SPECIAL UFO.EDITION

THE SEARCH FOR EXTRATERESTIAL INTELLIGENCE: HOW MUCH DO SCIENTISTS (AND THE GOVERNMENT) REALLY KNOW? PLUS: OMH/S ALLEN ALMANAC HUMAN - E.T. HYBRIDS SECRETS OF THE ABAUCTESS

LOOK AT A

MYSTERIOUS CORNFIELDS OF ENGLAND

AND THE SOVIET





EDITOR IN CHEF & DESIGN DIRECTOR: BOS GUCCIONE

PRESIDENT KATHY KEETON GRAPHOS DIRECTOR REAM DEVINO MANAGING EDITOR REVE FOX ART DIRECTOR DWAME FLUCHUM

8

First Ward By Dr. Samuel Brocker The success of nations depends on people's Diamony in scanne

10

Omnibue Contributing authors

12

Communications Readors' writes

16

By Thomas R. McDonough If extratorrosinal intelligence does exert, why hoven't we observed any evelonce?

17

Law By Bil Lawen Flectronic Frontier Foundation Defonding hockers against crimefibilities

18

By Jeff Goldberg The ocuph suppressant you bought might also combat your memory loss



20 Body By Kathisen McAulifie A particiliar developed itm years ago could be a real articlos to drug addiction



By Dana Ponts ughting technology in the future will are holograme to provide natural light

26

By James Oberg By James Oberg The commonsults expertence with the Station is providing NASA with inveluable information to avoid metion similar metables

28

By Richard Brockerol Little Green Men. Is the country really ready for their mind-altering space sizz music?

30

Artificial Intelligence By Steve Diffee Sof-improving computers Algorithms can help software evolve to meet new

33

Continuum

The importance of whate watching, plus mood foods, space trash oblicctars, norming planets, microweable eyesight, and 3-D TV

e



42

The Rig Ear By Denra Coerbye The search for extralanded for extralanded for the coming generation. The generation free forms of rackowaves. Will astronomers in Areotoo, Phanto Pieo, ba the first to make contact?

50

Flation: Snepshots From the Buttertly Plague By Michael Blencp You survived Afted Hechoocks bunds How will you fare against this new wingod threa?

60

Pictorial: Piald of Dreams? By Dave Sobel Are the mystarious carcles on British familiands peof of UFOs? Scientists say they know the test

68

Freedom Trail

By Rob Fruchtman Traveling through Easturn Europe, a documentary timmeker Naparts on what the huture holds for Ere people of the former Communist bloc countries







74

Interview By Thome Bass Perocke-fact usually applicing upward into outer space. Now he's neeching into Egypt's pyname's and othe acheeological sites and durining the Naza of the planet based on its part

90

What the Government lan't Seying About UPOs By Patrick Haghs The cosmic Watergate What's known and what's covend up Is the focieral povernment embarrassee by fa own

97

The Alien Almaneo A guide to UFOs Inside a flying saucer sibductee confessions, plus. Are you a human-alien hybrid?



By Linda Marsa The Leringrad Bible High-resolution inagos of the workd's oldest known Helicrew teal will provide new facts about the witing—and ocking of the fibble



henomenon

By Bob Berger The creation of one man this universe mity seel only in he computer

139

The Omni Arcade By Bob Lindetrom and Soot Morre The lastst computer and video games Pickies that glow in the dark

146

Star Tech

148

Last Word By Marry Mores Questionable answers to aga-old puandanes

82

Flotion: The Deed Lave You By Vonthin Canol After car over: Anthesi Phase is included in a mystericus auto collision the quadry discovers that even mestame insurance ouverage will not guarantee ful prelacion from a wingel/ inclure but the has effective wear of particular benefit

FIRST WORD

BEATING THE AIDS EPIDEMIC: Better communication between scientists and the public is key to deleating the plague

Dr. Samuel Broder is the divector of the National Canoer Anstitute, Scaled In Bethesda, Maryland



We are beginning the second decada of a plagac, and his hauming milliotize were marked by the San Previous AUDS Conference and those who lave AUDS and those who lave AUDS and those who lave and those who lave inter expernessed an astorialing display of new knowledge

The San Principop ophilarities taught as three threps. We can active our public health intertival will can develop infective oruge to three disease. And we can develop a subcostful vice ene or multiple viscorials. Never tables, the path for defaating ADS and inter and it is not who aut balance and contrad chors.

least in turn to avoid 800% regarding source and the crimidictors we face. The Joans will have a set of the source of the source have a set of the source of the source and sochology, and we will contech to a three a reflective source decides or source in the past two decides or source of the source of a source or source adduction of the source of the source of the g and to the the source of the sour

or even had a verking vocabulary of assuma? How many young bacple sum actively enclaring at a choose assume or clinical insented and appress, there were powerful incentives for bright young pacipit to become stack hadren and lawyers. Wail were he incentives for our brightest young pacipit to become to he incentives for our brightest young and to be reader have?

