his father several

Omn: What have you been dono? maecia. Plantis creuktr'i surviva if they

ture is benegn and only man-made things are bed is crazy. Looking at the Insistency of the network chemistels we institute to do with the observation eat you hild just as many bad actors they're feeding rate. Pollution ion up as errorig man made chemicals. Man- probably almost melevant to pauses of

ic or natural-are cardinogens. But people looking at human cancer are findand values detary imbalances Omy: Would you call a treatment a par-

Arres: Yes We're starting to unravel the To the tractionist, the size that each breast, coins, storrach, They're out all printed down completely, but epidemiclosets are finding these causes have Then we said "Well, let a extrapolate down a millioniold. One millionth of likely to be anyo and report evidence. suggests it's not

save millions of lives never hurt peo- very dirty it's not aesthencally pleasing "Die, and was utimately succeeded by and made there is a small benith tao times more of its pessicides. Many of conne (which kill needs in the same all fliet polyton in the ar? build para that don't put out any pollu- way is the synthetic organophosphate amount. When we had horses, the liten thousand microorams a day from streats were full of manure. We've a rangle potato. And yet you're eating. Omer I still wonder. Don't man-made pone to nonflammable polyento for dry only about lifteen micrograms of the

rata-past befow the level that would stayed around for years But it did don't want the arm Los Angelus to be material inhibited, one day of smoking for-Own: Wouldn't it be better not to have Arrans: Oth success have more our pollutants have a cumulative effect



44Man-made pesticides are much safer than natural ones

made penticides are much safer beamounts, and they've been tested more thoroughly. If you get rid of mamen-made perfordes and you'l have

Omni Determining what is a safe

about that for a long time. Nobody can tolerated in rats or mice. Dono that, half the charoscals over tested-swithetpanoer and bath delects. At pollution ets they're uniferentria from the stand

chemicals and pollution?

vitaming, there's a safe dose and a dartuism of toxicology with cardinopara We prive these exercise doses to

because we're getting lower amounts of them and they've been tested more thoroughly.97

ble ones, but then many buildings, order a day Solarine and chappings part per billion of something in the way

pounds of pestordes a year Atoms. When you measure what is per-Otto: But doesn't thet accumulate over Arnes No pasticides get degraded DDT, the first synthesic pessoade

clearing. We could go back to farme- man-made organophosphate pesti-

None of these feats make series, yrd try politites because of greed, and ery year Polution is a nontssue in terms of public health. Dowously you that is worse than whetever nature

Arrest Theorem on programs munoriting a ournalistive effect. People used pestractes before DOT They used lead arstantly made things better. They've made fruits and vegetables enormously cheap and in general the more Onver Do you recommend supprmarket over organic produce?

Area: Chi, lao minisi a cara halo interting and the second seco

This survasionable hear of systemes downcels as to been on last surrents they give error most abased on last surrent mass channels to at a not hen hear way where pathing machinger datase of the used catalongous movement. Partiley and catelenge content hearts of pertuued assuragement in housing of a unit assuragement in housing of a per hearts, contre any ensured hard on a survey and housing of a per hearts, contre any ensured hard on a survey and housing of a per hearts, and housing of a survey of the survey and housing of the data survey and housing of the data survey and housing of the dataset of the survey and any and board board on the survey and any any and the survey of the survey of the survey and the survey head to be the survey of the survey

Orver: Whet is the error factor in datarmining how much of a caroinogen is eate to incest?

Areset: The rate estimates are based on witholying a umbar of exercises assumptores, but he real rates in the real taset to zero. A day glass of Ara-fainted apple juce is one thread the possible rate of a case, you many come aghseries her nails tern the affaitcen modi ter annicht. Al hers hypothikael can or rake may be notificitie.

Oren/, How did the Alar scare come about?

Arrest Environmental in organizations have an incentive to surgitariate the target and the public Thist's how they public them new methers. They're not getting very good scartific advace in my vees an applies from any most and have an applies from any most and have target and the party most and have targets from any most and have targets in the any most and have targets in the any most and have targets and the party most and have targets and the any most and have targets and the any most and have the any most and the applies in And making pagies mail experint and scotting pagies mail experi-

Counterpoint

Brase America arccess controversy, in Christicas elevinithere. We thought we distants with you this opinions of other ecentratio and commentations recarding Arres and his weives.

PROVOCATEUR

Janet Hotheway, sensor atterney, for the Matural Resources Defense Council Wastington DC Otto of the beggest concerns public health and environmental advocations. Insee about some of Bruce America claims about some of Bruce America claims in the tendency not to destinguish the reverse what his has reasonable and weat hells any her house reasonable

In the augments to trightph flowones and concords: Annes lends to constant on concords: Annes lends to constant with a known Net were in small factions or init in initiation and certainly all the synthetic substance is have been fielded for concordgene. Sense of the concepts all are provisionize and play a role in sporming in hardre officiesion and research But they absuld not be accordinal by the public as fact.

S BEYTER BODENT BROASSAY

Dr. 1. Burnard Weinden, diester die Derspreihenwei Gurane Ganter derspreihenwei Gurane Ganbergehen Gelagen der Physikaler auf-Burgenon d. Guranten im Versteilung im Burgenon d. Guranten im Versteilung im Burgenon d. Guranten im Versteilung im Burgenon der Burgenongen der Burgenongen und im beiter auf der Burgenongen der Burgenongen and umreichellte, wind weich der aufganzum 7 fein den orten im personally to beier frai resonnellte und mit beiter der Burgenongen der Burgenongen und der Burgenongen 7 fein den orten eine personally to beier frai resonnellte auf der Burgenongen der Burgenongen versieht aus der Burgenongen der Burgenongen auf der Burgenongen der Burgenongen besanzen ein der Versteilt bei der Burgenongen eine der Burgenongen der Burgenong

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Concerning massive-inservolution lastic Compounde are tested in massive distances because you must increase the sensitivity of the test Otherwise you'd use thousands of maps Furthermore, there is exclinition tiese compounds are carcinogenic even at the lower closes, often at ticses at which losicity was not seen. So there is not a simple comflation between locally and catchingenicity.

