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By Gregg India in a By Linda Marsa Books A martin tra reaction caudabooks Earth An experiment in plobal dismocracy. Wings 94 titiciel Intelligence --By Gerron Nobbe Continue







Response to Omnik Project Opon Book has been so phisnomanal, we ve sepanded our recessful into a new investigative section Cover ant by One Monettematers & Andhulk, Inc. (Mddisonal oradis, page 89.)

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> Antimatter 104 Games

Carrelval Diablo By Pat Cadigan See the bug-eating worsar/ Feel fre leap from your mouth!

45 Omni's Project Open Book

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FIRST WORD

SHIFTING REALITIES:

"If you find this world bad, you should see some of the others"

By Philip K. Dick

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An odd appet of these rais, advandravy data that puzzles advandravy data that puzzles advandravy down is by hist entropy of a spearaid or beer born-borever is in that new class pass over nio being-the norelets says to himail. But of course Wey clott I realise that yakis ago? But note the ward feature is not here were the best come annexes bording new comever, all the time is to the comever, all the time is to the He cld not invest it or over find it, in a winy redistrong, it locad from And—and that is a lattle hightening to contemplate—ho loss net invested it, but on the contexty it invested are it as as if the doe orceaded with the adjustment power I that this is why we decover a sizetting prevention.

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as answerse and workman as God But the ans de oppressive the thestic notion that God created, whereas I am saying perhaps God areated noting but manely a And we spend our hype when him or har of it, wondering parstartly when he or she or it can be found.

I of some the second se

Supplementing sensus conservpletion with charm and humo; the access begins a delightful exegos of time, space, Bod adly and charb hum his Shifting Realities of Philip K Dick Selected Liberry and Philipschetal Writings, edited and with an in Instluction by Learnence Subre (Partheon Books).



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COMMUNICATIONS

READERS' WRITES

Living in lava tubes, saving the American inventor and driving the aliens away with immaturity

Otroy Bridge is to Die Fox

I had no idea what measure awared the in your fiction story. [Dans," he ten and send simple postero also. The story was abaciutely outstandion. I have nover read a story or a novel that deal with the loce of animals as the centrel theme in such a powerki why When I finished the story the only thing I music think of ways Wow This was one of the best stones you've evol published Thank you far a fint-quality magazine and the opportunity to read

Particla A. Batteon

I sat wanted to tell you that your Amerfound it's frequently updated, has many different types of services and

Dearflow, M

History (Sprt of) Repeats Itent

I very much enjoyed the article after/ leving in lava tubes on the moon. It gents a very cracteral and locared new Thousands of yeers ago our angestors first loand in others before mouths out them lan't crono that in the future, in all crubability we may do availly the mone Out way automation a ball preunknown, may yeary and dependent upon

It's soft line to say your micromove or and calact The "Y.Size" acticity to the Da cumber ages was interesting, but I who risonarchited there were no place souncy and Hoadland articles were also eve-openers, Steve Nadis is a very good writer Keen up the oppy write

intenting a Batter America

With reference to Representative Dave neurship and incensity is intolerable should be meeting our web standards tais Bohmbacher Ante to proport LLS

dent I can also see why the govern wanno if UFOs were in the mouthwestallow anything to be left both out? Survey our military and toratology of that would have been no match for barros able to bridge the distances of scace triale there in 1947, I would not fault them for sesuing swaw if ther first con-

Juris Breikes Junis Breckss

Out convertigen to say but on time to write? Call #9001 285-5483. Yau com mente sul be recorded and may appear for the call is 95 cents nor minute Marmatt be are 18 or older. Touch too taloment, 505 South Beauty Driver Suite 977, Rearry His, CA 90212

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ELECTRONIC UNIVERSE

NET-SURF'S UP:

All-in-one packages make it easier to hit the Internet

By Gregg Keizer

must have fouched a raw never in the collective mouth of Orivi readons last fail when I devided two consecutive "Clootonic Universite" columns to the internet and what fait is to go suffil first the land of parameters offil and the land of parameters offil find the land of parameters of the voted make the X-Rise provid i got a brief mail

If fim reading you right, you're convinciaid the internet is cool You're probably even willing to spend the time and money to get connected But many of you are asieng the same question "Just how do i get on the internet?"

You need a compare, a moder, and a phone line, handware the information and an analysis was the commercial online services in that's may you have incores to Anoma Online and Computered both of you denotifications that have a service and computered that and the service of the information of the service the service of the service read needs on the service source read needs and and and read needs on the service source read needs on the service source in the service source service source service source source service service the service service the service serv

Pather than settle for what the online services give you now they all promise expanded inter-



SUPERHICHWAY ACCESS



nkt access in 1996), you're better off making a personal connecfon Three different paths—abch with its own potholes and smooth solds—cain take you fixes.

The first is The Papeline (call 212-267-3636 or send E-mail to asto@pipeline.com). Ete closent City-based provider has created the mark net of internet polyante anyone who signs up for an acthe Met and is earn based Click via fito (life tratedar nentored) ron subscribe in any remain with a dick The Presidence antiheory in ying stall be a resident for your Liblets you loo in the New York true where you can dial a local number you have to ney an ad-In Sprintfiel On two of the \$15 to \$35 per month charges that The quickly add up to a big bill

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Any of these three rouses in the laternet will have you chaing up in less time then it takes to read an issue of Ornet When you get there, drop me a line at phatemilitani com and let me isnow how it worl DO

Whether yes have a PG, Mac, to evan an Antess, software is available that makes onemethy is the informations. Those running Wiedows PCs will find the most charces.

VIRTUAL REALITIES

A SYSOP'S WORK IS NEVER DONE Cleaning out cyberclosets is a thankless job

By Tom Dworetzky

was at Land Ohis: the slaves south of the service process ing plant when in walks Flash, the system operator. The syspodouble latte, bottled water and turns santhing mone a with control.

induce obtailed and and in chall as Viex, lar God's sake.

"Ward to talk about it?" I ask "I'm a coood ear "

"I know you make scratch from white takes out of achool Just change my name," she

Finals but this court have chees of town were flaming, and one was going out of RAM-the to do

/ov to find a clace to perteke forever, just so much shattened bage collector to pick up, maddrass, and recycle as mulatile

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yours came this dark sharmoving form with a serve made of ormal utilitray point. First viewthor The two old exteriorms who herself as the support and inguined & there was any space on helped her jack onto the net a

"Too many people want too much of my time," Flash said and threads no one cares should make space in the sector ASAP the whole thing is going down Lofe see what which and " And with this. Flust brought up the usage map of the unlike Errors of over the were churning with interaction Flash now reased was den and low. She started closing down to into available memory. "It's hear for how long now? Ten maybe twenty flops? That's a long trout

asked the forms

"You two out me a brook." ased Flash, mitigung lopoff. "H you pupit class to look each ethor up herefore the addimenses of your

They heard met look-

Third exactly streat land, what

"Make room, no manhoor" she replied "Shi I can I say

Rhilling in my chest I spotled Ch compo out the ripor headers mind into har segters and she was recorded PC

MEDICINE

SHOPTALK IN CYBERSPACE: Virtual laboratories encourage collaboration and exchange

By Linda Marsa

When the BicMCO biminute of Biccene & Boards into any the set the set of the state of the set the state — source into any the set the state — source into any the set the state — source into any the set of the set of the state of the set the state — source into any the source with the cycle and ascharge ideas in private with the center cost nethring to constant and similar in the the scenario secting these these mere set first is lowed.

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tual' scientilic laboratory on the internet by harrossing the manactive capabilities of computer games software

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Gussion Gusman, co founder of the BoNDO and a graduite student at the Wecomain Insttitute in this exercise fashion, startistic span a MOO are day alter drive the source of the source alter drive the technology could be adapted for use in selectific collaborations. In spite of public before the contrary selecperception to the contrary selections who speed much of their time housened listed off noisegupt, gattimg over the pitzen or going to meakings where they on lapaciting an insight that will move their work forward. The movementerin mode possible by this of bDDa add another dimension on this accommunication. "Loging well and an other work of them to its decrease of the based on a this occer weather that the labelance."

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Even to Pavel Curtie and drife PRC relations and buy working on the hard parentition of MOD—Jupper. The new porghill intractions to even the drift of post and the second second second and buy part has work at users inguinge by transmitting value and audio recording live. "It's live going to a conference and there are scientists in the world live of second second second live and science and live of second second second live and science and live of second second second ways to buy their balance around the chard table to confinue?

Now that's really food for thought DO

BOOKS

REFERENCING THE NET: A common-sense guide to guidebooks

By Chris Porter



In order to surt through cykerspace, one must first bree a board, or in this cose, a brok, internet enformene waterable resources if you bloe the firms and choose your manable start

an integral resource.

One special feature of the internet is that meet of the documents that he user might need are be found in venous test onthe Furthermous, within meet individual functions, a screenband help exciton is available to guide the user Theoremically and other user could learn all he or after world even need to know thom the essource on the internet But most of us will not take the time to retrieve and print out all of these helpful documents so we buy backs. Most of the poiss about the internet can be plisted into one of three rather plisted into one of three rather plinted categories, introductory guides, tangeted guides, and

For more spoceladed instructions and environment and instructions and environment and instructions and environment and and and large programs, accentration and data programs, accentration and data programs, accentration and data programs, accentration and data provide and accentration and data provide and accentration data provide and accentration and data provide and accentration and accentration and accentration and accentration and accentration and theory Flague (New Rules Publishing, 1998). Rel detections and manufacture and accentration and theory flagues (New Rules Publishing, 1998), Rel detections and manufacture and the surger and accentration accentrat to new versions, so the specific type is less a permanent reference than a snapshot assimination of one area

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EARTH

THINK GLOBALLY, ACT GLOBALLY: Playing the World Game can lead to real solutions

By Steve Nadis

Imagine the leaders of the world converge to strategies about peope instead of war. until a to take the converge to converge to take the converge to convergence of the convergence parts in the take the second of the parts in the 190%, hence to convergence the another Fuller about the U.S. Fuller proposed that the fuller proposed that fuller fuller

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Global Photal's more searfreedby, presenting data in a highly accessible forme. It comliants more than 350 maps of continents, regions, and counlies and has show than 500 stiltes and has show than 500 stiltes and has show that 500 stiltes and has show that 500 stilltes and has show that 500 stilltes and has show that 500 stilltes and that show that show that show the shark---the member of papers who were born or alload pagin, the





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To learn more about the World Game, contact the World Game Institute, 3215 Pace St., Philadelphila, Pennsylvaria 19104, by phone at (215) 387-0230, or by E-mail at xtm0000288duvm ocs chowladu DO

Game softwee boasts a have collection of crucial waridwide stalistics and prejections, including these or the spread of

MIND

VIRTUAL THERAPY

A little bit of electronic vertigo may cure the acrophobe

By Stove Nadis

A biolectory, Balph has really Officient and the set of the her howel landcage, ine location himself on top of a lab building, which heppendic to be he generent fear 1 could neve taken of the heteries to be her generent fear 1 could neve taken of the heteries to be could be her and take whet heppendic the set of the heteries to be could be the could have taken to the adget the building on the occur down, forced himself to cope with the

give experence carried ow heiping him consuler he to of heights. To Lamson, it neychologiet and therapin the next step was obrouted decided to see it the serve technique would wo for others.

He contacted a VII comtanty, Driveron Incorporated of Redwood Cay, Cartones, Which agreed to design a writed environment enabling attractivos writerers to contront their terms haad-on in the acro-lead scenaro, virback collection accessor, virback, collection accessor, virback, collection accessor, virbalika, They wirk brottes a natice prink their appears to ereveal school and linky reach a suppersisc head painting apparing

This environment contramity contrading and to the ability of terms of realized to the ability permittanter, the San Reliefed HWO where his partoese. Acroptotess conclusion the VH our standing up and, at times, there logs indolated Cocasannialy times, grew dicay, reaching for sometimp to gransp onto Yet they plexed bravity shead. Overall, the experiment–possibly time at chinesia andy using UH—wese a stimetica ability and the time. witual therapy session, 91 percent of the subjects were able to attain new teptins, such as walking across the Colden Gate Bridge. Three mosts late 91 percent of the subjects achieved the goal asit by Lameon accention to 15 stores in a class elevents.

Problem are poresteric, irrafonal fears that can restrict people's lives for docades, causing them to go to great lengths to avoid the things they lear most After her five W source). Man-



ante Descalzo of San Patrel, combol a steplazator to clean the guiters. Previously, she of bean unable to get beyond the second rate. Since then, alres willed around her root, noden a forra willeal and without the sum of of Kouth Tam. The highest peek in the Bay Area. "It avery one did writal therapy," we prodicts, "In about five years to one would be dired of heights".

Why does it work? Because the virtual environment seems "real and unreal." Lamson thinks. You would writediately incee the is a comparison protected on wronnont, but you awarery remonstraint, but you awarery retrain the comparison of the test need on these people. The secnelgy offers a test before rain the assessment of the sitrate refront and work intracign herein fears.¹ The approach involves the lowering of the sitrate reheart name and blood provision measurements (immunication).

> thubusly during the VR exourseore)," explains Lamson, who plane to apon offer virtual thatapies for claustrophotes and apprahobia

> Testine Durit of Division testingholden Trust und the testingholden Trust und the restriction of the testing testing or savelses for popular array of other testing testing

rect), in a way no aki inbrary can metra' The chalenges the idea that writual therapy regist trast the symptoms make that the underlying synchromy. Some theories mentals in these folds, have deep-easied problems, but our short appoints they can get out the problems puty against it, it have gets to solve these applies to solve the solution applies to solve the solution applies that may related the interfertion and a solution to solve these applies that may related the interfertion and an applies the solution applies that the solution to solve these applies and the three posteriors of the solution to solve the solution.

may not nood preferenced therapy in overceens conditient like arrephalto. With VR, they can work on their feam directly is a way as talk therany can sudeh.

WINGS

SOME ASSEMBLY REQUIRED: This model plane seats two and is designed for mach 1.4

By Robert Mark

Lised to be the only way to get not be cooker of a superservic pit most he contain to her miffary or got a job flying the Carsorder. If Jum Bede is supcosful the peccess will get a biester the secons will get a methical companie cutif the resembles a scaled down version of the T6 Eagle

> At 2.410 pounds empty weight, the BO-10 is analisi than the typical

plete with engine and radies. This is comparable to the cost of many general-system around, and a fraction of the price of the brain indiffers of taking.

Betwe you dig for your choolbook there is a caled. The BDto, becrease in the expansion anomatic category, is kit-built. Purk down your cash, and with its flow wooks an IS-wheeler pulse on those of your house with 30 ontois containing series 5,000 mdividual parts, many produced by advoortheation that supply in

Detry parts to Reeg Avcrist Choster India Anacuntation Brode and Corporators (by the swatch eavily though the use of relatively simple hand bots, house the assortives of bots, house harmonic through the standard KAA confiduation process." Bede eavy the control of the same size (onetrol eaving the size of the size work of the same size (onetrol eaving the size of the size (bots) the size of the size of

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The BD F0 is also expanded of amounties in fact, Herbe says, My with nay just en incursioged to a p4ct, and the Bield demonsimition p4k we also to tak her filocoph a simple alience not. See tower if if coloring p1ds who we flown the IBC 10 pitotype incuble actions, Jehn Weisht and Chill Robertson, as well as correcian, Jenn X entrelling. OuternI EPA regulations pernet crist available from supersocial lights over the United States hecause of peetine note politices cause of peetine note politices (and the second states) and the Briddo between the notes between pert of the BD To is so arrail at 07 pounds-perianglime from over pristure (a matatus of notes between the states) and the between the states of notes between the states of the between the states of the states of the states between the states of the states of the states between the states of the states of the states of the states between the states of the states of the states of the states between the states of the states between the states of the state

Alte coprivantly, tuit sensitive arcraft manufactures are alway boal of sonce of um Reads s clarins. And Paul Poperations the sense of the sense board of the Departmental Airontif Aelocator asso of the RD-O, "Ta very well designed but the poet must beam new to aslay openate the sensitif within its onpublism before har or the clinits into the occept."