HOW IT PLACE

Description des senses aborrively for the Environmental Defenses Fusion Environmental Defenses Fusion environ environmental desarror tilse a une nere nere analysis und live no rota norms of interpartic consideration Armas is a discriptional consideration and a discription and a sense and pose obtaids accurate for increased the lacts of the posterial of the analysis and analysis in the advance for an an environmental and analysis and analysis for the read where to free and analysis of the advance of the sense of the read environmental and environmental analysis of the free advance of the advance

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Both people may want to tay organicode Hywere cayeric todd wont decrease—ind may oren oightly macrease—ind core tells. In sems of cancer prownition, poor pice/e in/o much ostar of tabing more vegetables with marrinade postectes that likewitodas. The inch are always heather table case, and more waited dets todas case, and more waited dets. The toda ting so can do fer the poer

Chevet How did you feel about the 67 Minutes coverage on Alar, when they interviewed you?

Amount leads prody unlegging they re-end and scope and semention anum. They dight go to the boat scoretariate nor did they ready want to know what the beat points to know what the boat is an anoing the sementiate of the method of the sementiate of the method of the score of the set is the not to advant a score of the start is a not to advant a score of the start is a form to be any computing for including Ormer. Do you have a patient of the

Ames list? Ames list? Ames inc. i rever tool to period if Ev-

Amage No. I rever used to perent in the env industry in the world that develops chemicals uses it i send out the bactered strans free. We have described how to do it and everybody with some Incode/age rearring can rel rue in the best you determine. If the christer of baselines in the christer of baselines in the contrast of the period of baselines in the contrast status can be period. These particular status can be the period of the period

Affiniti The most people in the field here then a cell becomes a conter cell inscarpt several mutations in the great Mann chemicals and testing at musice deset they kill cells and cause cell during appearing on the door, any chemical absorb morphological. The in mult appeare to instead the door beginning on the door, any chemical cells absorb to instead and the search cells absorb to instead and the door in the state of the cells one indicidant in the upper test to the cause is instrugible to be too much defervient.

Animals are designed with leyers and layers of detension against toxic chamsolity maural peakedes and chemicate



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waste products in nucleer envergy?

Arrest Thet's not a big problem, from what I hear

Onter What about a hundred yeals, from nos, the environmental 'sins of the fathers, and so on?

Amendi There wata atawaya polikition Thanka ta mokem otomica la hundhod yaara toon now our ife expectancy will be much longer filsen it in now You caulash support totay a wortd populaborwah me tochology of the last cenbry The polikition in Landhod la hundhod jawara ago wata much wittoo than now. I wata in Chero vehicip trochwa. It a that Weiker sation is popularized.

Other What about chlorofluorocarbona (CPCs), suspected of breaking down the azone layer?

Arres, You might eleminate the CPCa in epital canas, since you don't reelly read them as propellants. CPCs as refragments are really useful. You don't want to eliminate them until you find is before alternative. You may want to re-



ONE LOST BOY LEARNS THAT YOU CAN'T GO BACK TO NEVER NEVERLAND.

I went to see Wandy when I was in London. For old times' sake, it's a drag, but she expects it, and what can I'do.

"Oh, Slightly, you really are a sight," she says, and smiles as if she expects me to share the take. "You look so silly in that black leather tackat. And why do you have a hoop in your ear? Do She laughs girlishiy, even though she's over

you think you're a prate? She laughs girlishly, en

I don't even know why I go to see her. She always insists I stay to tee and serves sweet baccuts and fuces over her kid the whole time. She gets to me, We have what passes for conversation in har household.

"Slightly writes for the newspaper, Jane. What do you think of that?" Wendy asks the kid, Jane looks at me owishly and says nothing

"He just got back from comowhere very far away and exoto. Where was a this time. Stahth?"

"Nicaragua," I say. "I was a stringer for the Tanes Covering the war You may have heard about it?"





more becauth the trace and doosn't. For play didn't anter into it-we in the anot industrial scene, setting



11 / easy seems to have forest W a tidy Noverland. Percept

a tidy Neverland, Perhaps. Wendy says He gets work fow and



with the redelens, the long after- this year I twok he will I have a feel-

see "I see all too well His sort is I care about her. Though she was or She's right-mere's a feeling in

"Found it. Wenity' Just forget it.

When Lieave Wandy s house, I go

ON MEJUST AS HE LEFT IT ON HER. TWAS THE ONE WHO NEVER FIT IN

to the wuth as I could thering in "Nay failter with me and my mother when I was used as fail." I share allow me if I had even thought about trying to find my faither. I solid that if I were found him: I would thim for whet he dail to me

A didn't mean to do ii Hei didn't tave what he was doing. He was coshy thought the tave and increantly herder. And he Eightein my Ho. All my dir, I have warked to be life her tave was a to war writig blotte and tages and searching for the groot silventure that he widdly provided all hock was been widdly provided. in the heart of the botto, subimitiy confident in the way that only a boy cen bo.

I don't belong in this place, any more than Wendy down. But he left me here. And there is nowhere else to on

He'll come tonight i know he well And T know that I would fly every with terr if I goold

If the took me iny the band and told me i could fly, i would go back to the relard with all its joye and temper, i would follow tim and unit the tool times does ease.

But I can't go back. I lost my innocence long ago, noir I have lost my youth as well. Though I am only still years old: I feel appent; work out, uses up the builderly kills that I bought in the thingphas 85 contestably in my hand, here also an integration of the about fighting in my views to varlout war zones if light him by samces. It have a chieses I there.

Toright, if's ether Peak or the And if he wind, he world think twos. He's dating throat without hestastice, never recognisms his offs companies. He's Likegh file caratises length of childhood and ify oth on the aversing wind, attentially proud, otentially caraties, attential by young **CO**



ANTIMATTER

UFO UPDATE: The near-death experience and alien abduction may both be tied to childhood abuse

Are allocad-state or perforces in adultfacil tech of enderced totarres and interactplatic Ken Elegi of the University of Connectsist stady shows third performance in performers (NUC) enperieses (NUC) adoft enperieses (NUC) ensite suffered alues when values.

Progra stridy pro-9ed 170 program exporting UFOs and NCEs. Bidgoots Miled out a definited quantitiennerm, dradgong up information on drift boots, and other tators. Thing then compared them arrowers with these of a recent



mate Weigh to turn an to other realizes where they can foot after regardless of when is baptering to when is baptering to when is baptering in the statement realized interview and the term other and the term other and the term backs in the foot interview and be generated as all sources and power backs in any part of backs back and be generated as a loar part other part backs and be generated as a loar part back and be generated as a loar part back and be defined as how the back product back part back product back part back product back part b

Fing's interpretation does not set well with some child abuse experts. "Is 6 a hyperperception of reality or a dialection of reality or a dialection of reality or heats a recognized aption of ad abuse

with these of a control study where did that supporting, the survey revealed, here the study where did that supporting. The survey revealed, then study where did that supporting that the survey of participation of the survey of the survey of the support ings or NMEs. This also bound that no mether whet the support of the submet of advant superior is such it heightance asystemic advant subscription and a particle with heightance asystemic advant subscription and a particle with heightmete asystemics advant subscription advant heightance asystemics advant subscription advant and aparticle advant and whethis on Exercision advant subscription of whethis on Exercision advant subscription of subscription advant advant and aparticle advant and subscription advant advant and subscription advant advant advant advant advant advant subscription advant advant advant advant advant subscription advant advant advant advant advant subscription advant advant advant advant subscription advant advant advant advant subscription advant advant subscription advant advant subscription advant subscriptio

But the inset conserverse append of Fing's sarvey to be high indexes of disturbed information appendix near instructment, around information and indexed faces reparting UFOs and NUE's tarss out that these people were also nave likely han offens to meal provise reparked in our three infolding. They fine proposed a daring integratation of those findings is well-known, he spati, that challen expended to physthe well-known, he spati, that challen expended to phys-

It well-known, he says, that children coposed to physical advectors, second abace, or a negative home atmosphere and strangly motivated to "tune out" those aspects of their world to disposate filternetwise from the source of their motions. "By doma so," Raig says, "thay are their forces the source of their sources and the source of their motions. "By doma so," Raig says, "thay are sources and the sources of the sources of the sources and their motions. "By doma sources and the sources the sources are sources and the sources and the sources of the sources are sources and the sources and the sources are sources are sources and the sources are sources are sources and the sources are sources ar who does not wish to be quoted on "outrageous sources" lepics. "I'm more indexed to see those people in mereaurospitale to before your attactor an a stategy of coping with pair, rather than a hypersonativity to things that are ready out them in an objective series."

These figurand, a professor of side development at the University of Minason with the side as a later resource on the causes and convex annual of their abuse, concertain and the side of the side of the side of the side of the end of the side of the side of the side of the end side of the side of the side of the side of the end side of the side of the side of the end side of the side of the side of the end side of end side of the end side of end side of the end side of e

Bing objects. "I do not want to pothologion these prople," he says. "Survey participants reporting UFOs or NDEs are no more fantacy prote as a group than grocery store direkt or anyone mism."-BYUNIX MUTCHE



ANTIMATTER

EPTILIAN MOVIE

Video surtel stora mas-is frequently receive Unicity package a promot-to various movies. Usually eases and posters-not with a new way to twon up its publicity company for The Swperit and the index, a film about odeo distributed by the eormatial stores aroun undon, But the publicity lartied store managers ind outraged animal lovers



atwanted snakes around win arritising "We re eved dozens of letters of incom," says Royal Soci ty for the Prevention of busity to Ammals (HBPCA) wasn't all good," says CIC's European marketing manager, Alastair Holm, "But we dich't just stick the aless in boxes. We duded instructions on w to care for them as w. #

stripped Chinese rat snokes are not personous, Helm says, and they were hand delivered in clear

plastic, aerobal booos marked Live AAMALIS But Adarts, Zoo rephie cumber Howard Hurt Soy "There are proteins with that kind of deleway agate These animals are crea lace, left is the sun or coll wy will die " What's more need to be fed for three months, Hunt says working that long could have been risky to the enaker' survival. "Three months is stretching it," he says. "And they do ne of willing too

What over happened to the 700 synthes? "Quille a low shop managers kept whatever, "Helm cays They are perfectly sale to

They are periodity safe to have an pets." The publicity campaign to: The Sequent and the Assidow may be over but CIC's snake troubles arrent. The HERCA, says Comp. or first free Cook, has filed charges of arimal cruety against the company. "To mo, using annious for publicity like this doesn't sound leve a care of purposeful crueity," says Hunt "Instead, it's just one of those thoughtees acts done to snakes and other animals that people don't think much of " —Sheny Baket

SKEPTICAL RESEARCH

Do parapearchologists moboliv believe monychic tenamena? A recent suc ry conducted in Great Briten has thrown doubts on