Never a man easily influenced by alteration, there a flava the from of probability builties who the national states and the states of the the national with a comparison based with Neuron. Neverall company will assist owners in builting and teams these the company will assist owners in builting and teams the states of the auroral the constitution for a 160,750 FeV regulatore requint the content is obtained on the auroral the constitution process to quality is can an expermented excell. Bede reports to d the fault to the content states of the auroral the states of the states of the states of the fault to the states of the state of the states of the fault to the states of the states of the states of the state to the states of the state of the states of the states of the state to the states of the states of the states of the states of the state to the states of the states

But dan't plan on assembling a BD-10 as quickly as the model atplianes you may have built as a kid, Phebe, who standed constructing his BD-10 in Cotober 1993, believes he'd put approxmethy 5,050 men-hours into the project believe the plane flew in October 1994, DD

The 88-10 is built frees o bit, but it's certably no bey. This jet rooneuvers like a fighter place and might even be able to berab the sound burtler.

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This only cardination necessilary to by a 85-10 six protop pilet 6 locenso with an instrumenting Block poplane. The workshop could interportation that a nonportisismost picto could by early it contains no complexities that a long socument by subleand mission. The BD-10 is even bong socuments by a furcher of being protometric as a poolbong protometric as a poolbong that \$455,000, com-

ARTIFICIAL INTELLIGENCE

NEURAL BAT-NETWORKS: Understanding bat sonar

By Steve Nadis

Inst, a few facts about bots. They are not block contacts provide numers to the contact, They are file only memmits that can by (Friedg source) actually globs / And verpro basis actually globs / And verpro loss actually basis actually basis at the Hanved University Bet Lab woold the lo set the record staget?

Psychologist Gyntha Mossi head of the Iab, has suched the oreatures for abross a decade, focusing on their highly evolved gather of benchessable, or serve Bits obtain detailed wows of her survairings by emitting unher survairings by emitting unher survairing and analyzing the exhols that come back

The hard part for Mose and others in the field has been ex-



bats carl exfact all this in formation from reflected sound. Some answers may finally come

Thinky come puter system designed by this Deric a psystem designed by this Deric a psystem designed by this Derivative with a Harvard Dour developed an articlas and hapetity likemistic the design g parceptial design and Harvard psiddoctors follow and Harvard psidte strategies and the system through a

The neural network, which consists of 245 processors work, mg in partial, has been based or routine bal-take using space echoes to skewnly lurgest in the ar and to decoming the speed at which an object is moving. To column the rais input for these experiments, a louisignation that parametris, accurate to partial input method bacterists bal routing. which were reflected of a vonandy of objects for earlief offerenangles. The process were period, which was reflected, and obviously and and obviouslike to object form in the first approximate to object which are an any set of the which the target was a provind or a cubie. In the second case, the historik was aeleded to distriment the precision ded which a propalite was surring, again on the base of unament exclusion.

Notal interview, unke cooalisational computers are not programmad in advances. They are seen than a second supervised are contractly make a prior take takes and second supervised are contractly make and second operator time. By one ends, the operator time. By one ends, the intervised and distinguish the operator time. By one ends, the operator to all the second second to be a second second the second second second to the second second to be the second second to be the seco

The port was not anyly to able that a second related to the perform these tasks that also to perform these tasks that also to perform these tasks that also to performance the formation contained in the echose. One throug for example, heads that the echo store, does not any encours for example, heads that the echo store, does not any encours for example, and the the echo store, and encours the signal is sense at the bourching off an object. However, when the information was an effective and index to the outpoon and incounting the bourching and index the store the outpoon and incounting the source and index the sense of the outpoon and incounting the source and index the sense of the outpoon and incounting the source and the source of the source and incounting the source and incounting the source and the source of the source and incounting the source and the source of the source and incounting the source of the source and incounting the source of the source and incounting the source of the source and the source of the source of the source and the source of the s sound—bit network failed to discommance backweish the recoshapses it performed wei, on the disher tend, where the input comsealed of a normal echo beelen down mich foroparity character. This proves that it's pescale to down toor incourse, the mich of the second to dentify ethics and the second to dentify ethics and the second to the second of the emilial sound. There expenses i can't set when the second down, don't can set the forms.

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A neural network system could how many packad apprications, robotics being an obvout coardels. Some robots already used to seep them how humping into objects. Expaped with neural networks, robots could warder around an environment dearbarg the location, shape.

Such neural networks might be used to guide automotus whicks or to do terrory quality control. Sociarly surveillance systems capitale distinguishing mig betwain a dog and an ininuder represent another big topportunity. This is a new tool, and the possibilities are practtoply unfinded "Door says. "The mail limbs are those of imagination, not of borninger,"Conton, not of borninger, "Con-

12. August ... Henic nucles watched with envy for the wall, And as the small of rich cope silled the an it havened (conventued improv Freeyon exchanging ideas. Intelligent perspectives. ad at even matter Laondered . thrules in. conversation, like this 10 exception re we so montally satura normi Va. a. munuber ma wait in me I the mell av, who cares? Another and a lack at my Ald radio mob setter. And remindle one place and dialory still exists TALK OF THE NATION" FROM NATIONAL PUBLIC RADIO

A CALL-IN PROGRAM WHERE INTELLIGENT DISCUSSIONS BEGIN.

SPACE

WHY WAIT FOR NASA?

Jamie Floyd thinks his space station will beat NASA's into orbit

By Mark Fischetti

I mine 4 joyd always metado la colo do la analysi metado la colo do la colo do la colo do la colo do la colo na esta la colo do la colo do posto na categoria do la colo do gras have analysis do la colo do gras have analysis do la colo do gras have analysis do la colo do gras do las do gras do las do las

Floyd knew he'd never gat anywhere pitching his spece station idea to U.S. space companies accustomed to fat government contracts so he began cating Russen firms. They lead the



space station ranging similar in size in the Resitents' Salyer (above) in orbit by take 1967. notion. Floyed gethered three partners—a lewyer and two aerotopice engineers—to form General Space Corporation in Houston. They then convenced seven engineers from the Apole days to task once, environ bit could

At age 35, Floyt enct a wideynd draamer. He is a levelhaaded panner who may put be neve encycle hof to know what he can t do. He they the the several blink oblars that have been spent on a decade of Apha recequents, and the total estimated cost, are outsignous. Tavo and why fly this thing for \$50 blink when it beseasily for can of all?" to gain

The Russian perceptice com-

persenting the consistent rule consistent experience building, stations like Alv. The Russian generates how are rule rules an space a fractien of what the Soviet Union cone did. In August 1963, Physi vasted three pinne quotes They wate those prove quotes They wate to discuss prove quotes They wate to dispuss prove to transmission. They away, that half now making monthly tops on terminer cui before an specification of the terminer cui before to the terminer cui before to the terminer cui before an specifica-

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New that Plog their issid entmatility, find can adolt outstores for manned and unmanned expannessis on the attacks, which ossid begin orbitring by late 1997. Using candidates include pharmatichabores include pharmatichabores and lite society. Physic does and section by comparison of the best and section by the pharmal to take attacks by the society of the and section by the society of the boot of the section society of the tomor commitments, ruther that

General Space intends to price its services well below NASA's. "They provided two weeks of data from a recent abilition dollars," Floyd points out. We could do the same for one tenth tha cost "

NAM, rest could become a customer period (agravitation valid) reases the agency to buy valid) reases the agency to buy rest of the second second second second rest of the second second second rest of the second second second valid), rest of the second second valid second second second valid second second second rest (second second second rest (second second second rest), rest (second rest), rest), rest (second rest), rest), rest (second rest), rest), rest), rest, rest

General Space is not the first commonly to setting such as an arbiblious version A decade age intradio area version. A decade age intradio taxes evolution a such as a the archito-counter Bur The as the archito-counter Bur The own finality," way also Alana, pressent and other executes of the submit and other executes of the submit and other executes of the counter and other executes of the results, and the submit and the releases counter. "I am our the Floatant count for a resolution of a space station for a resolution of a space station for a resolution of the investigation of the station of the submit and the station of the station of the submit and the station of the station of the submit as a station of the station of the submit as a station of the station of the submit as a station of the station of the submit as a station of the station of

That's the key for Floyd and his company signing those much-resceld customers. Still, to remains undersed. And what does his set as the chances for the four-man General Space Corporation? Hey? Royd quipe, "Hewsett-Packerd started in a gauge '00

DIGS

NATIVE CULTURE:

A new discovery rewrites the history of Alaska's Aluting Eskirnos

By George Nobbe

him Russen for teach Grigon I totanoven and the Cuil of Assaults in 1754 and lanced at Three Basins Bay on Kodal Island, he was greeted by a skeptical band of Pachas Externos called Autos when he and he reve considered incoless saviges line these they had encountred on eather voyages

A dia us falake's Abowen island has revenited surveislog danais about the celler of the young Aktin mon (bpl. and a mask to colicorrood bari (bollom), hat dathog b no Uhanait b no Uhanait b no Uhanait to the Auditars Bieldloova Ruasian-Amerian compary and Its successors had no intraits in the autural history of the Kockes Archaelege and, in fact, did their best to collected is alcopather. What they works we the facts on to worked in the New Works we the facts on autovalent of Englands Hasten Bay Company

But more than 200 years later archiveologall Pick Knocht, werking noarby on windswept Aroprok listend, hos unparthed estaondinary evidence that could rownie the fistory of the Pacine Esismoci in the archipelago Artifacts excewated at the ancient Aulog pac-

Itement of Numiliak, where Knecht began digang three years ago, fave connected the archeeologist mice the roots of the current networks extend in an exchange of the second with the besits as rOot years. Today's Autin, are the descendarists of the people who years. The second the balance of power in southwas a cultural connector "Neet was a cultural connector" Neet culture was a potencie of an the Autoculture was a potencie of an the Auto, a second fait the Autoculture was a potencie of an the culture or custops who estible the he Russans arrived

Knecht theorees that the huminks address that the summer vilage where periags an mary as 300 netwee—once known as Kontags—fixed at a complex, well developed outhor with a districtive social structure that separated nich from poor 14 bases his before on elems recorered from a vel set, so called because unchronic vel







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age developed a compare, issueline's topicity based on mannerhurfing and hitring, conteny to tattiticational antibioty of the initial sector of the sector of the presumer to occessive compared theory pose. But iterating was never necessary in the Acadias antibioty on divide antibioty in the sector theory pose. But iterating was never necessary in the Acadias antibioty of the sector of the heavy pose. But iterating was never necessary in the Acadias antibioty of the sector of the heavy pose and the number of the heavy and the number of the wided with the number of the sector of the sector setting responses.

"These woren't Stone Age people stang around eging slugs from under rocks," Knecht says, "We have grossity underestmated them. They spent the weters indoors teating, gambling, and dancing. They hed a lot of time for article reconsisten."

Based on the size of the shutchreat uncovered at Aunitals. Knicht infers wast differences between rich and poor in the old settlement, which are on a built at the reason and of Aligotak to land. He decided to exclose the there after apolitry the moundhav alitage betting the moundhav alitage betting the moundhav alitage betting the moundtion the air during a light over the island bolowing the titlet likes whate of audit.

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Densid W Clark outport Vision achieves y for the Camcian Museum of Divizion in the Hull Quebec, believes that Knachta extimate of the amputy of the Alasing culture may even be so conservative. 'It mg/u even be mark older their 7000 years,' proposes Clark, a viseten of numerous dras in the Kodak inse. "Perhaps SCCC or even 9000 years old 'SO

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CONTINUUM

DEADWARE

In search of America's computer burial grounds. Plus, sawing mouth-to-mouth resuscitation, and explaining sick statues

Our Partie Shack THS 40 Model Laws II with not hounot wight, but 16 withouthout memory was comething of a manner in the hystery, but the goiny was short lived. With each new year, tabler learner mothels pushed aur Instell, its under the short was Today the machine alls on a shall, its caushie compromised by the forces of extrapy ins station tog deep tetmine and come

This year will mark the retrement of acres 79 million personal computers, but where do those old computers go when they de? My investigation revealed some interest-

ing dues about how an up-to-the-minute society larges. The Prior Stop: The classifieds contain counterer

The wave party into capacity of common threads based machines find post-time and the common threads based machines find post-time and the time. Interfaced days were provided in the common threads compares are used parts prior to make the common term of based and parts and parts in the common term of the parts and used parts and the common term of the parts and used parts and the common term were throads and the maket the colorisation of the softward parts and the colorisation and the theory of the parts of bases to counting such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or an event of the other of bases to contrain such as Merco or and the other of bases to contrain such as Merco or and the second or the other of bases to contrain such as Merco or and the other other

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The Recyclerg Ber: Computers aren't the most ecoinensity form of landhi Nokel-cobalt found in daik drives. copper in transformers, sitver, gold, saladium, and plazrum in carout boarda, and codimium, mercury and level in battaries make a novolosy portpourni Companies such



as working theorem to be a break business removing environ mentally hazardous pents and mentally hazardous pents and mentally hazardous pents and including processed 3.7 miltion chips in the first quarter of fiscal 1964 Last year's revnouver 540 million

The Retro-Inters Take a 286 mayles correcting older life a quass-IBM-compatible Tandy Them and 30 MHz Pantour motherbeard with 32 bit PCI local bas video (31 400) 26 dot ptab. 17min flastocen color marking (31 000) 16 meg PAM mod us (3700) quasi-speed CD-ROM once with 180 milliosend annex tems (2450)

28.500 bit per second fewmolem (2020) 420 MB, 12 millisecond, enhanced IDE hard drive (5220), and a mouse gal autoprophed by BII Gates What do you have (a) the hotest allow hot not since the HAL 9000, (b) a paved un-simp to the infoldinh. (c) a poved onneme to perinceal banksupport could?

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The Dual Bin Most computers norming retrievant will mean a loss noble end Like our old TKS 60, they will be shumed asket like applications in the boots re-retrievant They will join other absolate hulles—TVE eight-Prack play are, toasters—el clores and whos, rever again to feel the surge of electrons that brought than to humming IM-



CONTINUUM



The one-has fast-holong longue may be forned not to better tasks to only but to holo in before maching its calls

TONGUE GUIDANCE

Through the millerinia, scientists have grappled with the desinting problem of why enalises have forked tongues, offering explanations that range from the subtime to the nutricious.

Anstole thought it was to great them's theotic pleabare from severals, their guatatory sensation long as it were doubled." And the severtheeth-central please an naturatet Hodierra opined their their folded tongues were "for packing the drit exit of their noise."

Want theopens Antibole was close to the huth, says University of Connection I theoretidges Kurt Schwirk, whose hypothesis is that the chivided longue delector usual to failwe the chivided longue of both party and other index it is application system rather than a trade organ "It's transpect is a delivery

system for pared chemo-

sensors in the shout called the vomeronabal organs." Schwank roptians. "These or gate communicate with the oral cavity through two try operating in the celete."

As the insee globs through to environment, I committee fields as largue to committee fields as largue up of the restancing of adher the crass attributes the solaring as obtaining odor indexcases which is largue assesses as 40 shows in splan in the part. What the creative is doing as obtaining odor indexcases which is largue tensors as 40 shows in splan neuroly had points along a charance grade and full indexcase is submetary hargues and the index the submitter hargues and the sub-

The mechanism is one that analias inherited from lizarda, says Schweric adding that from the evolutionary point of wew, "trailwa are just vary modified lizards."

-George Nobbe

BANG BACTERIA

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New Existence Ind weather Norve events and United Sector

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CRIB DEATH CLUES

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aginta, says onb death folseec in allernic reaction might be applicable," said Pipche We lend to thick of edants as small aclude The occurs in an infart here he remains meters in is established Something in sames somehow hopenon an mappropriate response " one try to decover what apend

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CONTINUUM

SICK STATUES

The Wexus de Milo and other subjects are to be envied. apparently Aphylograph a follow covered with unike to many other ancient ared with authoritically

twe offering to the god of healing. Asciepus, n ings ' says Regge, 'usually cleased a healthy cured body part A pathological rep-

PNK FLAMINGOS IN THE WED STATE, OWE THER COLORATION TO THER COLORFUL DET OF CAROTENOD RCH AIGAE, WHICH STAINS THER FEATHERS PINK. IN CAPITVITY, ZOO DIETS MENTED FOODSTUFFS TO MAINTAIN THE COLOR

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CANOLA FILL-UP

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CONTINUUM

BIODIVERSITY FOR SALE

Konny Asuzbal is hoping that Americas will buy the cancept of backwentig incluments hat guns incluments hat guns had a mean hat guns had a series hat guns backs of campa hat is backs of campa hat back of campa hat had a non-the had a finan. The ideal be call in Autobar 1964 hosis Bendo of Change The Jean of Asubaka

Many constant, Harvard bologet E. O. Wilson Included—regent the loss of tool versity as one of the top environmental problems in the world. Plants and animals, according to Ausubel, are disappear. In the world the release and the world the release and the world the release and the world at the release. or 2700 appoint a prain 70 a bity ind frive an hour main heard about the soluess bit date better ben of topolal rem breach. Benty apara ago there were afford as "topolal rem breach. Date turn the wide", is a sain hearty again ago there were own to it of present of works not production. Onthey have and, by topolacent to it of present of works not production. Onthey have and, by topcent of the American bod cent of the American bod cent on the American bod cent on the American bod topolarity have and a 100 procent of the American bod Wide an environment

The namowing load base makes our supples inoreasingly witherable to deease, like that which wiped out instead and inter court blight which struck the court blight which struck the courtheatern United States in 1020 " Nature







Falp miscus dusplaying spectra bracks

FOUR PERCENT OF A UGHT BULK'S ENERGY OUT PUT IS UGHT; THE REST IS GIVEN OFF AS HEAT

learned to avoid the conspicuously colored pink, birds The queery widlife ecologist quickly pited notes in his purnal so that "11 clied, at least others would know why"

cloaen't favor combetizebon," Ausubel notes. Divorsty, on the other hand, is "the fabric of tife. If a pathogen comes along, some plants will be killed off, but others will service."