The study west carried out by Dr. Susan Blackmore a research fellow of the Perceptual Systems Research Centre of the Unied in studying the beliefs forsto as well ground then deseguested reasonch as the teld a most

What was even more star prising, however, was that believers and skeptice Brizen, Blackmone learned scowered that Dr. S. G. asi-the country's leading vestigator in the Theory

research results. As one more, "I was, along with so good, persuaded by Soal's work that there must be something in t. But the discrediting of this work leaves me taking overy study of positive results as n mittable story-to be dis-missed on the basis of a knowledge that such thetes

The primary difference between the believers and

"Patapsychologicits are more likely to think the

findings indicate something prepared to speculate ab the implications," asys Dr. Blackmore. "They are more hapeful about resolving the problems, especially if unconvinced by much of the

RESEARCHERS, DISILU-SIONED WITH THE PARA

THE THERAPEUTIC

UFO abduction twomarchor Budd Hoekins to hosperg mud Heine Latow, a New Yolk pupchastrat. In organity find hypother persister and any other thosperite aspects of UFO abductor research should be hereful by merital health professionals, act, UFO metal budge, managenetic should be pusch as an experite should be pusch and the relation of the theory of the should be pusch as the relation of the them intervorelation of the theory of the should be puschere.

Labbee gives hopikins and other abbuttors tosearchers her due but lacks as the bot them to reave own row that metric headth professionals are matable. Signi Labbee, "The nemprofessional is unqualified to deal with the complex perforsame questions that arise during hyproxie mamerics and after "

Regions, lowever, is not conversed that homesels and conversed that homesels and converse that homesels and converse that homesels and converse that however homesels and the second homesels addresses but refers aladdresses but refers aldresses and the second homesel homesels and the second homesels homesels and the second homesels and the second homesels and doing it for the mercaytic homesels and homesels and homesels homesels have a homesels and homesels homesels homesels and homesels homesels homesels and homesels homese

IN THE STARS

The best way to get a stepple to entrice activity may be through a flattering herorospie. That's what psychologist Peter Gleik and disconsities of Lawrence University found when they conducted a test of the Birroum sitisfuel

Bomum statements are generalized personality descriptions such as "Though you are a faceoly person, all times you are sity." The Barrum effect says that people tend to find these statements sociuste even though they could apply to virtually assee. Glob gaze other negative or positive Bernum staametel to belavere and desptos alke. Some were bid base were patternized horoscopes, however, while others were told that the sonations that might or might ned acoly to them.

ers rated the so-called astrological descriptions more accurate then the same statements not labeled astrological in orgin But surprisingly, skoptics who received lawanable hareecopes became significantly more positive in their view of astrology itself.

Physicleling Hey Hyman of the University of Dergon Parket Ite Lawrence University same should go back and cale the University same should go back and cale the adjects again. When yo adjects again When yo adjects a spin When you adject a spin When you adject a spin with the same of passidenties, or put adjects again the same with the same of the same even a few mysical explain the results —Paul McCarthy



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CONTRACT/FROM FALLE OF

Christine frait monring. To Johnson's un trained sign they seemed to be straining lighting of polenginness and powersw. complexities and prinalizable There were grant tomstollies bernes and of bases public grapes each this take of a base ball. Togother they glowed through the overhealted light this prevails set in the face of the sun.

The new next results after the same in the Protection the control participation protection and the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protection of the same of the protection of the protectio

"Johnson" My God, what have you been doing?" Christene ran the infatable onto the beach and set back, exhausted by the buffeling waves. "It's a bossnical mad cuse!"

Johnson was so pleased to see her field he larget he regret over ther weekly separations. As the explained, the had her student classes to teach, her project holes and research temples to record and ceataloo

TDr Ohristme II I wated all day P He stepped into the all allow water, a car mine surt lifed with glowing aramacula, and policiel the infaltable onto the sand He tabled har from the carb, his syste avoiding har curving abdomen under the smock

"Bo on, you can stare...." Christine prosped his hand to her stomach. "How do I look, Johnson?"

"Too beautiful for me, and the island We ve all gone quiet."

'That is galant-you ve become a poet Johnson'





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"Of course lineve But don't eat it ye! We've a lot to do, Johnson "

He arcoacted the detree, levering is the and the second the detree, levering is the determined of the total of the detremined of the total target with the total of the detremined of the detremined of the total of the total of detremined total target to the total of the detremined of the total of the total of the detremined of the total of total of the second of the total of total of the second of the total of total of the total of the total of the total of total of the total of the total of the total of the total of total of the total of the

"Did you set the traps for me-Johrsson?"

"Last all of them and put in the bait."

Good Christina heaped the nets on to the sand More and more she reserved to hurry these days, as 4 she heared that the experiment might and "I can't understand why we haven't saught own of them."

Johnson gave an eloquent shrug in

lact he had each the canned sentines and refeased the one bird that had stayed into the trap betwithe patialed of a gaint cycool. The nervous creature with its silven seriet wings and institute feathers had been a chear of hight. "Nothing yet-chey're cliver, those birds."

"Of course they are—they re a new species." She set in Colonel Pottless cherr photographing the table of fault with har small carrests. Those grappes are hugo—I wonder what sort of wree they'd make. Champeigns of the goots grand cru.

Werky, chrosen eyed the pacete and yoken gobes the third setters the home analysis for the legacon, where asked by Chrosens, where has been been asked by Chrosens, where the been been asked by the boots how ever has Chrome was also ing them. How every has Chrome was also ing them, the every and analysis of the boots and the theory of the chrome boots and the even as quarky that is was guard to be experiment. Phenghan the chrome and the boots and the the chrome and the the the chrome and the the the chrome and the the chrome and the the chrome and chrome and the chrome and chrome and the chrome and chro

As if aware of his impressive physecue ahe and 'You look wonderfully well, Johnson, H this experiment over needs to be justified

Tim very strong now-fill be able to look after you and the boy'

"Emigrible a git—or sometring in beavean." She spoke in a matter-ol-fact way that always suppreschim. "Tell me Johnson, what do you do while I m away?"