With this pancipular string the beens of Clavery arms to the food system CF outres the Stock sector in the construction of the company's colorosa the contrast the system of the sector sector space of the sector sector sector space of the sector

of the parson is less certain

PIGEONS OF A POISONOUS FEATHER

The first Rypen of the stand Ocan way still be accord body thanks to the solution of the solution of the solution that is extended rate of that is the solution of the solution first, solution of the solution first, solution of the solution first, solution of the solution from the solution of the solution from the solution of the solution from the solution from the solution of the so being hurted to extinction like the docto and the other pigeon species formerly found on the island "

The source of the brids took properties was which revealed to Tampia which was task techny as hat which he had observed the properties that and onder to determine if they preferred a perfocular (boor "pot mitches") has a going on the the source "bear" "particular to an of "particular to an "bear" "be hut was to and."

As he became it, Temple's thoughts tacket Partisps the birds somehow accumulate this detary toom in their own bookes without it effect, only to posion any with als them "Humes. Many chemically distracted process was occurwant (or remote) productorinstantine and the second second second impatchemistry and the second second second second metals have constrained in a sectar the company of the second second warming agnitals. Simplifies and second second second second second second sectar the company of the second second warming agnitals. Simplifies and second metals and second second second metals and second second second metals are known to be left watakis are known to be left watakis are known to be left.



Forget about the safe distance afforded by the soft reality of cyberspace. This show is real and really outrageous.

ARTICLE IBY PAT CADIGAN THE IMPALER THE BUG EATER THE HUMAN BLOCK-HEAD. THE BED OF NAILS. THE IRON-TONGUE MAN. PROTOGRAPHS BY TOM ZINBEROTY *******





SCOTT McCLELLAND

"When I was fourteen years old, my grandfather stood in front of me and took a big long surgical needle and drove it into his head through his nose. Alter he took it ont, he handed it to me and said, Now you try 10."

I have spent at least 13 of the last 40 hours in a rented van, chwing hom Calbours in a rented van, chwing hom Calgary, Alberta hrough the Casacilian Rockes to Abdotstrott, Brinte Course tos, and any rentry finals as if it has acquired a heaver-then-usual layer of gril. So its not ico surprising that I th right in hot at the Katz Calo, whose relative meeting has been cusied or a file of the root due to me root.

On the other sale of the room another carryists displays a hollow-eyed lady enjoying—if that is the word—a.maal of al clevel

perk woms from the bowl of some un fortunatils brain pain "Bug Esser," satulas the legend above the image "Wend," the canvas further assures. "Alive Alive"—in case there was any clouts

Exercise, I notice the area when been south once they not up on the problem south most help not up on the problem south most help not up on all spring. In organ the stores in the other and the could which case the crowd the a difference of the stores of the other south Stores Note the stores of the other south Stores Note that stores the problem Stores the stores of the other south Stores Note that the problem Stores of the other south Stores Note that the problem Stores of the other stores of the could the top as a core too all disclosed on the other stores and the core south stores of the disclosed on the other of the stores of the other of the stores of the stores of the could the other of the stores of the disclosed on the other stores of the other other other stores of the other other other stores of the other other others.

This is Bors, load manager for the current tour of Canada's only professional performing seleshow, Canwell Dable, or so the ringmaster, Scott McCelland, sold the staff of the dub where Canwell Dablo performed that right. If the staff regarded this somewhat skaptecally before the show what they witnessed during the performance put them through enough changes that alterward, Bons seemed among the more nerminal assess of the rept.

Regulars frequent this place. If a that lend of jork, on by three guys tabl young enough to be in this business because they the ther register. They we taid some different deversions hinco, ber Opmpics even over prety well Asfar as whistismment goes, the ben'd they book play a lot of covers. People like what they know, and they to here to chome But not the events.

"Lades and gentlemen, what you see here tonight could change your lives ... forever." Under the colored lights the regmester's eyes are dark holes in his too pale face. "Welcome to Carrival Depolo".

The audience doesn't seem sure how to react is the guy puting them on? After all, they're children of their time—high technology, high expostitions. The special effects that used to also move-marking training months to

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Spectacular Limited Edition Sculpture Showcased in a crystal-clear dome.

A MOST FOR STAP TREE COLLECTORS Indicate sould are her bainty re-creates the logendary saga affine STARSHIP ENTERPHERE?" For the first fina

The result broass strately in biology describedly portuged, ket overgetebell-weight and and an ensult in the dated and an ensultthe Contention of Issign of the U.S.S. ExtENTINGS — the scraptured base, as any effected by Parawatent Peetines and according and appetly prediction and result. Then hand-pointed and includently predicted particles and an ensult. Then hand-pointed and includently analyzed and the set.

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And then there is long, genergia at them from non-patient time banghat the inght it one dealert inverse like banghat simmarian dyapes, so what is it supposed to ba-besides compatible to bacularitation reverse. but a dealert metric locause the enth is surch of special effects on a movie or a comcular generated picture or an antitranse or cansulation of earch historical figure, nor is it happening on the other 4 - cana. side of the workd and coming to them via subsitio. Tak is right before thus way eyes, this emails no computer budging, no instart reality in somo. If put-way empt is put put put to the all to unrenamed reality it had better loo trenting. Remarkable: Educations must way exacutinary if it was life, it had before the boost them life.

And that is precessly why the idlebine a back in two, Sout McChillard told me werker that day. The command dath that he and the other members of the triuge have done that bat to adhere to a the encounter two equations adhere to a the encounter the equation created in the club between on an amothan adhere to all the equation created in the club between even the other than even the even the set by the trium—maybe even because of them.

But ... sidestrug? It's an uncepected patapositor, this stray, hightech information rich era we live in now, and this old style amentaneous remnacient of a simpler time, 3ddshow McGeland says, is an art torm made to even of a that our technology. There are several parts to a tradtional circus sideshow, as explained by McChaland, who should know-his grandishini Nendalar Paul Leventuk ownod Candolas largest loung camval adestrow and vasidentile trouge between 1900 and 1988. The Leventuk Motary come to real in Cancea. Sais Katatewan, and McDellende mether. Saras grew up working the concessions wormers. Internet span has included summers. Internet span has grandishined torials of life in the cammal.

The stock features of the comma are strengthe or eleptrates at the orous itself have at the final. How, which ordered is of human beliefs, and the fit stocy has human beliefs, and the stock of the stock of the stock of parks' which can be either similartion hearts of carbon the stock of optimizers and the stock of parks' which can be either similarhuman. Then there are the siderices parks' which can be either similar stock devices. Combinistics, and there are a sublicities that the samples of plang a musical instrument.

Finally there are the blow-ofts-flux sours like the Lady With No Head (just a lot of subes coming out of her nors), the Stake Woman, or the Gel-To-Garille Kason. Than was also the big blowoft upsate meent for weekeng only by off in an area meent for weekeng only by page is the and over The hermaphic data was the clinitia mend at making attendees egend a title more many that they attendy had and it was useally so good that people would durit mind-in fact, NGOeland atoy, it was actus the opposite. "People ist philegic that They could see such marvels for such attendees when the set of the work in such attendees to even."

Given that the every sight an encompresent mean scale acen always socky to associ down on any newsently werri-word the mean knd, the betterthan or so-called model that the energy as an encoved that to think how else to alwace the the mean scale that we are alwace to the mean scale that you comtract the scale term provided any development for alware to the scale term spokes or a former tootal ass/ any re Great Model Stateworf.

Tour the exhibits initiated of JoJo, the Dog-Rooid Boy we have Michael Jackson. The Fat Lady is more levely to have her own TV shoe state of tan her own test, while the Human Skeleton can be assess modeling designer obreas on a Pate survey

See the performances Barnum had the Swedeh Nghtingale Jenny Lind, we have Medonnis—or Manah or Barbra or whoever can draw the croad this week. No doubt about it, we are factoristed with our freaks, and if there are none handly to stare at, we are only too ready to turn samebody into one part so we can stare.

The basis was definitely not the sort of many poor all was beamed by another term and a sense in Systemy on pay parwer. It is necessarily and in-poor-beam you, shock you, score you a they, poolally a lifet is contrained and they can beam you, shock you, score you a they, poolally official you, and ther taugh hearth by all your associations with no apologies and they are also that measure it has consolitories, when noticely wants to denot ancoord relate.

In emicipation of severing the Carrina's Deales performance at the Kart Cub, Dates ben wondering exactly kitations, in the work problem are parameter than work induced they's have from the work induced bary's they for our executive work of the Carton and the Ca

The Lady Julianna plucks an earlyworm from the bowl on the table in frontgers for the audience so they can see that it is very much sive and squareormersements.





THE OMNI OPEN BOOK FIELD INVESTIGATOR'S GUIDE



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The Need for a Guide On November 9, 1097, at of it-the Soviets launched Sputnik An hour later, on the fiat plans of the Texas penuppertransable town of Levelencountered something that traveling north and west on At shock four miss out of Leveland, I pow a big famo, was foldning " The while and velice torpado-ahaped object. Saucedo went on to trucks motor stop and the headlights fail. Traveling M hour, he extraved, the object generated to much heat Over the next two hours.

calls, all of them from inda pendent witnesses report-For ristance at 12:05 a.m.

OPEN BOOK FIELD INVESTIGATORS GUIDE PART ONE ARTICLE BY DENNIS STACY A GUIDE FOR THE SERIOUS UEO INVESTI-GATOR SEEKING TO UNDERSTAND

AND EXPLAIN ONE OF THE GREAT MYSTERIES OF THIS CENTURY

a thuserold lives listh treatmen said he was divion his cer nine miles east statidently "starlast culture out like it was out of cas then went out allogather after the car rolled to a stop bood but could find rothing obviously wrong with the Beturning to the down's seat, he now noticed an the boltom sitting asidde the highway in front of him. 125 feet long and made of an alterative restored with no wable details or markings Enghtened, he start Shorty, the UFO rose "almost straight up," disapnearing in a solt instant " He tred the school ecters. home, although he did not report the incident to cute"-until the following alternoon, after his parents Netrowcle, the Lovelland sightings gamered almost the new Scoret satellite. eventually loroing the Air Ereraly Present Blue Book

where no out of the Foreign Technology Dreagn, was the official Air Force agency LFOs its mmediate pradewith the Ar Force, write Protect Sign and Protect Grudge) According to the J Alen Hunek of Northwestons University then Project subset, the Levelland masstigation, conducted by a member of the 1008th Ar Intelligence Service Squedron (AISS) was cursory at classic book. The LNO Experience (Henry Regnery Hunek states, "I was told that the Blue Book investcetters consisted of the appearance of one map in on November 5: he made two auto excursions during According to Terridie Uni-Jacobs author of acober classic volume. The UFO Controversy in America Biogramation, 1975), "the officer failed to interview nine of the offeen wroesses and sho empression append that lightning had been in in mark on percentation & distance." Dollars, Mr. 701 the site. (Protect Blue Book, Force and Protect Blue first under the autoines of Book dimately style to the the Air Technical Intelli- impldents to "setabler obecance Center or ATIC, and nomenon of Ian' electrical

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FOR the to not always as near Weiserton Onterto the witness often must stall be must happened to them naw as it sawms. For one story went the man hed ob- drawn out. Fow of those millority of UFO softmaxare into near a true. As he and invocunter other all will volstreichtforward fear of rid- id noticed us, and non-

UED months from screet/s then and a half seconds ! has been my estimate over thed tailed to report a perty may be rejustant to broach and was well awave of his the past 20 years ' Hynek ment observation out of the subject of a UFO signirough that for every LEO, antibactagement as well to no unless down out And the wolled by his otherdes report made, there were at sustain his cell image as the second, when you do ask ed Evidence for the comes, femal to recent he soften contributes in you-way, monthly transfer of the from the Gallup Poll, the las being of an unusual family members and closquantly learned of that were according to Hysek, "rather not woorled to the Air Force. Then admit the possibility figure of cases perform when the provide There has always been a that it was a cenumely new

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ing questions about UFOs ndicule II would seem that their setzes the best most mence the reduct has had, which plowing hals of light the more trained and spenie - respectable UFO witness - moreover, the higher his or had perplayed both Alled

Many respondents only given the notic groups uno for the San Astonio reinforced Hytek's foers stances the richt individual. Express-News about unusual ricicule or embarrassment, calos. For this to happen, material, or at least signifihe nearly and the description the adheest provider must cardly offerent material set the fact that his own suffi- have confidence in his other in Ry October (the second confidence as Physics Today had becuth the previous case, you must of ocurae as including at least two hypers after search has perdentals Even with such con- except for "Rudy"-if any-In the summer of 1990. Educes memour the UEO, they strategy or arguing back

My reasons for not askthing, the overwhelming served a bell of light hover- embarraseed by a close ing Rudy were obvious He trucht helpsy at a local never mounted. The meson several of his relatives unless the information un- community colorage and has Given the objective factor in a commerci existibution cule Hyrek lamented this lessly appelerating at a very the UED human in search of on the north ade of town the medicities. Physical display the datapeter the basic rules First, streads forestare policities Yoday in which he solented, over the horizon in about to learn about someones, some 10.000 historical bac-Yet another astronomer and Even a linkong friend, him no sevenal processors toward mysticism, astroiopopult, I assumed this would serious reservation when I also know that he had been deally an his docrates, ask- World War II and the heyday of the so-called "too-

On the estimately manager possibility that he might have accountered a loofrahter, I sedenci Rusty ri snything strange had ever hapinto diver in the star. "No. year after the fact. "It was nothing ever did," he said perfectly circular and sust apparted, was melabely that ber, I wire drying back from least individual segments. UFO story Rudy had a see and the central portion, the for who lived in Austin, 75 area inside the flats or on Interstate Highway 35. Its cars sets as the whole San Antonio alone tine one

miles from his own home The sky was overnast with risene as t did. Eventually d a cettro of about a thousand entered the clouds and dethough them were other to see if it would reappear care and leader in both the . When if chick't he not in her of the four-lane hotway the way home " he seed. "I upper porton of his wind- and the headine will read shield, but continued driv- "UFO Mystery Solwid!" Putto look up through the curved reported Rudy's URD in cera fiving sauper liev into view almost pertainly nothing traveling slowly southward. Rudy hanself would ever

A short defence away. CONFIDENCE IN YOU niven and was just south initiated a share Liture and of New Bosurfals, about 20 started back up the north side of the highway, slowly Pudy first became aware kept thinking. Well, that's it, hand late he was in He or collee conversation unless pulled off onto the shoul- directly confronted der-the only car to do so- Almost as remerkable as

able for a better year The object was under PULLS TO OVERCOM reach the evenest prohably 800 or 900 feet over-ING THE head "I can see it clear as FOR THE LIEO INVESTIGATOR-HEST TO The outer rim constatued of a After a brief pause, though, broad flange divided into LEARN ABOUT SOME-ONES UTO Ausin ," and promptly An antenno hung down from EXPERIENCE, IT'S BEST SECOND, ASK THOSE PEOPLE WHO HAVE THE MOST



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approach is a total stranger. we suggest you do so with you had some credenmast-to boost your credibilty Otherwise, you should ler of the Nineteou we call sometimo drusuel and then knowing your connection to the case may be more will-