"Tithink about you, Dr. Chinalana."

"And Loertainly think about you But do you sleep a kit?"

"No I'm busy with my thoughts. The time ages very quickly."

Christine casually opened her notepad. You mean the hours go by with out you noticera?"

Thes After breakfast I III the of lamp and suddenly its time for kinch. But it can go more slowly, too. If look at a failing leaf in a certain way it asems to stand on 1.

"Bood. You're learning to control time. Your mind is enlarging, Johnson

Maybe Fil be as clever is you. Dr Christina "

"We I think you're moving in a much more interesting direction in foct, adminan to the you to est some of the truit. Don't work, the interestly analyzed it, and it have some empioi!" She was outing shoes of the motor stood aprie "thear the baby to by work?"



Johnson hissisted but as Christma alcree had revealed a single deformely

mango. It slightly numbed Johnson's

and flowaring creepers that crowded the

'Lam manior Christene ... I didn't

I've been here for an hour." She bauched hes cheeke searching for any desiracted marrier Behind her, the m The donee well of peirre, large, and flowbleeding

wank. She held his shoulder, sowring

stores. You don't look as if you ve eaters

birds. Graceful. feather upped wraiths When he food his eyes onto them they

from her skin and her. Supervisosed inders. The stard coaks that had imposed

"What Johneon?

"We can learn to fly Thare's no time

Well go and live in the trees. Chris too We'l live with the tech flowers. intratieny and beauty of the sky people benede the ormeon lagoon as Johnson

Tim clad you reduced in " the U.S. Na-



vy leutenant told Christina. "One of the back reached the base at San Juan Wa mod to loogh it alwa but it was crushed by the weight of its own wrige Laka weryhing alwa on the pland."

He portical from the bridge to the ungle well. Amost all this ownercowsite cars opy had onlinered into the lagoon leaving bohand only a leav of the congress paties with their bird vaps. The blacsome glowed through the week fee thousends of downed leavance.

"New long has the integhter been here?" An oldar owner, a government rotentist holding a par of enoculars peered at the notified hull of the Prosperio Bolow the beach house two asiors were loading the last of Christmer abare into the initiatable "It looks as if its been standing three were."

"Secmenting," Christena told item She aat beaade Johnson, smiling at hen en oountgingly. When Captain Johnson reakeed what was going on he aaked me to dail you

City as "That must be roughly the the option of trees new species. That callutar clocks seem to have exceptedinstead of reproducing they force-lead has can these like those guint frus final counties. The loc of the inthe count seeks. The loc of the indepartment of the pretured toward the impairship of the pretured toward the impairship of the indepartment. The pretured toward the plans out finand is altered time ensegreat blocks of memory wine coalesc, ing in his mand, and that is bot thrown isto the air would server appent to land 'A bits of dead tak hasted path the outer a trow the glearing boorel like discarded coaleme preserv

way? the ligutenant asked Christina. "I'm thinking of the baby."

"No 1 didn't eet any of the frut " Dreating said firthly "I've been here only terce, for a few hours "

plo will do all the tasts "

And the island

We ve been ordered to torch the whole place. The demolecon charges are timed to go off in just under two hours, but well be will out of range. It is a pity, in a way !!

"The bards are still here." Christine, said, aware of Johnson staring at the trees

Luclety, you we trapped them all The scientist offered har the beneculars These ergence wastes and har the beneculars These ergence wastes may be harmoned throws what might happen if human bengs were exposited to long term con bengs were exposited to long term bengs were exposited to be hapter to there of a shore all tay.

Johnson latened to them laking, glad to feel Christine's hand in his can. Sho was watching from with is guidt smile aware that they abased the competency. She would try to save the child the last (sigman) of the experiment, and he know that if it survived it would face is herco challenge from those who leared it most realises them

But the binds endured. His head had clearing, and he remarked the vacions that had give in time a bind groups of another more advanced world. High above this obligated canopy of the forest he occid ase the imperies had setuand the great omnosis binds alting on their wrige. All west they occid carry the therem forward.

The meta-let bits, when the minutes had been windows his dock, the outlar set off Through the whet A at a possibility of water historical the laubeaution of the set of the set of the in defension followed them, then publical acade the government sciences, and least from the real sking deery nor between the historical to the three a function for taken to be the set of the states the best had a with lack and the states the best had be the three and had been had been had been the the set of the had been had been the set of the best had been h

Promithe policition War Fever to be outlaned by Parar Strain & Grouw Inc. en April 1907. Copyright II 1991 by J. G. Balland

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INTERVIEW

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cycle the refrigeroom when its Koame is over Put a recycling system in your our air conditioner Nou kaap on nitbing aver, meining CFC manu unnoossaty. However, it's not yet clear CFC are breaking down the conne kayer. The organic bicreme and chernes that appair to decay and damage the conne liver too

We don't know that 99.9 percent of the coone layer damage and due to refurni sources

Oney: Won't that rampant pollution cetch up with us?

Amia: Papele wil have to start threiring more long-term. When assumed by bays a tridge, they re not willing to bays an third cells in hundred defamilies the because it has insulation, when thought it assume the hundred defamilies thread the term of the applications of the environ the country shands arrange in centres so that people will reveal in thread the the.

Gimently regulatory agencies give unities protection based on how much elocitically they set. If its cency. They should be giving utfates profile when people concerve energy. We can have a lot of energy. Construction of energy is the boot thing the environmentatia can recommend.