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approach optiential witness- published by Lucius Farish es, especially strangers, Route 1, Box 220 Plumerwith theopera purpletion where willing Arkaneses 72127 Each and extratementrial ships 20-page issue consists of arrety 'I understand the fairfund web of correspond according a bit out of the light polyides Caracterized ordnery live teen polled- English newspaper dip ing some information on this plings as well as articles to you as well." (This will be gauge papers covered in greater data/ in Numerous annual national an unconting charter on and accord LEO conferniervirwing witnesses) ences also provide a rich

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With a grant from the press placence from the whar the modern UFO etc. began, tollowing the restriof nine alwary crascart-June 24, 1947. her 1957 study done by investigator Ted Bloecher Washengton to Merrie

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while with the reav-defunct unpublished dispoyery. But the truth of the matter some of the moonts wind National Investigations Com- 2,000 to 3,000 letters written is, not all reports are creat- made when pilot-hossers restaury Assail Planvington invites compared to the water and equal for restance way using a local and/or in the Reacher's 'Report on the of an April 1952 attole about may want to delve into the Inwer of Stormwile decided UFO Wave of 1947' was. UFOs by Bob Gima pub- past but fiel the withesses to fiv in boomerand formsessentially a reliantion and listed in I demandrone Bare to a paver portions takes tion. Someone making a applying of press clippings. Book was averaged at the died, and if there is little few phone pairs formulation demonstrating that Arrold time," says Aldrich, and documentation there may could not have learned watchardy signs in his expe- then director Edward Ruppett not be much you can do A about the hoax as eaply-if renoe in fact LIFOs sens anosently didn't pare UFO reported by your front, at all-as the local stressbeing seen and reported in about the lefters to invincitio is college student while gators on the scene who large numbers up and follow them up They were drunk and etering at the ultimately clid. The takedown the country from sust staffed rite a file which state is not as compoling no frame message is that if But Addrich's origining microfilm." The majority of arass individuals-such as makers more sense to puestigation devices many the letters, size Aldrich, a policientar, an associative investigate cases in Navfurther "Good as Bloecher's consist of individual theo- professor, and a teacher- ark or Asbury Park than in sturbuses "must altered." I use or environments for the while store scher If the sec- Santa Barbara.

wast Loompide For easth- UEO phenomenon. "but and UEO has kit any physcie he dich't include any about 20 percent were per i cal evidence-from a burnt. Starting a Rie rewspapers from Montens sonal case reports the par- area of land to some bigs. The chapter has given you re trom many providers in linet detros back to 1913 on the artoot's radiit enough meternal to get

Montana Avisenendent Saucers Westergion DC," cases you with to rwest- a few folders out and start Ascend Adrich discovered overtually found their way gate you will also find it is collecting. We dilike you to that a local furry of UFO into the file, in solo, the lab batter to pursue those clos- spend the next few weeks exhibits was and celling time potentia that while an advance indeed a those and interaction was even and understay, even as the Arrold mayhave option the ough UFO investigation is earls open Speak to friends national fact spurred by headlines and generated time-intensive II often re- and relatives. Read the Avoid's anthron was tat- the time the LEO phenomic curres multiple maneeres local paper Scour he intering in other areas of the lenon riself was groupply with multiple extrements You net Arvanie something of country. Aldrich also dis secund much earlier it also may need to visit the ste of interest enters your teld of charged that LEGs contain process that can index that the opport at various itrial various it is to be it had it onto a und to be reported in armed with nothing more of the day and year some- disk, drick it down and put Canada in great numbers. then a macrofilm reader, can times with specialists in it in your drawer "In fact" he onles, "the still make a difference in our law. What's more the input Canadam energi easi even eventual understanding of of those well verted in local you may have a case-a more promunded in terms, what may wall be one of habits history geography, completely original cause. of monitoria decily than this persurys most mean- and atmospheric pteriors, never before investigated what was happening in the derstood mysteries

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fortunately someone put on a UPO reported by tree sep. you live in New Jersev #.

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Anyone hoping no investigales UFOs musit, of counter, loop frack of research that has gone before. The best ductrices are those cleaners of UFO flatteure that set the story of this controversket held, other in the works of the researchers who know it best

LPO baoks very visibly in quality and reliability from sober: reflective studies such as Hyrek's Expenence, to the seti promoting personal annotation typled by the early contactee movement of the 1950s.

Any fist of the beat UFO books is highly s-bipotve Here however, are 11 UFO classice recommended for any UFO investigator seeking the right interence tools

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the phenomenon as one-of sobridemestral ofiger

2. The LFO Contexenty in America by David Methad Liacoba (Indexe) (Index

3.7% LPD Dipaganeously Dipaganeously Dir J. J. Alian Hynnis (Henry Regrey: Company, 1975) For 32 param, until its observe in the company of the second base of the company of the compa

4 Anistory of a Pheromenon by Jacques Valles (Henry Regnery Campoly Chesps, 1885) A colleague of Hynels, Isalin investigation of the Isalin most original and polific brivens, sithough polific brivens, sithough soma of his meat resert work has taken out of texer with the havingne IEO. crowd In Anatomy, however, and again in Chailenge to Science The UFO Engma, (Henry Regnay, 1965) co-suthored with wife James, Valee is in the phenomenological form

5 Peacorri biAlagona Fonni Faldbara to Fayag Jaucena by Jacquet Meleo Henry Regnery Campany, Dincaga (1989) Cine al the web and the second second second web and the second second second LFO percentance and second second learning second seco

6. Nei LAD Exception peaks Volumes 1 and 2, by Jaccard Cark (Densignaphca, Denva, 1950, 1950) Carks anyreasus and near one LAD survey is more up to date and more comprehensive than preceding UFO encyclopadas A third solarme, Mgh Shangoneos, is expected to be analiable this year.

7. Somethic Study of Understeel/Pring Chipots edited by Daniel S Gilmoor (Berram Books, New York, 1966). The complete lated his cretowanal Usventy of Obstrack Boulder, study directed by physider contract to the Air Forron Trigit and tackous in parts, but etil am inclepensable reference book.

8 Obsening UFOs by

Rohard F Halvas (Nakiter-Hal, Droago, 1960) A tomer perceptual psychologat with NABAs Artice Research Center, Harres Tocues here on perception, particularly the pieculartes of our visual field and series of time, as isolated to the observation of amorrpions series (Derroman-

9 Proper Risk Asok, estimat by Brad Sharper Bistammelikola New Yok, 1976) A wildly miscallaneous grab-bag of odds and ends drawn moolly from official (and biolassifed) An Florce Propert Bis-Book Hos micilarig a lab Book Hos micilarig a lab Book Hos micilarig a lab of broas cases classified unknowh Constrant much original source mathrait land nowhere ealer

10 7be Interrupted Josmay by John G. Fuller (Del, New York, 1987) The book that Inst introduced the UPG absolution phinomeron to the public, this volume, that published in 1988, exernine The case of Berty and Berney Hu, who expensioned a UFO close encounter which netable of in neerly two hours on alleged managing time.

11 Missing Time by Build Hopkins (Richard Marek Publishens, New York 1991) Haylons and abstract anti- webly recognated as the leading physicist diffus generaingmening theory of UPO abdictors. A plonair in UPO abdictors. A plonair in UPO abdictors in the reminaversel within BPO.



Investigator Device Starry, has marin three seconds vigits to Mexico in pursuit four years must recently in Sectomber 1994 (Sincy's Tom Deuley formerly assigned to the National Security Agency and the and Ernque Ceverta, for-

Central Event The alloced crash and subsequent synopped port Mexican

Time December 6, 1950

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Remittations' Aude Ford wee unconventional exclain New Marrie compting In late June or early July maligned MJ-12 docu FL ÍNDIO ARTICLE DID AN ALIEN

these documents as a clever heres or ingenious

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PROJECT OPENBOOK UPDATE

telligence office of the 520th greation that a second UEO Bomb Group of the Eighth might have created and Field, was fortunate enough moovery team employed at In cain preservant of a disc. Prevent host among anonyone of the local nanchera home of Hollwood produc-

moon, however, Eighth Air contained a rangle roll of order Demand Romer Barray and Jahre from Whom House called a press conference aged, the film revealed Teres to approace that posted to be a too-second what was make econemic percet Dated Newsminer was an orthogy weather 18 1952 the second deal balloon. During the inter- internet to be a UFO bradvenna yeers, many UFO ing paper prepared by the advocates pushed an extra- outgoing. Trumon, admitteterrestrial interpretation of tratery for the recently electthe cristh And Insty, on ed Dwohl David Least-Bernweiter 8, 1004 to co. Insum It described the consponse to a Ganaral aton of the Macone-12 Accounting Office induity group composed of 12 Nohinto Roswell launched by lavel military and intelligence New Menco Bacutocen, officials along with redian Congressmen Sleve Schiff, scientiste, to oversee fro Rosert Moral, a log secret of euro referred to the Bosdawrend to monitor Scratt more the report referred to reacings bornb leads

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CRASH TO FARTH ON 6.1950 ALONG THE BETWEEN TEXAS AND AND IF SO, DID A SECRET AT ROSWELL?

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hangs Trans and Mauro was worth looking into " could be conferred, then at least some of the context of unconventional applanetion for firmanti an wall as LFOlogente of an oncoing El Indio-Guernero orienti that the documents are in Research was use o weather beloon or some Prog equally mundare

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Fach Evidence for a Copie your of Defense from Schuster 1991) An assess- upon the particular day in Vicinia to FBE director J her 3 1950

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and co-author of the Corona the state, and strategy and the former function of the participation of the participation of the former of inch

M1.12 papers upon fast assessment monor than drawn, cold any unstrong him there, rights, but onthat by main made papers 1987. Tom tonge of plans, amounced Secretary of State Deen Douloy began a revery of an air airst effective as of Acheson and others, that the case One tantaloing, 1000 hours According to book noted that on the chie came from nacies/ White. The CovAC Air same day-poen. Decem- placed the crisish near El physicist Stanton Friedman. Defense Controllar notified Lev 6 1950-Achieton was attes of Cash at Compa. The Headmantern USAF informed that 'h rathorid. What I andrea did the a back stored Postwell. Command Post flux at 1030 promptoy was about to author of the MJ-12 papers Friedman, without a hours a number of unidenti- be declared' because know or suspect that we the LEO companie in his ded biorat was approach. "there is fiven over Alasia support of the MA-12 support, and the northeast area of at the present moment a paper both real and bog a weighted the European of the United States and that formation of Rutation places, we exclude had information Act to process there was no reason to heading southeast." The managed considerably To a previously classified com- balleve the second were British propostodor to the leave more we would have municipal from a held poerst intendity" By 1040 hours, 40 United States, Clament to Iravel to El Indio and remed Austhach directories arouth at an althude of Athen, was visiting at the Guarana a particip rat search in Behmand \$2,000 feet was overland time and Athenry was by radar in the vicinity of improvided to notify him to. First On-Bide investigation Edger Hoover, deald Dation - Limitstone, Marine Winkle - take whatever measures - March 1960) El Indio overadded that President Tra- are proper for his safety." In: Tooles the Rio Genrafe seps-According to Auerbach, man had been notified and the lassocian and Thomas, raining Tasas from Meeton of the Counter Intelligence interceptors scrambled By version, the threat encode and lies some till miles. Corps, his office had been 1104 hours, the season rated when the nooming southwest of Sen Antonia. paked to say aturned to was apparently defuned. UPOs were reportedly iden- The tearany for our that wait "any data on fixing White inited bat "the ong- titled as focks of press the memoradiest would be and it appears that the circa-unidertified throng Marry Tom Deulay and I telephoned, immediately, light as originally derofied, objects over Mone in one intended to access out the In Ar Erers Intellements and reports light" The date case Alasia in the other--- lay of the land, intervetive a Traman even mentioned and poverimment went into may have had knowledge index of parameters in the parameters in another of December 6 of parameter hall centers. stead of 6-the concer not published unit 1979 At 1980 the precise data given old events, and establish dance, if ther's what is was, the time, he need in his in the purportedly sources contracts for among thorough dary 'It know like World ML12 papers for a farring followup mestication biar

athest document found in comme and we will The Indocens a long transformy light borders and actually the historical Automa by more browners after that the annuarities?" Devilations a board rear, the adde robury and sub- As it burts put, whether research Master or math ber of the Maryland-Denerti sequent High Alert to an tracked through Alacka or the before Fund for UEO Basearch atmospheric debutterion. Meres the E Indo crisish We were both disap-Friedman found yet a does represent a long tra- ported and encouraged by book with Fredman. Pre- third account of the modern jectory indeed. Moreover our initial forey into creditedstands percently Show of the base device deter the backaged adapted a deposition in much condentes," the sevenese of the work of the sevenese of the seven

t in clear that the Ar Force . Inv instating courteets also The second cases of every Way II is here I have not- UEO posts in the word'y of or. If we mastered the intedence was another decise- but we must most whatover. El Indio and Guerrero 'after caces of presand interna-

But why had MJ-12 did not? As we pondered the

contractual in Morch 1250. Decode the decisions: was not mark ambitrue contacting possible event

PROJECT OPEN BOOK UPDATE

couldn't remember any sig- up in touch with former referent every in the late, major Formie Causes who 1949-early 1950 time forme up turn clinected up to Posor onash

after the end of the war," incident, it will be inim."

there ance 1947, but also, of oney her, sparking dark

the next morning, Like FL toward the over and FL 2.0001 some 35 miles back from the sky," crashing on enough to secure the ser-americance might have been local memory in the way in the meanime, Cavarni

and Quere Keeting, permy space of Bis Meldonado, who is involved, but Pones and he . Pones had successfed Iwed in Fillindin same 1999 Guerram from Green Rway a year after its establishment. "Wyommo, and would prove Although they welcomed us invaluable on our tirst wait, been as mundarie as air- viewed everyone who might Scuttern hasphaley, they Maldocado was able to put knews." Fores arrowered clerit and we had not will "No one told us anything." that might have been asso- endo Rores, a retred school-Flores simply seid that "it resembling a fiving sauger and apporting to Gevena. the town's acknowledged There was still a rate theorem 'I service locas. The name of the largingments transportage in Fage Pass, anything about such an and the location where the Second Journey Out

about that. The plote used in step, Serior Fores mitted fore lasero, we sated if anyof Guermen's picels or main We also taked to the E source a velocime resolve part Hereby was adament. that the original randh had Index numbered and according to an analytical and according to an activity and according to a second t Courtow who had level our linderneath a full head oneor You are the first " hold on an alegard LEO, thick disease Seated in a neonie nemeri hut none, obtained, nemusaring to plane, or meleonie grash simple wooden cher in his was home. We spent the search than occupants He Unfortunately, the widow of living room. Poles answered remainder of the day dr- had also contacted two the trank opened founder, our questions portrols and upon becampels bestiered, individuals who while they had died two weeks before to the point Not only old be the nanch-Device's band- had no scowledges of any remember such an noidert, written notes at the time fineball or other crash in the We exact the part is he had actually subgested refer to them as "stone area of inner of a "may Factor Pass, 16 miles upper- it. Sportly alter sents by weathcostist -- n search of tery hole on the reach that er, and crossed over into had been working on his other potential evolutiness- had appeared sometime in Messoo at Peokas Negras family's land north of town Indio, Guerrero (population Indio, when "a ball of fire fail moved away down the rowr and south of the advance track and deeper we were update to for subsection. At one point its sister cits had seen bet- santeng a grass fire. A day, turn up any additional eve- the hole had been larger school Specific would con-thoost arrived from Picture Rosey' account if a fixing which had to be winched tase, rather than clarify, any . Negras blocked of the area, disc, had, created, near, out. We chose to return in to conduct we specify a by back " We asked hun if 1960 is certainly back") but been havested, backtranslator We were fortunate. American soldiers, conte- manuated itself into the taking our search

hauted away Could It have had by no means inter-When we asked how he. Meldonatin and Coupres pould be sure of the date. accred to asset us further by continuing to ask gueseveryone knew about it." The assume ecoses to the Barrich old centernan even gave us of the Greeks.

Treball' had impacted-E. (November 1995). In the Departor dal Granne Alter festavel of Maamber 1990 Strucht of some if slow Booth of the Greeks) Be- we esturated to Measure hav-Buzved by Borest ac- the new owners, who wish es only to learn that many the late 1940s or early had long since died or 1990s as portons of the land were first cleered of

as long as he could rememtion to the alleged grash more than 40 years before hot failling work Upphia, wertible mediance that the to welk because of his m-

four children whose parents acting by outstretched had owned the land in arms watering up and down December 1950, Both ware the weed-grown sows, all of little help, alas since, for naught except a voleo. they/d been yourger then of the event taken by our

quide, a young man with his little foolish in fact, with the rench and would be lots I couldn't help but hum the field As with exemption Dead state. "What a loop, eise we taked to on this strange tro if's been?" We occasion, he had no idea, had started out with a smonly that it had been them. Been searcer in what in all likelihood was a boous we had located but a scole then, as best we could eventness to an event of determine was that if for multipleaks unknown cellural the same immediate vicinity and yet been we were, site where Floras had told us ning up dust in a field on the An attempon spart tery hole of equally unknown

two events were connected We therited Maldonado

been cleared, the soft, loamy and Ceverra for their grain wonds and prosess weed we probebly wouldn't Coupled with the fighress of return unless there were con part of the large field ments on either rade of the looked pretty much like border Backin San Antonio. on however, word lasked late data in hopes some of out that we were looking for it might prove relevant. The a "UEO hole " and we show ML12, don ments, polde drew a growth of gurges we controued to hear surger locals, all of whom were of some UFD crash along At one stage we had some chains our targeted time

I COULDN'T HELP OLD GRATE-FUL DEAD SONG. non, Daverts arranged a Deutey and I were leaking a LONG, STRANGE TRIP WE STARTED OUT TO A AND NOW. ber its only direct connec- "government" document, HERE WE WERE, STIR-DUST IN A FIELO ON BANK OF THE RIO



near Rio Salarias, Mexico, on ally 7, 1948, some 130. miles south of Guarnaro. The photos were later demaccident victors the beed heving swollen and bubbled tomato Another unsubfor had a UED crashing in 1950 but 30 miles northwest of Cal Do on the Do. Grande a gradi 100 miles north of Guerrero. We mane common root, perhaps indicdate of otherwise. Another Loon Strange Trip. (September 1994) Last

frame. Unfortunately, these

waters were muchted by

case molying phylographs

of an alleged feed "allen"

year at the behest of Project a ford top to Quertern with the intention of leving the other as a lectmete UEO incident an example of other an-vet-undentited third category This time we recently taken an interest in John Yeles of Fort Worth, a PROJECT OPEN BOOK UPDATE

bootenant for the High Collogical Corporation Landrue had earlier weeker Sciences on his cave, and as for Nates, he brought his motion detector. We informed Meckonado d'ous trans brid Bootena, who by now had located a former nanch Acreman Jone Genze, who see the could take us straight to the meeting had

It took aerkin, but does alt-handly claimed does alt-handly claimed does alt-handly. The homester 1960 Handre costen the doe allowed has shall constant of the shall constant of the shall does any 20 bet the alt shall have the shall have the does and alt has been bold to care alt the shall bold to care alt the handly shall be alter the shall have the handly shall be alter the shall be alter the shall have the handly shall be alter the sha

Our own assessment of the shapton was that we wate looking at a natural serk-hole phenomenon, pocketly attributed in the person limitation underlying the Ris Drandecleposited att on which we shoul als we left in that we encountered several active wash-cuts alongede the dart road encoding the/teld, one of which could have availowed a compact car easily

Moreover after interwarming more hain 40 additional people on both sides of the bordor, we were unable to diracify connect the hole in the field with the finibial dearched by Floate Narweis we able to identify any additional withouses for the field of the traveal tank

Tim Desiry my how pit four twenty has and. "I trink we've ingreed ame or of investigator affact We risk the investigator affact We risk the book unual events and under stratistic powers who we be the best to high out. We mix elect with the section of the best to who it we have best with the bat they have. But us the bat they have. But big has smelling thange they community a closest in can initize 1 closest in can be costly."

Literative, and the average of investigation born but, While researchng the fladby of the small in precedil we are directable to entired hedrarea now leng in Fart Dakis Sprrgs Texas Neither had recounsing UPO almost information but flat flatbe lattice but flat flatbe. The texas aged up lattices but flat flatbe. The a upine care had the a upine care had the a upine care had the accent but flatbe. taken place in the area. The source he gave Lanchum was Wings Over the Mexican Border Ploneer Metary Avation in the Big Bend; by Kenneth Baster Regotable University of Texas Press 1064

Chulaway 16, 1944. Chulaway 16, 1944. Court Air Prant Estain soote prant latt on Busic soote prant latt on Busic soote prant latt on Busic lineary interact and Busic Interview Interact and Busic Interview Interact and Busic prantise Named and Busic Busic Another storage and Named And Busic Busic Named And Busic Named And Busic Named And Busic Busic Named And Busic Named And Busic Named And Busic Busic Named And Busic Named And Busic Named And Busic Busic Named And Busic Named And

Some sort of yort Mexican-American Initiary cooperation would almost assumely have been involved in the recovery of the bodies and any surveing wenchage arguebly hispative, the initialiabumacurate tradeley to bened secrecy. Headts within was unable to chitain a cause of death from the authorities and was only granted autrivoria bonefts after the Dregon legislature introduced abilit to that effect in Congresa

As for the ultimate cause of the crash. Regisdate conclusted, "the facts will probably never be known The mittary loops its secrets well."

Condusions Sadio and reasonable doubt whether near Guerrero in December 1950 We do know, through that an indeoutstay feel tempetral chu roct mpacted with awar 1944 Could this bake base the overt, witnessed by a of specific dates became tene? If so, its concentry able, depending on who outstand used obrand that the crush of the Cwi miltary antimal could have mean rise to all sorts. impossible to prove a reqstam_that a LEO stain) crath poor Guerrate Man inh in December 1950 from see into any well reads in the heustant or a hole in the graind DO





ARTICLE BY STEPHEN MILLS



Levi Yanemam separtian benaah iha gasay inga ol tia mabaa (gina hashad lodga), waran an asamtiya of the work's that leaders all patienty. The setting was an har uside Ro de James Markow and the set on the family set work of Contense of Indigenous nature taken set Peoples, where nake paoples togend to anourage work leaders to save the natural work from anivormental deaster.

Low was about to perform a hittle woodoe and answer trical proyees, if only the cheftans would issamand here there can call for here in the face of cultural astinction. Call only in rold running shorts (for deconams safe), flip-tope, and an arm band of shocking perk perrot teshines. Low cut

Can boal was yet to comeversing on the merculaus. Less entroned the but and gene banks began to and in outfural Greserve chants, stretching his stocky. the past? frame to appear opaint as be shifted ecost-like stress while beating his chest. His cherris bodly contribute. Aboutly awa Yanomami, a sooth-Levi's spritual visions, tell of brank parks ad ot ton mind than half an hour, Levs wailed, stomped, and writhed, occasionally returning to Davi for comfort and advice Lev/s physical incan-

tations reached nearhysteria, then subsided suddenly As he wandered

"We can speak for the earth because we have treated it well.

of manifolding, the entire hat and its occupants ross idealy as if on a custmen of an and hovered two test off the ground—for this observer, anyway.

No lodding. On yeah, you say, what was I on? Ar it seemed. Berie uncarry, and dowinght spooky. This had to be some incl of the mind, bas I could have sourch ... Stambling are I field to step two feel down onto the ground only comfounded my diabatal

Tritid leaders energial cochanging locang local well Western downers appeared auast and confused, all in a time 50m energian and an antitione 50m energian and an antiopcorter Bit may cannot warring to balance, and energians a targe was defent? It was of 1 bitned into an exists bits and low dires do the forecode of lower gher boles, as in attel travel. The gooral consists, was that travel. The gooral consists, was that the west definition. It reapone "

But what exactly had happened and just what exactly has had happened and the work? In the message to the rest of the work? In example, that only splittual message was simply that only splittual mercennes for the name was also be organizer Marcus Terens emerched. "We can speak for the oath because we have inserted is we'll.

Benerot thousang melas seen yorth of the squarks on Annotant environments peoples instructions and an annotant environment of leaders in the of instrugeneous peoples instructions and an annotant environment of the structure of the operation of the structure people will be the the operation of the structure people and the observations of the structure or structure sectores. If an annotant is a contrast in sectores with structure the structure the structure and the structure or structure sectores and the structure and the structure and the structure means of an annotant environment and the structure and the structure and the structure and the structure property and structure and the structure and the structure str

But scientific research is not enough









Performer Deard Menthenal man, Anarche

Headbart cuterar function is denoted the edge of the research, while advisededge of the concept problem is the period to the second problem is the second table as expression problem. I denot helevels that a particular indepress people and be damaged by our structure. These are examples where surrep people howe way good for them. But the says. "That me many other existing provide, indepress or not. That read econome support or it was provident or whole."

The struggle for outural survival bega many questions Who are indigenous peoples what are ther problems who are the players in their survival or demost and what are the wable alternatives to their extinctor?

The attempts may come from many pattern, including patients incompany, and scientific quart monophy to be investigation of the incompany of the investigation of the United Hallow, and positive signatures in the United Hallow, and positive signatures the United Hallow and positive the second ballow and the second hallow the second hallow and hallow and hallow and patients and faitness reinforced is sources when many to be hall to fait the second and these plotters is the second hallow and there are plants approach the second second hallow positive to hallow the second second positive to hallow the second second positive to the second the second hallowed to second the second hallowed to second second positive to the second second positive to second the second hallowed to second the second the second to second the second to second the second the second to second to second the second to second

From Hut Indexenser (previous page) in Africe is Aureal Index in Brand, indigenous peoples are lighting to save their outcoll identity, white attentiate hope to preserve penaltic tendence that will help incover the leaters of inlocation.

visions Of Our Future.

Storolongo, Es tre Infield, Media Picclas Popf Mitt sean is the most parative of excludences, space has been served forsighthe speciel progress and smort

Today the prioritizes and varians of spaceare replify becoming real first as we list interest applications for space in the action of alcologous, worth observation, sorrors arms ag, partities, resconversationhore and recen-

Where do set parlimetered Look for the amount of pipel RD through Dby an the CR Space Proceeding where the works that Sp art Decision on space will getter to docume Vision and Decision (and confirmed vision) were are being to the Weit Weit grant before and body.

The J th National Space Symposium at the sackt-hermon Browkinnan Histolain Calonello Sprtrage, Coloradol, Redevice your space today allot take advantage of spacial early registerable servings.

1-800-691-4000





MAP OF INDIGENOUS PEOPLES

1 Arosic, Inut (Eskimo) in Alacka, Careda, Greenland, and the former USSPL Aloct in Alacka

2 Europe: Saami in Norway Sweden, Finland and the formet USSR

3 Pacific Coast: Haids, Timgit, Kwskuit, Bella Coola, Taimsitsan, Notka

4 Central Canada Gree, Meti Chinescon Resident Dane

5. Eastern Canada, Irinu, Croo victuding James Bay Cree

 Garáda/United States border. Monao, tha Sk Neton Corlederaby, or Hauderlosaunee, comprising Mohswk, Oneida, Oriondaga, Cavua Sencos, Tuscaroa

7 Northwestern United States: Nez. Perce

8 Southwestern United States: Navajo Ut, Dina, Pueblo, including Hop, Kenis, Zun

9 Plains States Crow Cheyenne, Arapaho, Pawnee, Comanche, Oglala Sour Shoehong

10. Maxico, Mayan descendants-Lacarden Yucalec Actic descendanta-Huchol Tarahumara Nahua, Zapolec, also refucies

11. Guatamaia, Beliza, Maya,

neluding Dhol, Chu, Kekohi, Dysthe, Nicaragua Miskito, Bumu, Rame, El Salvador, Honduras Hitra Perla

12 Panama Kuna Guasmi

13 Highland Pani, Bidiwa, Eouador, Colombias: Highlends: Quechua Aymana 16 Acortina: Dhie Macuche

18 Anazarri baim, Baiker Turki, 18 Anazarri baim, Baiker Turki, Xavarita, Yanomam, Panakana, Koso Akron, Nambikwan, Kepoo Baim, Esuador, Bolina, Penu Colmita, Verscells Anazaban, Octoma, Verscells Anazaban, Sorten, Scoog Shut, Ducha, Gueno, Yamela, Monto, Pinster, Sorten, Scoog Shut, Ducha, Gueno, Yamela, Aporto Guran, Tobo Markov, Guyana, French Salna, Woman, Abawio

16 Sahara Sahel Tuareg, Fulari 17. Southern Sudiet: Dinka Nuar,

Shila. 18 Januaria Determinia Carriera Marriera Carriera da Carrie

(Bushmeri) 19 Kenya Tanzania Maasa

19 Kerya Lerzaria Maase 20 Ethiopia: Oromo, Somati, Tigraytin, Effician a) Zane Carestan, Della Janes, Jan Lang, Kang, Sansa, Gara, Jang, Kang, Sansa, Gara, Jan, Kang, Kang, Kang, Kang, Ang Kang, Kang,

Pacific Islanda: Kanak, Hawaran Tahnan Chamoro

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The Extraterrestrials







NÓTHING

I heard shufflers, # Trues being I said. "We were due "Is everything cikay?" Femily, with the trolling their speech by thing is clizy. How me Ten worred about the meking a twenty-minute asimption for Ohanarrived on U-matic that more no. I'd frought blues. Even conc. I still something technical hed has long? It's the "There unit are:

wike upset, or ill, or just had-assimp I knew looking aller his father orhaugted him, but I had never heard him as bad as this. through," I said. "Can I come sound? Twatt supposed We asked Nerv, sure by now that something was he entranced Stitue He wasn't reaking Intervine to me. I becart egaint "Lipicked up Nek's medicine Shall I medicine clinic from Richbone Place, not los in New Cross i had been collecting the prebetween calanas bottle. Ref. front, they wore existen quehable from experin

"Roburt, I soud shall I pop round with 12" "Lots of trouble," he ward

No truble st al," I sad, you're or my wey forms fil seo you h an hour." I put the phone down before he could frighten me any more than he already had, made sure the batte from the surgery, were in my bag, threa in Robert's welcoccurreden, and headed downstates,

drow tound the Ele

phont and Diastia up Camberwell Rood, Intiup Dog Karnal Hill up Dag Karnal Hill and into East Dutwich. Buil rather than tum up Melbourne Growe toward herms I haideat east, across the Rye, to Robert's Bat Robert and his failee

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Charana of the local cycleophenetic of Antimetry Chilego, Haustin In Russell, Shadan Jin Haussell, Shadan Jin Russell, Shadan Jin Haussell, Shadan Shadan Shadan Shadan Haussell, Shadan Shadan

If youro a disease argariam—a pont of view Ewaild likes to adopt your goal is to survey and produce more offspring than competing argan terms. One stratogy is to motioply as feat as you can itsized into heat, but there's the cath—it you make soo many oppies of averaged you do think offspring.



HOFOGRAPHS BY JESSE FROHMAN

at least ermobiliting, your host belore you can be spread. Changes in carcumstances, including human behavior cas shift a pethogen from mitchess to vitulence, or vice versa.

After a st much middle litera HN-1 Our best hope of menution We already change the write healtsay with

ON THE BUCCIIC ANVERST CAMPUS, WHERE INFOOMERED NINETEENTH CENTURY REDIRCK BUILDINGS FORM A FERFECT

QUADRANGLE, I WONDERED F TO WANDERED INTO A IMOCHURE DEPCTING COLLEGE LIFE IN NEW ENGLIND. AT FRST

GLANCE, EWALD LOOKS LIKE SOMEONE YOU MIGHT MEET AT THE WHEEL OF A FORSCHE OR HIRING WITH ALL THE ROHT

equipment through a redwood forest But after a few minutes I realized he would likely go without food or steep-let alone the right olothos--for days, to monitor a good explainment

When he grow up in the suburts of Direcop, his log calection overrain the house had no iddewed his bits into adultiod, with a bedging maps from the Directasty of Califorma at Irvine to e Ph.B. with above the loweshot of Walaningber. When he is not leaching or humingber when he is not leaching or humingber operand the foreign on the adhered operand services. The shares with his wife aid hos children.

But it levels appears to leve a charmed (6 he diso levels on instrate literal swith the shoor magnitude of AUSE geometric progression—etc) to martition of the protection types of other plaques in the making. It can't be oasy to be a Costendrich to thereest all the suffering that level should be one my introduction to the event (if wild printingents, if whose level come to see the world as a major designetuue place—audith "Hopother".

Onter What is a parasite?