The bisk way to give rate cancer is to feed themestic calcess. Cutting calones by Herty percent, almost doubles then the oxpectancy, and their cancer rate poet way down. So much fait is bad for you, observing to bed for you

People sihoatish i weny alocal minuaouia raka i te expectancy is gotting longer cancer salas avent going up peoced for tenden induced cancer. The beilt advise for a long the sit to do who your motion's bid you. Ear a testaecard dam. Don't drives too much dan i makas anale. Ear loss of hags and veguetoria artification avenue.

Owny in the party Seventius, your decovery of the matagenroity of some man-male chemicals helped spine regulations governing their use. You were the during of the environmental movement.

Americ Al the time, all of up in the faile lat the lance there were all these faile themcose corring in, we should give them a hard look. So we started set the should be an end to and many tobe caronogens. Everybody got seared. But were people bodied natutal otherholais they found just as many caronogens.

Now we we learned a lot more about centor and are more skeptical about additionalities from hush to low draws We understand more about the body's netural defenses. But some people and still stuck in the clears of ten to fitgen years app

Everything in the is fail of one-satundrad-flocuum date. For even cucern there are contra-behaviora mass so if her EVs reperting all is always and the event of the event of the event which is not interact the which is always ing its three in the categories and always ing its three in the categories and always masses for not hanks. Catelon by bars are masses for not hanks. Catelon by bars are masses for not hanks catelon by bars are masses for not hanks catelon by bars are the date of the categories and the second compary dump in g pathoge out the back date. In this additioner masses the date of the pathogen and the second categories and the respectively and the pathogen. a year trying to control poliution. Although much of this is useful. I think is will have little interace on public health. And we're spending only sight billion dollars a year on sil the science in the United States.

Our lab aloneus working on time or tour raise that might be one-mis-houdred nask. The EPA at tying to prevent one-metion nasks. The answers that ill intercove public hashes have leady to come from actentific robearch, not regtration and an another the second second second attack on the second second second second attack on the second second

Ottotal Why have the environmentalizas turned on you?

Amain They don't even to want to show what the scientific community as a whole thinks.

They assers to go to one end of the opmon spectrum and exactacents if Per-

The American Denial Association says: "You have a 96% chonce of developing own disease" and losing your smile!

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FINE









RAPHAEL SOUTH

heps bepause they have incentives to scare people to get power and more memory. The attucks too othin sector to a 'too people in itidicity are work ing for greed and we near king for untage and without both Fedding vitacas is a transmission more state. The des that 'were out for the good of transmity and industry is working that what drow the possibility and it was all howards.

Deni: When you say environmentaliata closs that include the Natural Resource as Defense Council?

Arras Yes, they're one of the workt Orman Are some environmentalists will-

Arrise Tim an environmentalist Evolubody is an environmentalist. Evolution to see loss ar polition and a more healthy public Nebody wints the world to were up it is pat a queetion of tracktis and they way with time A to B.

Others: Why citd you agree to testify against This?

Aftest The government made a rule their being spearas oction rule of other base two occursed on the restartiant Of course they technic domains any toot warned scenetring that would'it town warned scenetring that would'it town due to excernice CQ. They replit have been happy with everyone in an absense architer. The team follow spat houses calch on heris that paierts have some beers and tail realises with a caparate burning. Putting kids in albasics in globalitis is not the way to solve that. I more sure I necessarily live works a bare on The I. Just dan't think if is the government's job to coerce pair only more putting their kids in the pairting laden with filmine relandance they chever tested.

Cress. In your ranking of various can car raiks, one you've rated fairly high is as in mobile homes. Why?

Ames You breatme in twirth photoand aparts of an a day You drink one quart of water a day So of Fiseria a part per milian in the air and in the wetar you're going to part many times mouth from the writh a factory of there is a chemical in the air a wofering the strength of a pinkly hard to cotracting the complex penkly buy does in a day. It's pinkly hard to cotracting the strength hard to cotracting the strength hard to coto mouth of the strength hard to coto mouth of the strength was therefore in a ford of in

Onver Since that time you ve chilled acentrically and ichologically away from the environmental conums.

Arrise: Some of the ones I know are so cashes. I tend to believe in markets with the agnit incentives with chaste and competition, you're befor of in everything. In any case, proceed on the or tend to red-ad bacteries, precederor, the



If it's meaning a ptolet. They land to be disarustful of industry producing pollution. My vew is that, we should change industry for producing pollution, rather they begins as and unter free.

Own: Were you wrong when you agreed with the "one-molecule" theory, the concept that ingesting one molecule of a mutagen could cluste mutation in an organism's colls?

Amiai Wa via all learned in the servehern 'Deey cell in your body is filled with lunghread of thousands of modecise of carcenoper, juit maturely. The con-models for the server of the server is done of the server of the server research to hank close. For many chemtacia, such as a sochemin, the the chemism research to hank close the server research to hank close the the server research to hank close the server research to hank close the the server research to hank close the server's research to hank close the the server research to hank close the server research to hank clo

So is that about it? I'd like to get back to my tab. It heally like to polye anno balone my noutcest ge out

Cirrue. Is that why you're so pressed for time?

Amas Wall (In working on fings the) are real risks to the public. And I don't like to take away from that

Others, In the professe to one of your perpersyou describe your field, garatic toscalogy in Dente-esque terms as being in the "dark word" of its development is that will trea?