Evoluti III depands on whom you talk to, but I define it as an organism living in or an another organism and causing haim to that arganism. What is harm? Probably the least on-biguous way of defining it is a negative offsec on the fitness of the host organism. Green is a virus a thus paratet?

Bandle Yanghi, saine Same Baugke robust handle yanghi ban theor of cells built with marking a century many biological behinded and the hard bas bankmed of adilli. Bhull all fear hard bas bankmed of adilli. Bhull all das Theor Bay Board vinates him cause disease and are mainter than cells and look cellse representations and politic manual and a politic marking the same write disease. They ammund a same write and based to the same set of a same the same write and the same representation of the same of the model. Bay, some an one horizon are model based based and based based to the model. Bay, some and the same model and based based based based based to the model. Bay, some and the same areas-cell bank concerting the same -but the based based based based based based based based to based based based based based based based based to based based based based based based based based to based based based based based based based based to based based based based based based based based based to based to based bas

Onesi Aren'i parastes an odd preoccupetion for an evolutionary biologist?

Ewald: They re pertainly something faw svo-



RECENTLY WRITTEN: Evolution of infectious

ON MEDICAL

And invadeated simulpois, We know how to control diphthenia, meanles whooping cough, Vie figured we had the loob—entiblotos vecomes, ecological approaches such as mosiguito control. But all theos sof sivotien exprised accent diffic

SMART VIRUS:

STUPID VIRUS:

PRIMATE CONCERN:

Due possibly the HV visual went transhumens to chimps If so weld better deep task of it in chimps because they change secual pertness hoquardy and if it evolves to increased wellong, it could wate out much of the chimps may apacitize Laborary belogiste vers exusting Since the decovery of genes about 100 years app most people writing about the avoidant of includus diseases were heat in contribute who aidn't understand evolution. They couched that arguments in taxes of bothhis to the specces rather fram difference and the passing on a different genes. And they concludes that cleanase always excluding that harms or hosts harms its long-term channes of hosts before.

Difficient version is exercise unammental of the second second second second second regift is an unamper second second second exercise second second second second distribution of the second second second and the second second second and the second second second the second second second the second second second the second second the second second second second the second se

By table to convolve the segment. The do why exact force any body part even by the or when exact forces and the segment of the segment produce and conversion in the segment produce and conversion in a generation may exact and an incomentation may exact and any segment to be provented on the read generation may an incomentation the read generation and the read generation is a decase or generation and a host read behavior.

The question is, when do you starp purpose in partial? You gue proce when his organism attains instang then hold irrotable, intermentation and the start of the the start of the start of

Orst: The insect just bites a sack parson and likes of to silved somebody else?

Ewald: Sure in fact, a person if with malaria say will be less likely to swat mosquites So disease organisme transmined from an immobilized infocted how-

"Desperate 32 Year Old Discovers Amazing Method For Creating Love, Luck, Money & Confidence"

Do Scat P Konner - Special Penner Writer

Direct, CO - Entrepresent Bath Directed that and r all, how more elr, then got to back legar and home la the process he decovered as assuing row suched for pering arothing he really wave with a fraction of the effect and a lot more expresent. He says he can done often to its the same

As ago 33 Schemidid tool is nfl. Gr no hu brought. He was refs. had a log incosts, newcires too horner and all the decirement two men's newsystems and all the decirement two ments tooling avery at hern and he definit know while These methanish, he load your about retrypting

trees non-selig to tota para area entryphing "Freeybage 1 toucher — work or promotal get screwed op" he table are His relationship with his political orded as a low-ost. He was herearing atomy his couldn't audiomaid why it was happening. He was angly and confusat

Desperate, he que has più to look far mersen. He read handrigh of books, consulted populars, chanade and searchagers the tread hypowen, modules, sound and light machanes. "Too mense 4, i tred is at cased occur's he sould but

usi to a susceptible one should evolve to high levels of harmfulness. And arthropod borne cleaseses, such as melaria and yellow lever, do bind to be honly vision!

Omst How do evolutionary principles apply to such clarifical disasses as choice and dwarflery?

Exast Does the intervent individual media to produce to finanzimi the deeard in produce to finanzimi the deeard in places with unnextsary Samabody participation of the code others and to be final, where on indext of how the state where of inseruption installed where of the population, installed whether offering decases organization second a state cally spatificant second to be the work point of inseruption between earlied of how the second between the second of the second between earlied of the second between the second between the second between earlied of the se

Where you justy a water system the wulkent atterns does not. Issuent the wulket atterns does not. Issuent the water around the startest purphing its water around 1900. When we finished at the exist of the Operating Vision the mid startes of the Operating Vision at the unit of the centary size the same mere was considered. The startism we had at the unit of the centary size the same to an of the centary size the same that exclude the death of thousands in the centary the death of thousands in the centary the same the same the same of the same the same the same the same the death of thousands in the center.



Then Schurethil had his breakrough His-deservered as remaining new exhest that showed hen which was avong the architere and how to men.

Proceeding second. Proceeding second has been all the manage and

easered theys upits has with a pay, a wine of rate, a balance, and the quality releaserships be as see bad before. And this fore, it's of resting on a stable and likeline characteries.

"The beauty of a " be sold " as the nutbod is soscopic argoin can not it to per anything they maily want, almost consolitions, no matter when's prote on proceedings.

where a prompt on invokation of Schalardinik has been provide some a free reportceptioning the assument conflued be destrossed. To part a sample call a 1000 494 4999. 24 bosen for a standard assumpt. Or works to The Transition, language. 9915 5 all Dates Cassiller CO, BOA33. And for Essence Brower CDNP97.

Control America in the Seventias indiading some North American tourists. Deter: To prolong an infection over years, a pathogen must avoid being destroyed by the hoat meriane system Hoa doos HM do the?

Evelds, Who HAL-or any eventeday beam of the three difficulty and touther cally with here difficulty addy and touther cally with here difficulty addy and touther beam of the three difficulty addy and touther beam of the three difficulty addy and the beam of the three difficulty addy and the beam of the three difficulty and the beam of the three difficulty and the three difficulty addy and the second difficulty addy and the second difficulty addy and the three difficulty addy and the second d

Omsi How does natural selection work on HIV?

Ewald: HIV mutates very repictly so many different venants of the vita call countails costent even within 1 a stripp point. This variation is the nex index of an abatetoric data within a stripp of the stripp of the stripp of the stripp of end the interrupy of balance of the stripp and the interrupy of balance of the stripp and the interrupt of balance of the stripp and the interrupt of balance of the stripp address of stripp and a stripp of the groups on the stripp and a stripp of the starts in the stripp of the stripp address of the stripp of the stripp of the stripp address of the stripp of the stripp of the stripp address of the stripp of the stripp of the stripp address of the stripp of the stripp of the stripp of the stripp address of the stripp o

Omnil Why does a patient become resistent to AZT after a time?

Exact ACT whites sphiloton restwere transcorptise, as that is can a users be another with the expression output the RMA calce with 044 colds on the RMA calce with 044 colds of the RMA calce and other should be the rest of the rest of the rest of the tam RMA calced people ACT behaviors to the rest of the rest of the rest fill variants that aren't blocked there should be predictionals, and after the years attend at what's on the people and the people rest.

Other At that point patients are some times treated with DDI—but the wrat does the came thing with DDI. Might a combination of drugs wipe out all the HV survents?

Invested That's what prepare have been heighing too, but this whose deems to evolve neembrook to he combinished be ere can generate Them may be 5-10 oundownates. Them may be 5-10 oundownates the whose out of hange to board any account of the most of them it to combine to some two solent prepared of AZT Merry more we obtain the service model that the combine comment the model that the combine memory model model that

Denni Several years ago the U.S. polrcy was to initiate AZT treament when perients? Total oconts fel below 500, but that seems to be chenging. Dahn you enjue against perivature AZT treatment for wate?

East in Europ, they were using a more sensitiv catinent Tool (ourist below 500 and racidly faing Mony people with counts below 500 an at leaf time years away fram capterioring as lead significant of AIGS 50 they? probably be getting an AZT-46481M; then drivers by the time holy really need that drag. The optimum time to begin AZT dependent on Mathem this pation of the werbs before control when more informables.



CARNIVAL

ing Theo, composition marily, she places it and she shows the strugging audience.

The Pays Faller is a stable of the olda woman is doing it Laler in tonighta the show by hang on the Bed of Nails

knochy dancers and the odd tattooed

men But in the process of her hockless mess the autance is smoly in swe, expestaryis on her Altomact, whon she pets up again, she da-

man with make on her back from a bed of naits-does that distarts you? The service and say, cook if a suprementary

a satisfacer portionner. This tour is the first next are charted to a wooden board the effect supposts crucificion as wait

online portions of the show in which setting close to the stage to come up even body else that they were real cherry. and seal locks. Automa nationalise we most describe this an interactivity which are the sole and contany strend. twity of the high-tech wa Three is a center reinner-any singlear nivitiant suisthow antertainment He plans to

known quantity and some teu loss man enable that others Topold the man solociari for the task turns out in how later, after plosing time, someone

are also manutays of the traditional neck by a conside siler, however does throw hen for a moment in a way that being fried in the electric chair by use animitronics so that tomorrow's Electrant Man, and JoJo, the Doo Semase terrs of all time. Dhann and Eng. These are the kittle of timos that future. If I could, I'd heve a holographic maps of Bernum, even if it was just on

just for the sake of owno each nervin suderice wearing helmats during that partice of the show. 'So they see the they see the tro leaving their backs he saw. 'I then that we did he an inter-

sideshow we're in control. In control anymore-would ann, or leat or anything

eting and sadistically beautiful to watch More than anything it is thorough, performed slowly so that everyone in the room can see the skin on fresh But while there are pasps and

Eventually McCleiland plans to take hark maste a terr, where a pol in start chitare Litias, anthumatic will po out to nicturion tripps like The Red of Natio ion Ceneral Dablo and updernasth Franks, Franks, Franks, A man in the on the top, gain face will be wathing for then, channing a se



the documentary does not it may seen he tongue from the electricity counterio and it makes for a very freeky storyout intended Tonohi, these performers also bil thermelves as heaks come fore to face with someone fat more

But then reference outro is a differmove like a many of the soundly i like me "People today ' he continues. "news more than annuch published of since They need something that's coinci-

While Carrowal Diabio is authentically old-an/a sciethow. McCielland lower ourset technology and all the ortegible tes it presents for building the belle



Provide the state of the second to write with one of the second with the second second

bother deal, they have for \$25 Mill and and and and a film fore; with our consultances - should be

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LAST CHANCE

The world's approximately 500 mill

Summing up their plight valueso nohte Jason Clay remarked "Whet which to deal with the methods " Seato in order to defend their mieletts

are signs of receivent change in the the masse, providing a workl platform for dubate, raising money for commuan Durigration of Independus Prohts Quiché Indon and 1993 Nobel Peace coastuly isunched a Decade of Indepnoue Dannie wheth husban in 1004, to

one also actually innert the fight to demarke mentioned by stagts concerns Oversite the Mack assessment them . Shop Reth of these orderingstone size

help them economically by creating

Meanwhile, back in the lab, the tibal nere burk all alter analytic to long after they are gone it is part of a money When of the information is in

many as 600 creates of interest This about 100 distinct or pure ethnic groups

ago He earlier research supports aryears to opver the approximately 4 000 cate of 1 islameter a year

Perhaps the most compelling and indicencus enanonments (and hance essential element in the equation

Although 1.4 million plant species have boah catalogical, them may be as many as 100 million different species, of which up to 80 percent are found in nantonels. One estimes turther claims that about 80 percent of the work? possistion rely on plant-denied medicries for health percent.

Hecen descenses of aurorarightmension sensets two behaviors as deverse will be accented be the behavior of the sense accented to the dotter measure outers deversely, and attrabutanty may among between the more becapitation on between products, in the insube Statistics on 30 percent call passespine duta develop currently and additional the develop currently and belavior by the develop currently and belavior by the develop currently and belavior by the were 2000. Businesses are beginning to relate the previousing the develop on callos that previous the belaviors.

Screekshi have recently discurred the narkeness we recardly more pretable infit standing for their medicine uses than could work for latters, forminstance, in a recent starty. Dr. Mchael block, devoter of the lensate of Econome Beary at the New two bates theirs, devoter of the lensate of Econome Beary at the New two bates and block devoters and the set of the could be the set of the prediction of the set of the lensate of the set of the set of the set of at 17 devotes in Guardenzia.

According to Dr. Balack, "It seems clear now that the dockion whather to out a lorest or preserve it revolves snourd the question of how much money a tarrier can make, how effectively he or site can lead the family Die of our pbs is to find economically whe alternative to inderestation."

Scientists have also demonstrated he law in he argument thus did growth lotsfo can avroly be replanted. Studiss clerify show hat understory Bowening plants or replanted secondary lotests are only one third as abundant and only unit-fail as discussion and only not ob-provid horsas, and may take its ince as 1.000 versits that we repower

Through two or low they tobust Darbor instant, Dr Bakok is meshad in 2812 million, Weyvap paramatopia with colleegues train meny countries, inclusing Bakok, working encidy with faditoria heatins to evaluate, promote and peestre matual medicines. If any successful medicines are developed, systems with be paid to the incidences continuities. A similar effort to preserve and prospect for medicinal paints in the lonats of Casts Rice teabeen sponsorad by Marck & Company, the world's largest drug maker, which has invested \$1 million in the project and also promised royalities for any successful drugs developed.

Dr Back also porte ou fait the value of plants is intrinsically ted to indiginous propies increading ted to inplants are useful and how to prepare them. But he warned that much of that precous increadings is being lost faceter as forest-cleallers increasingly come to control wat the custed work.

1¹⁰ varify with the Maya, for exception 1¹ varify with the Maya, for exception where throught to share consistent the Berng Shard 20,000 years ago the mail adductories, prival years have at least 200 generations of that) and entor experimentation to become themaker with their environment. And most of this is being bein to its generation.

The great traged," the contrust, in that ear an on the coup of skirnlyrig houseds in not though of skirnlyrig houseds in not thought of the precedented rates. It is a faile occution or analysis that leads to the conclusion that leads the leads to the leads that to the the lead to the leads that to the the lead to the leads of the leads.

The line of a safety for rative poor paiss was all two appavent at the Ken-Cos Indigenous contensore in Trails Beareen ooktrik prototologe of Jango Indiana duubed in bragn, body paint data during segurab setter feeddinated for photo search, and painbet oorginuds by Jopanob Ana and Drovergan Bearram pedotorio-making Institute dood the systematic centuring that box the systematic centuring that should be the manufacture.

Mimme Degawan speke of the "Itali War Policy" by the Philippine government to elemente resolution of nancentral lands. "If the government lakes lawy out land wards that are spek cetter to end to expand a tank and Cost we have to insolution treact is to for we have to insolution treact is to land and will people, but also drings onthe services."

Subject increase recoursed how the new collian government is Bangladesh has pursued a policy of genocide against the Jama hill propie in the new new contineations solicies bended 1,500 villagets into their bornes and burned bein alles. Munder thores and burned to be Munder thore as in thore and more



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EXCITEMENT

March's exclusive premiere...

"Death In The Promised Land" by Pat Cadigan

If you are munclered in virtual rootly what happens to you in the real work?? A science factor superstar explorer the and larger questions in a billient routing.

The parachese or an time user-weakerd, Corporate releasts of the confliguous U(1) is and obtribenegatives und GROWS. For sale and phoality sale with resolution on the weak waters of advances to the conflict on the conflict waters of advances to the conflict on the conflict on determined and the conflict on the conflict on tables and the conflict on the conflict on tables see there with sales are weaker to do under them see them with sales are weaker to do under them see them on the conflict on the conflict on them see them on the conflict on the conflic





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sense daily tances for the Juma. Jookman said, "My propie have been competed to leave their own villages and forced to live in cluster villages film in Visitiant and Peru. They are effectively endpixed working for the milliary campa and the longit service. The government doesn't werk as they are out and

Chartes University's of the African Bates pypting this in Reands, the world's fasteril growing country reside how population explosion had thiggenes an invescion of the table lattice will be are high trepdish, the indigenous people, but leve other tables chare in and took everything in tead. "We have problems of being remarked low our lends, and other people replacing us. My peoples were threven away ust like you threve were, robberh

The exeguration was autimated up or Valiable Argued of the introflexed to statuse the average of the introflexed to statuse the average of the introflexed to statuse the intervention of the intervention of average and average and average and the intervention of the intervention average and average and average average and average average

Threaded through these countiess stores of investor, staughts, and deplacement is the soaft valication find the laws of nations were nerver desgned to protect their rights. Workshill, many gov/animatia do not even necognite the excelence of these tables as a learning ended of brooking.

Cluice to homin, in the U-Med States, the air a conditionative constraint, show there is a conditionative constraint, show the Equation States in States and States Dataset. assessments of Home Were and Dataset. assessments of Home Were and Dataset. assessments in the souther States Dataset. The States Dataset and States Dataset. The States Dataset Dataset Dataset Dataset. The States Dataset Dataset Dataset. The States Dataset D tions, and efforts to entice satisfyations to except toxic and muclical wasto

Proof is started, the there exists and even to the started sta

The outreef escueton and public policy divident at Cubrinal Survival Machael Westlaw, is an environment of the setue nogenous optimisers of the periodic level as well as a profession on 1 do see constitution impriving the indigenous populies—in a current of the periodic state of the periodic especial setue is and the periodic espect espects in the start of the periodic espect and the start start of the periodic espect is periodic to the start of the periodic especial and periodic on the en-

On the other hand, Lawdt notes that have have much loss support from the Directon administration for piblel invalidgeness rights and a signal lack of hnancesi softmentment. "There's a real unestingness to accept the idea of group reptre on an estimational leveltrail group reptre on an estimational leveltrail group reports over bird, natural hesevences entrementaries," The lack

The Utriad Status has rejected an appeal to fund the U.N. Year of the Ward's Independent Pools A State Do partment official said the United States was in substantial agreeses to the United Nations already and owned millions more for peacekeeping actimities, adding. Their not is ear the wait as it.

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Insportant. (Or a matter of having to make chooses. We have obligations that we legisly need to meet before we can go about making grants that are purely volution."

Colore the base did to suggest the U.N. program on indigenous these occupied with private projects remains the best hope of future gams for noive peoples. A U.N. volumity fund has already raised over \$300,000 with donetors future under developed resizes.

Bis community prejects resermended for approximation prodentitionary and integritour-equility prodentitionary and the form for Mapping the Inden average in Cheira, a more and the indent mathematical and the indentition before in Cheira and the indentition provided Carolina provides and applies and before the indentities and topphere with bodies and debuge about tophere and the indentition and about these about the more about the indentition and about these about the more about the second about the second about the more about the second about the more about the second about the se

Strifer projects worldwide by private groups have also provided ecoromic alternatives to environmental distruction for indiganous peoples. A result for the limit form platformation of the limit form platform the limit form the limit f

Cutural Sanival Enlargease tracises in susteinable products file Brazil nus for Ranforeist Osuch, Zantosin organic transy and beesway, Minsaiotan wild into, and Anazan rainforest opolies with plans for many near product lines Since to 1989 launch, product sales twen traited SaS million, and a 5 our cert price president has yielded another 2006,000 which is provided back into participanting communities. The program has alliastical another \$500,000 hom foundations, governments, and hom provide theory. Also Cley, and how provide theory. Also Cley, and ther communities and home the second their communities and home the second provides and alliant to be the member provides they want to by."

As securive director of Rights and Personana, a previous Mathington, DO, Penantana, a previous Mathington, DO, bota reincursos, Diag patera to stovepp an estivy-anting unadore systems to dentify and prevent potertical disastera for indiguinas pateralismosti Subtox Statis, leg et and causais, "Celly and "Partmementally anting Ware and to be acido a intrale assessment and the fact system people enti- med accounty of intralementally anting Ware and to be acido a intrale to potenciation, ethnolocidi, and presental assessment when thesis mation to bettere to presentation or intrale to potenciation, ethnolocidi, and presentation and them thesis mation for alternative and the statement on the statement of the statement on the statement of the st

For those involved in the struggle the strategy for the future is clear. Consolidate the Universities lead to defend indigenous rights at both the

QUARANTINE BY GREG EGAN Review by Andrew Wheeler

November 15th. 2004 an immense hubble (roughly equivalent to a black tote's event horizon) attacters hereente around the solar



system, esting off the rest of the ursverse. The stars disappear No.

Thirty-three years later the inevitable disruptions have died down, and people are learning to choice. Software that runs on human brains ito do renefitious tasks, keen you alert, and so only has been perfected, and is used widely But around for a nitificit tarrocist return the Children of the Amos (el horo añar Rebbie Dev and divioled to chaos and senselets vibstances det Ligtli gebate con Mele Stavelators is birad to find Loura Andrews Lours's prearely retarded, construction she's assessed from her haspital. For the third area

when he mass ofter Laura, but I well treat it makes the "fam step" in Gron Rest's Musice Mars lock his small change This is a real band SF book, and Ecan has taken a cutting odge assessing upon granting mathing ret-and translated & into honor | ton't coolan any more than thet-it book is no experted 1 don't used any one to miss the that of discovering It theroselves-but I will say that you have a friend who claims that there isn't any really monneys hard heard the idea before.

Assessments and available to earer back at book stores and earl-east-Fiction Rook Chahon n 193

ness science and technology to identhe motion and adjoin utility million nous resources: economically ompower adjunation and media campaigns.

cleanang in the Balkans which threat ans to discredit indicence as calls for auagainst native peoples, to the resource ate search for foreign investment

trong of us who have been doing the 1995 will be ust as hard as the work in 1994, but the work has to go on "

H, but the work ride to go on late for many cultures." Robert Lewyth The real challence for Cultural Burwelcement our dans strengthen indice the U.S. apparent and take advantage of popular culture and concern. decade and beyond 'DO

CHEDITS

ages Tare Ziribarth page 4. better Ma soles Kick, pircs & Reservary Webbr, page 10 network V, Duting dog, 12 Tim Abl Octail Att grow 14 Sandro Wiler page 12 the models and house must chara but this page 20 Gathing Howert prov 24, http:// Granter Alle, pip: 28 middle Th Evanter Autio, Culture Center, proje 25, hotput, Aut. ten milde red bottom am Romer page 45 Teures Teards page 48 Mdas Umamili name 44 has and ba criddle. Malcolm Rok page 64 kip and kip redde, statcher kin, name \$1 bestope Longe Meletine should be Money La Money Simphistock grow of

INTERVIEW

mont two or three years before sympall or those associated with the vruss vitus-later on-you can't I need this Medicate They reacted the manufactual Omer line but mont the AIDS on

Fault it will have through the populathat consisten is will determine how needle-borne and sexual transmission since every 15 years on average then Onver How mild could it become?

ballbark figure West African HIV-2 fected will probably die of old 909 II If an a population where propile don't strains seem similarly mild Beseprehars have been following a chain

Ewait if people chance partners often yary 1984-efter several years of rapid transmission-would recent later mucbox to be more seven. You can measur's swatery by the time between infoction and onset of AIDS. That appears to be the case Using stored tood samples we propriote the time of indoctor for about 36 gay men who way indicad before 1980. None came down with AIDS within few years. Date 15 parcent of the infoctions occurring in 1884 caused AIDS within few years. Other Date it look leve HV as now declange in watersoft.

Event Protocol runno pouch who particle size of participant parts and particle size of participant parts and parts and participant parts and parts

AIDS vectore Why?

Event Wackness einit by introducing concluter parts of vivia intelling privaterization parts of a vivia intelling privaterization parts of molecular to the mark strategies and the strategies of the mark strategies and the strategies of the strategies and t

Once Couldn's you design an eli-puipose veccine lini andré recognate testaria common toi al typas of hai wau? Evalet: Thrite which rospacethese have works around, and they are the HWs workers around, and they are the HWs of the future. You have to deal with many thousands—probably hundisids of thousands—or wannis.

Omit How did we for example de sign a vaccine for smallpox, then?

Evald: Smalpox is a stupid virus. Bilting a DNA virus, it desert have a high mutation rate, and it down't much change its surface potters. Its as if all the visionity were the same cost as once you use that cost as a target, you can get nd of all the adversaries. Over is obtimen should too?

Evails That's a officient wort When an true out of numeral, the ophthema or general pooless is toom the destroys the calls around is und valuessa them numers. By reporting a valueme based on the town, you induce an immune to ponce that make the town importent then the town-poolump bacteria word spending 5 percent of their budget making fields furthess weapons, while the townloss forces weapons, watter the townloss forces weapons, watter their veluable resources. This shrifts the competitive belance to the milder beotimis forms: the a model for vacches of the future. Instead of sying to make vacches dover as broad a spectrum sposible, we should usually nerrow our focus to these proteins making car tein stains termful.

Onne Can we solve the problem of anthrough meistance the way Inc?

Eined An evolutionary approach to an hostics would selectively use here to that popping with severe soluris. In some hespitals, when a patient is bond with severe inflaction, wargone in the word is treated prophytactically hesp proceeds studying hospital-acnes. People situalying hospital-ac-

Wake Up Energized!

Wate Select Complete, and each per

Frustrated With Your Sleep?

Do you now and sam at night? Cash seen to find a constitutible position? Does your back othe when you much at These net sign that your memory doesn't support you remarks?



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Metal and macteous suggest exils the firm parts of your budy creating pressure possis and weekers (pread suggests

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curved reflectores now claim barmful or

sas. For most other diseases we're get ches exposure to these antitactics, the INN So antitutes now itelfactive may to effective acres several weeks from sunewing the next leve weeks. Over the

Onver So could we see new plaques in health care?

Field Violation them now at hospitals

Infe Dy some astronton hos-Your hystend died of an In-

stend, the parties digd of "complian river's into a hospital popules an infect recoaschers have menaced to trace

Orms: Should we worry about these

Early Invient step and stack inter-Some strop in hospitals cause hinner doath Some strains out way at the sten and muscle and can reproduce in foctively reach. In tworing both version strains. Filteen years ago, in Mel iss doctors or rurses moved within and moved investigators were able to doc . Other What traits make a pathonen a

used to these infections and estimated that should 1 000 patrole dust alth

One! Can we avoid being infacted at

Ewald. Untortunately, we're at the many of the hospital. When my clauch-Washington State, my wre and I were appoint that a mine study her before was a good stee, and she was of tended When we taked to the pediatecain, he got endonant and said, 1 do it all the time myself "

Own What he most draaded vileo

Ewaid, What worry me most are those tutes the worst cheese depends on the

ABOUT A THRD OF THE RECRUE IN RUROPS AND ETHINK THAT SOMETHING SIMEAR WILL

Smallpex would've been one of the was nothing to control it. Actually, the 100 execut lates often within days. thuse parasities for 50 years and the

For Iwanane, too, 1id worry about or of justicity like TPI or small pox. The My and affaction AES categorie and others away from developing the ability to the

neuros threa?

Ewald The wrus responsible for Rfr Valley Feyer, which is transmitted by - Alone may have breezed in some innon as it becan to rain a looihold it the human population. Trag' moscuyears ago in the water inside recycled They're capeble of transmitting several pability of being transmitted from new acquired this capability, they optid be damaging We need to work it an orwater to parage or d ifs a your with a within a white inhocionils for a long time.

charman II may be moving Americans has been

better studied. About one in 30 In-

mothers to their batters. It takes about

Orry I wu had a billor-dolar cratt

Finald An HIV stuck where we can ce to areast where propid have been reciacing securi postant and postar the non a reduction in harmfulness II there a true when we exped to know This is 6-with HEVDO



ANTIMATTER



MYSTERY

Last spring, serveral hundrod people in North Georgen ducwend their pet doga masing, oftan from fanced yands "These ware no forcad antisa, no evidence of dogs tigging out, and no signe of struggia", notes Kan Johnson, zwetsgintor far the Humane Society of the Urbid States.

From Albens to Duhlonega, dogs of all shapes and breeds simply disappeared. "Some were two ten-year-old dogs were taken," notes Hiel County Shariff Bob Vass "But there were no whnesses, and we've made no answis"."

What's the socio?

According to Tele Mac-Cuaans, a pot supplies atome owner in Affinine, "Stangers were spotted in some neghborhoocia a two days before the dogs were nebbed. About five alogs assumed home, emachaid. Some were occered with somduat and anolity, gooly stuff. One head a deep parioture wound to his meck.

Adda Saily Feliato, spokaspenion for the Humana Society of the United States in the Washington, DC, offlos, No assumptions can be made about the disappear.

STRANGERS HAD BEEN SPOTTED IN SOME CE THE NEIGHBORHOODS A FEW DAYS BE-FORE THE FAMILY PETS DISAPTEARED.

ances, expectally when many people allow their para to ream. However, we suppect there may be a network stealing animala for research."

Whatever the problem, local publicity and heightened awareness seems to have heliad the dog-napping for now The Humane Society is ofteng a \$2,500 reward laading to the conviction of anyone responsible for the trefts. —Sharry Bakar

COOKS

Donna Kouay has such a great affection for kooks that she has written a book about them

Koska A Chicks to Mo-Mana A Chick Jose To Mo-Mark Joseph O Homan Pakel (Farel House) Kogita wao haada mana Pakel (Harris Hanni Lamana Pakel Hanni La-Marka Hanni Hanni Hanni Marka Hanni Hanni Hanni Marka Hanni Hanni Hanni Marka Hanni Hanni Hang Lather Hanni Hanni Hang Lather Hanni Hanni

Research and the second second

and eccentrics, nor should they be dismissed out of hand. Histen to them," Koosy explaine, "because I'm desply curious why it is people believe as they do."

Beestian, Kossy is worl awart this kook leb trace or colorue. While the perilogial Almost Vendal and the strategy of contrineets of the strategy of the control of the strategy of the teerth contribution, to day the a hospital back was been as a kook is the riterionteerth control and the strategy of the other hand, strate of the other the aktin travelated event approximation in the meleorith garded as kooks toolay.

book will cause propie to be more aware of their own beliefs—where they came from, how they got them, and why.



tto selasi

Some people claim to have a nose for water. While such shiftles are rarely taken seriously, a tow years ago the Cerman govomment decaded to test the notion and funded an had been difficult to find. "The objective," says Hans-Dioter Bitz, a physiical at the University of Munich in charge of the experiment, was to find the location of sevenal wells with yields of at least 100 then per minute."

GERMANY HAD A QUESTION- COULD THEY HOME IN ON WALLABLE SUPPLIES OF UNDER-GROUND WATER WITH A PENDULUM OR A BODT the dowset, who happons to be a GT2 cell and sanitary engineer, inspected the same area and, within a flow days and supposedly without the information available to the scientists, selected aeven potentiel onting sites. Al 21 snas ware them diffied in the same faithin.

The results? While only three of the 14 aton chosen by the experienced

is at a loss to explain just how it works.

The studies generated considerable extrament in Germany when they ware fail released. "But now it has cooled down quite a tit," resp down a studies and a studies down a studies and a genrual tax. The Scorety for the Scentrik Innestigation of Parascienco, "anote we and others have been collocare to

investigation of walc

dowstra-those who any they can benefit underground water without dowate activity of the second location incent other them using, sing a location of the location incent of the second using, sing a location using, sing a location of the second. The expension, which were considered to the second were considered to the second the second. State of the second second second to see a downees a could be second. State amount the second.