Arrian. The statesch has been profile there will be caused on the state of the states will be caused on the states and water hereby states has been been approximately and the states of the states of the statescher states of the states measures of profile be the statescher states the profile been statescher statescher states the profile been statescher statescher statescher bescher statescher statescher statescher statescher statescher bescher statescher statescher statescher statescher bescher statescher statescher statescher statescher statescher bescher statescher statescher statescher statescher statescher statescher bescher statescher statescher statescher statescher statescher statescher bescher statescher bescher statescher state



ter supplies agricultural products or

arms race take fully into account the en

Design and produce for exemple, a salor the organism so that it can reproduce Use I against your energy so makes more weapons a viscus or

But not there a flaw in that mou mont? Isn't there the possiblely that the

There may be a way around that

only specific genate signatures. That way you can elimetate whole ethnic groups, without worrying soo much

None of these weapons exist yet waanoo guile inother to deputs and bombs. Many scientists feel that history reght will be easier to build a large area

More likely though is a scenario in tory made more powerful and harder

Virtually every developed ration is cur rently funding research in group that can datily be islapled to produce weap-

'How do you know what's point on disease, or if they are trying to figure tempts to arrive at a comprehension

cause of they nature, these modern Deques may prove herder to stop and

TERRORISM AND THE BIOCHEMICAL

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But inspired by the pand these inredents had caused, taronts—not to inspinon multis kanalize, and extribusits—knew they had ajumbled on a for matable new restrument of political cheroon and intrinsiston

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A new high is parvation, registrative an application marked the optimizatian applications in the optimization of Garun Brazivieri. Breek and Danne Cheng Were accused of attentioning to milamess a source addition of Cercyon by in the Ubelia with the Balacianan Salavi additional applications and an application of the automarkanid on mila Cercegon rankin Rhos and Cheng Belevisid public with contrainer conducts.

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VIDEO GAMES

BEST OF THE YEAR Bettling monsters or becoming God is easier than choosing the most cutstanding video games

Let year case a torreng point in volve game betrokogy-indepared declares of the signtent between the treatment they have (defin) and the new of a new generation of uscents the foll game systems with superror source, prophets, with superror source prophets, with superror source of the supertreatment of the MCD Table.

 Genesis achained an early lead in the electronic market place, but the NEC. Turbic Grate-CD conveyed a indice game vision of the turbine with incomparable completed data museoal scores, spoken data league, and nich graphice

Also, because the portfolio TurboCraft/Express uses the same cartridges as the TurboCraft-CD, NEO became the first wideo game company to take superior sti-home game quality "on the road."

THE VIDEO GAME OF THE

YEAR Super Mars Brokhen 3 (Nintenso lor NES). Sure the pat another jump anti-obdigs platform game, but Super Mano Bodhens 3 re knows to perinana and protostoly the most influential and wittely loved video game show the bandar of Roc-Man.

THE BEST ARCADE GAME Castowaria 3 Drawline Curse (Konami Kr NEB) claims some of the best graph to even to gapper in a Ninherato castissipa. As the changeing here, you become involved in nonskip octor as well as an integrating Supermatured story in the

THE BUGST SENDITER Manual Lar MECTOR TURDOTTER COL Da the face of H, Monsaler Care put more of the same optical moresters instand waterow, a carbonish "Bills more into obspace an amy of ovidioors. But this the lar man hope to a great California (non-rhyle massed source that adopt immerses appeal to the anothe account Even is I chart like the game shell be for anothe account make non-hope to do great.



THE BEST PICLE PLANNES GAME to Kash to 2 VIGE In TabloClass (200) With a major and participation application of the transfer and tablepaced Mithelen early and tablepaced Mithelen early may be based to 4 biocent Lond or the stream aut may advant diverse the stream automatic the stream of the transmission. The genera bard for loss that a star introductory argeo length, not gather ab outleant as its introductory argueres bart has the introductory ar-

THE BEST STHATEGY GAME Populous (Electronic Atts for Genesis) One or 1969 to best computer games became a video game in 1960, a thinker's game that translated perfectivito the graphics quelity of Genesis.

THE BEST SPORTS GAME Super Monico GP (Soga for General). Here is a null Gandaid showcare and one of the financi driving garmes over released. Not only do this point of view viewes transitial particulty to the hothe syssem but the addison of a championship mode exists broadth and testery to this pedie to thermal addition.

This section. Additional works down and the scheme to the

GAMES

BAR EXAM

Wet your whiatle with these mixed-up drinks, then create your own recipes in Competition #52

Bistectory you might himse bistectory you might himse big galaxy with it here systeage range the galaxy field and be ready with it here systealized and the system shared many dama cannot and the system that a good mendicupat many dama cannot and many dama cannot and many dama cannot be not acquired with the many dama cannot be not acquired with the many dama cannot be many dama and search- and into the an occlewed out the shared and searchman and search- and shared hard the is occlewed out the shared many dama and the big and search- and shared the shared many dama and the shared many dama and the big and the big and the big and the the big and the big and the big and the the big and the big and the big and the big and the the big and the big and the big and the big and the the big and the the big and the the big and the

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All this naturally leads to yet another olde form There have been leader work plate been leader work open, eleginary persistent light built plates. Now there a her mandling or this plate The eleginary works and or any plate. What do you get what you more works and or any plates. The dot is observed of mile of magnessit? A Philtics Bernedwise, of course

If you max gan, lemon

Juse and child social you go a from collins but what do you get by noticing a armain white announce aroant "A Joan Cohine Childe Togula bag drivina include Togula Moolangpirol Joan Durito and backased and Asasimdar Hag (Brandy Societ) ber mady.

There investages the investor operating loads a their types of logic in a software investor in the software investor investor in the best fund circumsult and Methop. Petrogr and Deck. Consol for National Conference on the Intel Conference on the Intel Conference on the Intel Conference on the Intel National Conference on

TEP UP TO THE BAR

Cricia the ingradiants are teted, some of the best mixedup chrise are to nel-worken that a little thought should oas/y being the neme to mind Howmany of the following dimission you identify?