At least according to the German study, some apparently can. In one dramatic expaniment, a funce off "took phase between an expensarood dowsor and a seare of hydrogological expension adtempting to provide a wator supply for serveral and lowers in the Kurungsist Dictrict of Srl Lanks, whore water



The hydrogeologiests choole their driffing sites with the standard goophysical techniquee—using gooriectrucit data, goological mapte, and aenal phologistm. They also had at their disposal classited milking data and information on former water soarthes in the district. After soveral weeks, they selected 14 seles. Then learn of hydrogeologists hit the tropiling in the daws er proved correct in sor of his seven site choices. "The chosen was then sent to other countries." says Bétz, "and whatever his task of the the sent most countrol of the was successful." Betz is new conversion of the washy of the dowang phenetment.

way these losts have been done. We are not very tan, for example, about the way the donver collected and evaluated the deta for some expenments, and it seems the Sh Larks expension were not properly contrailed. We also effered to itsel Burk to donsers and the has refused." —Patrick Hurgits

VOLATU F

Mark clash: bit-liter Them was mitchbefore it vanished. Seconds later it ward Bohorts father

holded like a balloon in front of the diarchief and writers I use about bobbed up, similar to the first, but

Tray were staring at something in forward topether gyps wide, hoads to one axie, like manniking. There was tranches and crows, fapoing from one tree to another contra mile

I skinned into the residen at the from

a beariful of stoots from the ornamental path i lobbest one at the workey it engoged against the glass They ducked out of sight A moment nasaed that Sohort orded to beed up about the

"Potert," I valled, "you silly bugger, lat mount"

He seemed not to record ruge me He leaned his hold to the left and to the note 1 think he smiled but in the

light I pouldn't be sure. He raised a hand the civit' seams to know what to

I gretured engrity it the door Ha anithad and disconstant The ball was dark I waited for the light to go on Nothing happened, I stamped my foot and looked around, feeling toolish I from the lists appose. perflaps There the cir glowed socium-orange in the acht of a dezen priverful lampa, hung up on gampes around the newly mod

I furned back to the door. These was stil no light i thumbed the bell again, and again I got no reply. I had had out of my bag and showed it through

I crossed the road again and looked up. Robert and Nick were pacing - was really mine it was articuly my nem

backward and torward in front of the window appearing and disappressing other eyes fixed, unbinieng, upon the trees ecocyste the icy branches, the

weeked back to the car. I wonted to call somebody the police perhaps, or an arthulance, But a weart a crime to longre a doorboil, and herdly a seckness to stren at a tree. There was no

I told musel I was apprv and affrontiad, but I was lying The sight of them had deturbed me I drove home

I found Merlene perched on the TV She glanced at mil, than turned back to the tank, the faltes were playing it lanes was clazed over. She went still

twill, a minimized phase that had seen Cadam and replacing it with one designer crunge dress by lasey Mycke self I had once as to make a maugreen gloss over the woodwork, the side Belongings that didn't belong

Mariane hated it. She spent most of her time outside now, in the jungle I had let mow in the back garden 1 only saw her st most trees

I opened my beg, took out Robert's returned on a literia for Barry (1994)

Bohart's film was a port of test

rube passed forugh the blacked it rul, and disso-

Abstract aremation is a difficult to make a fem that somebody, somewhere, workt appreciate for some of their care. Boberts film

I stad, "Don't even think id." swap her up in my sens and wroaded her

"No." | said "No beths."

miner ters. A response feil on hor none breakfeet they is I use through just a fare Limited the num Rhe clentod at

"Some cet you are

She began grooming, har idoe of a

Lward back to the lutest ment and and the first "Sniny she only unnit your water" Nicking off my shoes. 1

rething also in the house-and i had Support of another in the mouse-term acceleration sone, something of an achievement. therefore, I could three of no artist, no movement, and more to the point, no ed-

I clambered out of my seat and she was peeking at the TV through the can between the unst pool the backzeel

Mariece's ears twitched. She han-Instant ritter

"The bancood " Lidun Babarts file out from under a pile of papers. I glanced through the burlet I had appeal with They'd slotted us \$40,000, less than hell the usual hardnat for a fam of thes £10,000 I wanked my brain for a way we could lead money reucidy the more more willing the chantal would be to mount a service on a kind thousand-odd pounds wasn't ensuch charlord the tie rate the dask and

UPLET OR ILL OR LIST HALF ASIFER 1 KNEW EXHAUSTED HIM, BUT I HAD NEVER HEARD HIM. AS RAD AS THIS HE WASN'T



weet bank to my goat. Marinen kunned masel from her, and cuffed her gently

net tenue. Burber than face, me Matterne white newerd. Each plane was tex-

thread her off "Call yoursell a critic

"Easily duned ab?" I pass toplate shows for the secrete. "You should write

Markens fell niget & recently connect

Robert's film had proved problematic an analysi, and to my mind his insecuoften made has notifish and neo-error

controlous however, had other steas He began to miss appointments to a run inte, or at the worrd winue, he became vague, unsure of effort his warend when his openion was needed, and all and the way the channel wanted it oversee the project. Thanks to have what had becaut as a E100 000 tem bepaying for something they are not al-

Than, of course there was his left-to backed a table for seven diclinic and Robert called at my office at eight, hav no simply entry We could have a miles frat," he supposted in tones calculated to deeden whetever sparks

of enthusagen might still be lurking in Marlhous as they would dram from manipulation and the Mill of turned to a jazz concert. Orphy Robin-

I danced at lam "What? "Nou're not littlen na ' Istructed "Wrate no use?

Last ame 1 d trad to drag out of him what the matter was, held told me has tice a hollow shall a zonizio, not a person Startled by this abrupt conferences I had suggested he keep a dream stery it was perpending of me, and i was automed he'd thed out the steel desperate-desperate enough, in cleed, to preb at enstever strow was

"What went wrong with it?" I asked

shaker and shock cocos powder on my callo late

"Twe lost any real connection with

You mean you chin't dream "

"Mont along

"Timetables," he said, with biller relate "Late traves. Traffic arrs o the

I handed him his expresso "Arre-

Terrenter apportments Bechy Id. No rustatives, no insights. No faghts I day deep much musef and all I come

his shock his heard "On racking real

"Can I mad him?" I asked in an pstart swapping professional cool tor la-Letwise mean selvated to the result

slopen himself segmiessly into the role of the Great Maris private secontary. He said. "He's coming to London

'Alzhamers "

I couldn't think what to say Robert

Robert treated me to a bater scale to not why my works going back, if that's what you're thanking. It's not an

"I never thought you were using thes-

"That's not what I meant," he said

"is this - is if doing to take long?"

He shrucged. "As long as it takes " I asked Robert whether under the

Situ He sad to Limpte up every confrom all down He wonted to do ahead

while to exactly looking after his father with the demands of the first had been best young director I had juries at awarded him major prizes I had in-DDC. the BEL even the Enrich No. tranki Opera. The last thing I wonted to

I let that an aide for a while and

I cert to meet Nicholas Both about a

When I get there the flat was a chaot The letches surfaces were blotched and smeared with tomato saupe, coffee grounds, God-knows onion skins all over the foor tikes in the dring are by carnet use colled up Alt-re-

of the wells and fifted a green sheet that the refer his fether blocking and at the far and, hunched up, bobbing his head in time to queer, internal (filme)

Nicholas Roth was not old, in his mid sature cardinate Like has not be wore his hair short His eyes were invested, the lists slightly monopioid. His characterizer like Debartin water cronounced, but his mouth had lett gli the formation As I watched a decriat of salva worked through the stubble on 'Nek?

"Las" He turned, and saw ma and

I faroad a smie for hm "Hit" I snat

"Have we any stamps?"

This wook's subject " Bobart murmured behand me, adjusting the con-

The old man and 10m manding lat-

"Do you sund letters to Pinewood?"

"Rappened if I can see the point" mail

"Since we haven't any fucking 10701

"Dad," said Robert, "this is Abepal." *Ahc/*

"Paper de unor"

Netwiss stared at the green sheet, natived becausin him. "Chau's broken."

"Needs now covers " His voice

I good "I'm a pendunor"

"Films," he said, to no one in perio-Law?

Max *

Hs eyes came alive at last 'Two

All through denote he completion with takes-some of them obsoene, all

So much screwing around

"Null put you and " Deboat muttered westing he spoon from here

"Sarry" he added, turring to me. I

Alterward, Robert out his tailor to bed

I said, "He doesn't recognize you,

"Not often." Robert schwitted

What happened to the carpet?"

I remembered it was red. So was fre sols. "The color highliens him?"

the carbol color switches from grean to ad. What I met him of the plage he stonned dead at the edge of it.

I aduated the steel where it had behind me ratiles. I feit for 6, picked up

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a bottle of calls. I throught at first three ware aspirits

Longed the label it made no minute

"It turns on new parts of the brain."

The 99 percent we don't use?" I

Bohart waver his hands damaother its maghin for neurons to per-

I immed the britis in my raim. More esperate that a car. If Netwise Roth stavon with Robert at a one-bedroom conversion in Packham? I said. "Whet's

When the bosis reacts to service a surged in human a loans any if the the route out chemically first. If pressy names recentrys park up a churrent the habit of rerouting its signals more often. It can do mitte with inter-

"That's how it started," Robort IQTER!

"You take quite an interiorit."

They serve all about medicate | proved Damai Polian k was about the genetic oncore of Alchvimeria disease. I said."

"It and always " sold Robert

The phyleus question hung between talkd mail clopped the Dariet Polen back onto the pile. There were other to about sharks. Deniel Dernet's Contest

"Some new ideal?" I supported

It dawned on me suddenly first her

Aternald-will Nicholps

He swallowed, staned at my "We don't know." he stad, phing nothing moley "No one's done this belies "

Ind expected Patient's pickare-out to ap-- could have prepared me for what

received it was no surprise when, a wask after my abortwo visit to Patient's flat. I received a letter from Channel d's animation depertment termination

I rang Robert and as usual I got no reply About an hour later someone from the Whitehouse cand in to say studio (had head for him. I sensed that mediately feeling stated and obscurely

My contact at the Whoelhouse, or advartising consultant celled Terry put Robert hadn't made himself welcome things had been with him. 'He was a

"How do you make?"

Kept the class to the stacks locked on the Harry deck."

This being that cheerful keeps han going " I said, hiding my embarross-

"is there a problem of some server

arrise "I may you my word, he won't be

Latrunced said nothing | don't tuing londly to people who yeopentize my hard-won contacts so I wasn't count to make excuses for him.

Tany let mo into the studeo Wrtscal blinds of plasticized nos paper its monitors rained comitavas, tuned to high class, were two steel-blue potas Britwette oper had been celed mently mamara sentey wilconstate broom-

"And has assaurus " Isrry sant Ship reached down mits the pap between the cushions and daw put a brown

"Might as well chuck them." I said 1 what has belenning into my shoulder bag and zepped it up. I took a daep breath "Terry" I began "I'm really preath. "Terry," I began 'T'm rootly

Terry gave me a commiserating amin "Front it-and the offer holds for next time. Anything to escape the

I wanted has to silance "Ascence?"

Least the latest or ration. I have "Are they special?"

More expensive than my car

Anthered back through Suno with my beg kill of blank drawing paper and kimpers and a £6,000 pill both ratikno about in the strains, non-in-inless pocket of my designer jacket, and d an acculations and asked whill was doing I think I would have lided myself I had decided young in life not to be a mother and I terrented briefs

analysised my material and and all to my chapm that I was rehearsing all the usual motherly lines. "How did you expect to knep warm without your samper?" and "What wore you doing

List one have done from one obtaining It fail back down the stars I plucised the bottle from my pocket 1

tensed out the cotton wool also shock the alls into my pug, show the pills into my are prycha life ingrins

They always The bottle was hall arready

I got home to find Marlene, an She have I headed for the kitchen She followed me m

point she least up and dug her clean on her head "Plassa," I aghed, "It's been a bad day "I put the dish down in

Just like a mother. I had done my best to ignore the truth of what Robust was dong "They look just like asput them in a funny oblored boiltie or exemptions, But I waier Tablen in

I secolari that right in the Bar Baks. Heid road. The known for a long time

Net every case of Althemeter's us her itable. Parl was Nicholas Rothing at a wars it would explain why Robust have ther-of risk of Alzheemer's (woodf at was the only way Bubert could custerthe hereoid a supply of those mesoious uneffectable pile

I received how that night, and on countees other mohits he had told me how his maximation had died, had shrweed up, had varished-but I had -

out interned I should have put two and two topether when I heard about his toimagined that he would mail himself not sought treatment for himsel? Whe had be helpeded on a modificent/?

Estended back from the driftle cabsaka," I snapped, shaking gin off my increased. I wantil back to the kitchen Shard merely picked at her food. "You sure you're ckay?" I asked, with grudo it She ignored it, leapt up on the kitchen counter and howind acon

"On for Gods roke" I get the plut ertraid (preatd "Med" | said, putting for the water to be confertable for her

Metione played mn absently through my skirt

I strengt "Do we have to watch

She swamled her exte for rada

She crowled ecstationly

"You're as had as thity are." I said 'starmo at their bloody toos '

Minutes passed The video stience. When it was clear the store sloped off my lap and headed for the Dat-1920

I wondered: What if Nicholas's Alchermer's want't heritable? While a his son ran no special risk of develop ing the disease? Why then would be have taken has father's pills? Surnla currents? No that sort of southile experimentation went out of lashron in the Sectors, beauton it warn't in

Fighert's character Ho music for a reason Sometring other than Alzheimer's ment yet mosted

All that talk about his hollow, worn out solf

I rewound the film and played it again it was no

most Locatin's factority way into it, the way my cat could Robert's fem had

claind trable are

When the police broke and Bobwite that hered and part paten in a comer of the ining room. Further investigation sources stray does in the mart, a pet rubbit a means ohid in the coopste comer, Robert and Nicholas Roth ware curled up asiato, wropped courd shorided bed hern and abled, prom-

An ambulance look them to Kino's College hospital and later that evening. meeting and entities they were admitleaden ookheite texpla

They are still there IX



Princes hade's and case the force A low

"abot's the matter area? No bath 105707

Mariene looked up at me and

I sighed, and ticked her behind har taft ear "Of all the regists to keen and make up " I charled her write

"A small boy gets toppost in a face

She wouldn't map witrens

I ignored her, picked up the remote and pressed play The screen werd white A black point emerged in the left-hand corner | was apres to rherow the constant but Mariana had uturbat to pur

Theory over

The curried tases and by death Stray tests, smudges, feeting Inco



METROPOLIS











the Music

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GAMES

ANSWERS IN COMMON: From "only" things to colors to word derivations

By Scot Morns



There is just one tour where word their auronanous while the billwarg hour in common. Where it the only wood? Prevalent Jamea Bachanan, the track cool stoffs, the choir chow dog, the hydel bone, meaning 40 disgrees, Ashookawa, the pyramitte, Mohrgot Cowordy, the lings of hapel, Lings, and Otho, and a loggerhime attraction to Perene, Social Defense

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days of the Ancester Netds day surving, Mohayd Councy is the only X-caudo Sim to way the Academy Award for Beet Postus, Nepel a Net of Net advanty with a Anternet Sim Academy advanty with a Anternet Sim Academy advanty of the Anternet Sim Academy advanty of the Anternet Sim Academy advanty of the Anternet Sim Academy advantage of the Anternet Sim Academy a

When I also the gate from the Boot Month Game message board in Game message board in Gran Chriso A Inferio Ortin, Laked polyth board The State State I Inferio Mark Technologies Control To Mark Technologies and Lake Montgain. It is expected the different congroup, the State State Congroup, the State State of Chron State and Chron State State Technologies in angle in an upper the Ostim

POLIP-WAITIN The secord unanswered quastion from January select what the ten companies and/or products in each grouping below have in common

A Coce-Cde, Budwester Dentyme, Martboro, Baby Path Camphell's Jerre Ass.

The flags of Libya (for (control), and Napal (now ishi) all have converting in conversor what a 6¹

TP. Old Spice

B. Coors, Nodek, Hurtz, Outy Serk, Sigart, National Geographic, Shali, Bayer, Mo-Conside, Prependion H.

C Kreft painwaan cheese 7-Up, Hanakan, Doublemirt, Salem, Tanquerey, MJB, Fuji, Ouslier State, Amatican Fastas

D EM, Mnobs, Ivory, Alua Seitere Ersenmenth, Maxwell House, Lowerbrzs, USA Today WD-40, Philipe'

Readers came up with many similaritep between them, but the test leck loa in the coars of their logits of packaging. A is red, B, yellow, C, green, and D, blue MOST OFFICIUM. The

MOST DHHIGUGL into that guestion work to find the connection between these axis, attack, skoth, vargen, perpeties to both warned that the weak a wry tough puzzle indeed and that you'd have to know all about these smersus and their names to derive the correct answer".

The hert was dense. The words have a senior donvalues Many series harriss somalines each to humanis-jag, choles, mit, and oo in Bu test he ones on this test he ones on this test he ones on this tay, the organitation arising was herred alter the herrer characteristic for example, the first reference to "booky" describing a maged perior, to ones her where a book each feat where a book each feat here and the set herr ped it was called a "booky" because the other Minister ped and the first reference

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Incodentially I said in January that one very difficuit quic question (the crisi the actually comfared the answers to the next of the gase) was informed of the gase) was informed of the gase and the second of the section (the second the section of the three quee toors birt unknowered operation and colored)

OLD BUSINESS in June last year the formula printed should have looked like the $12 + 144 + 20 + 3\sqrt{4} + 5 \times 11 = 5^2 + 0$

It reads as a limencik. A down, a gross, and a score/Pass three times the square root of tour/Dwood by seven/Pau two times devonits rine squared and not a bit more.