- Genital and tomato julor
 Position investigation
- mouth and heavy water 3 Jim Beam, 74Jp. and
- Lamp of and motical
- 6 Gingerale grenedine
- 6 Neeg beer and Swiss Miss choosing
- Chempagne and gui powder



- Hazeinut kouot, crusted softmes, a
- 9 Beer and mirous caude 10 Meast, goat's mile and
- Southern Comfort
- Schrapps and nos write
 Beefeation's and Grizzly

If you were unable to come up with more than two or three names for these danks, by matching the recepts

- A Department De
- Berner mer un Contra
- C Briefships
- D Gine word
- E Manhatlah Project
- Programss
- G MUSCREW OWNER
- Can annel Room H
- 1 Charless Terration Director
- V 357 Marrien
- Titred Bloody Mary

9/C 30/H 11/V 15/1 9/C 9/L 11/V 15/1 VL09012 17 5/1 3/0

WHAT'LL IT BE, BOYS?

Cleate your own engined meeting indress and submit them in Competition 452 Our grand proce-winner will reaching 3100, mee ruhmersap will back receive \$250, AB Indaksis will also get a cosy of my back. The Empower Mho Are Mre Bible and Othe Strange Facts and Cleases Strange Facts and Cleases

Enter as often as you well, tot auto melly mail be mailed separated on theme by potantard (or an theme by potantard) and a theme by potantard and the theme by potantary and the parately Broadway New York, WY 442 Danke, and before the potantary be received by March 161, 161, and become the potantary ensy will be advance in the near will be advance in the near will be advance in the potantary and the padgets december as when advances and argumbly and the padgets december as when an advance in the december as when an advance in the second s

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LAST WORD

OIL CHECK Looking for help in multicolored swirls of Quaker State and Valvoline

Repeater page, 7% Air Air movie Villow Repet Evide State Complete Guide to New Age Health', is full of Instiga for governos, heaters guide, and other pureyoss of adm minipas. One such thm. Roothminipas. One such thm. Roothen Reingampoot. Inc. advertises with the alogon. "Out of your Noand into another".

According to The Hermanic Nellow Pages the New App has anrived as all source of established enterprises, ranging from ferms to tectories The Good Time Watch Company for example, here changed to motio tree "Stay of Time to The Here Nore"

Receiving my own copy of the yolaw pages I mestorely operad the book, whinted mysoff pround to get dizzy, covered my entrial and publicated my right india tinger down on the page My tinger landdu upon a small at third read. "Belatows in the Cutas—Sylve D Pace will need your metar of dra-

Holen Mickense hee a 'te Mustang convertike that reactionly holds it's power aboving fluid at over her driveway. prigs: Curous I picked up the phone. The Gutter Garu, as sho is known by har clients, grapious ly agreed to meet with rhis home. Sylvia, who appeared to be

bytwai, who appeared to be anound forth/way, greeeled me in a be dyaid bekeri and Belicenbacks, smooped with our anound the edges. As we sail by the pool and ano shring cooklars, the toplaned the overthic bears for the rearbow that sppears in spots of meter of on shroes aber it min-

To the same principle with merbows in the site," Skyla, said "Light refraction and reflection The oll barries on hims when Upph responses down and fit the clarans band. An they bend, they reveal of thereit optimistic and them Devy named for make of task, where my interpretation owner of "hereitand for make of task, where my interpretation owner of the set of the set task, where my interpretation owner of the set of the set task, where the set of the set task. The set of the set of the task and the set of the set of the task and the set of the set of the task and the set of the set of the task and the set of the set of the set of the task and the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the set of the set of the set of the task and the set of the task and the set of the task and the set of the task and the set of the se

For \$359.95, Sylves corres to your home and reads the oil spots in your guiter, You need not be present, but Sylves must have your exact, address, as you wouldn't wort your neighbor a regiding of counts.

Each date gate is how part reaching. Pan one is holdits and novelia the state of your health inloading your galibaider kidneys, and ensuess, as well an your spinlades, and financial future. Part box shows the sound list of your out, including the direction. Color (19) Then againsticated for \$20,000 mission of \$30, days, which ever corres finst.

Por those lucky cleants whose of spots are on their dreewyrys, and not in the guiter, Sythia prover in an additional complimentary reading on the condition of the drivewary (Sythia's bottler in taxe it turns out, happens to topic driveware).

¹¹ saw my het of readow on the mean streets of Newark, Syves todaws, "Wass too an old Packad with a real boot of leak" As a small hold. Syves was poor and spent a lot of time on the sevets. After reamed street of hours at the large to and sawn for hours at the of nantowers in the guitter," found my sentow in the guitter, "we avait."

That convinced me to give it as try and I handed Sylvia my Viai cerd. "We can't need to wait for rain," she said as she poured her soleth and water on the of spot my certaid left in her dreeway

She pondered the glossy slick for a moment. Thus she told me that my glove comparitment door needed adjusting and that I would live a long and happy lile, but that I should writch the institu round Ambient.

Returning to the patto, she popped another jumice shring into her mouth and said. "Gubber towe a bad repulsion. But look where my outpade contemplication get me. Who says of and water dent mat?

She went on to brag thirt at some of the most chic particle from Bal An 20 Makku, Carmel to Psmo Boach Petalums to Camp Peneleten, people are exceledly discussing their latest motor of carbox readmas.

Sylva now offers group rates tor such gatherings although you're advised not to participate f you carne in a ronted imp your reading may be confused with that offers regression der

And the left location of your to the end of the outputy bytes and a reger of the outputy bytes and a reger of campary have been neggraning a thread-tree deal. Be on the locator to a write with write a physical cause sweeps across the lacery automotive of goot write output of the the location of the lacery automotive of goot write output of the DO