The complexity of conversing in the language of bosenics in to how a set of the set of the set of the align of the set of the set of the which areas of intellect and fooling we have caused to specific on the set of the set of the which areas of intellect and fooling we have caused to specific on the set of the s

Are separative and concerntion, last the concern reason of the by Snow loars giver nave? I thread and up of the nave? Thread and up of the contrast and noncertaint with Islad on y internally to thermanive Do the help their with Islad on defasting AUSP Probably no Three was also accesses yange from both of these graups With the angue help science defeet AUSP Community no

One of our meet upget probleme sold table young beeple go into science. As a sciency, we may be in away of science in caman contacts. but we still do not give a high encugh paintly to the nurturing of young scientifist. The surpress pandems that we now call ADS has brought time too mo stark-relial. All the boginrung of the ADB offsits, we ceution tot this datupg young scientifist we think anough young scientifist.

to respond to the desette. Only a handful of scientists and clinical researchara wate extended to bean to stem the fide

These are other ponisequencies of decisiong lateratory in the latgrange of decisiong lateratory in the latrational strategy of the lateratory of the other popular decision and lateratory of the popular lateratory of the lateratory makes the lateratory of the lateratory period lateratory of the lateratory international constraints of the part of bosonisms in addition, the part of bosonisms in the relation addition and the addition of the lateratory addition of the latdition match and exercisms to the latdition match and exercismed to the

²⁴ Hair cases outpoor those of draw poperties are leaved to great great the service of the science (and you have the service) of the great the science of the science (and science) and the service of the science of the science of the science of the science of the product with market of the science product on the science of the the sci

Beck to C. P. Brow and the insuesr related to the vocability and grammer of the language of socience. We insult find a way to speak a common briggings of sotance, to do all that we can to anhance communication between socientals and nonspectratis. Can we defeat AIDS? Yes, Will we loge our new? I hope not ED

The voive expressed in the addonal and the personal views of Dr. Broder and not necessarily the views of the U.S. Public Health Service or any offor opyeometric agency.

OWNIBUS

SAUCY AUTHORS it's not easy for writers to phone home when they're in the field looking for UEOs

the rocky coast of Marre 1 and seep my trends entertained for many rights not with short stotale after the next ' The speaker is the late J. Alien Hynek, conlogy He understood what we at



Onto hape to communicate in real, for their matter-in order to E sun this spirt that we present Pamela Wentroub, the needed

bored by us all Though Weintraub bergell does not three that LIFCs and extratemental in ordin she beloves that, in many restance tenes "Pondaring the unexplaned "says Wentraub," opena in yothis in our despetal selves

> one is writer Depnis Overbyk, whose story (page 42) de-INCIDES NASA 5 Search for Edga-

ternetral intellegence (SET). Overof Longly Hearts of the Cosmos (Harnor, Collins, 1991)

Patrick Hunghe | What the Govemment bant Serving About LIFOs," page 90) writes about the

> the past decade-the appearance in Briesh comnelist Dava Sobel, forcent UFO mvs

project research for a book about the search for alive life.

Also contributino lo Orra o sotciel LIEO insue is Thomas Mo-Planetary Society on Itlesoghopal association founded by Carl Sa tratomestnal intelligence and Schapt: The Naxt 25 Years (John

On the lighter side of UFO into authors Dennis Stooy, Jerome Clark, and Paul McCenthy have tormine whether or not Dmy/readers have align games

Finally, writer Richard Broderick completes our UFO repertore with a piece (Arts, page 28) on Green Men which he "glokked" white in a sports bar in Rr Rud. "Anyone expecting to hear another version of "Proud Mary had left twenty minutes into the set

the great beyond meanwhile asaposale editor Sandy Fritz and writer Rebecca Nomis tell all about geostationary satelites ("Parked in Orbit," page 1200

Winer Jett Goldtern (Mind time and others. Goldberg is the

Diffic kinnensioar Brits Fruchtman prvis us "Freedom Trail" or nace 68. His recalls a croup of Germans" save Fruchtman whose Wescable Art The Body Ammentivell or this writer DO





VULKA KEEDA

AND POSICIAL STREET OF CALLS

THE CORPORATION

Apple Gracophe Schemeshof the Spurite Entry Rotein (Jacon Charters) David a Merekon Schwatzlert

Lettery J Crooks 8. - Ally seasons litery - Macual Conductor Trust the and Another state

and the second second

Sec. eres

6 SPECtropies Dr. Reve Drifted Art 3 heurie Heature Aust Art Dr. Cotters Steptim autors: Destroit defeng Art anti-Heat Steptim groups and Pasta Protein Steptime In Step Cole Autor Pasta Stephenika Stephenika Art Days Merie Robertika Stephenika Art Days Merie Robertika Stephenika Art Days Arter Robertika Stephenika Art Days Arter Robertika Stephenika Art Days Arter Robertika Arter Arte

ACMERTISING AND MARKETING

MINISTRATION .

Light processing and a constraints of the second s READERS' WRITES Of wildemess, insects, and the high price of random numbers

Stimulating Reading

Time a subcertaint to Octimi and reaching and the magazine has been stimulating and informative broughout meri-series name been been streamed and thought procedure material and thought procedure materials and thought onconter material is techniq. Your publicity on a the leader in all field when it contest to providing scarefter information that the mathematicity.

Patrick M. Liseruk. Elabicoke: Ontario: Canada

Generating Expense

Norman Doening Valoaraeo IN

Bugaboo

Taken body, sakigitud and depoported to also the First Wirst by Edmard O Wilson (Septimizar 1000), the also in alsomology matches and the also in alsomology matches and the also regist the lumar to becure your vise of the control conclusion. Here is the past experiment accurate and the past experiment accurate and the finamen Nature which just about me data all of blocor philosochy and surtain alsomology of Allikon admits the bage can site care of themselves.

> Frank Ench Smithold Pl

Paradise or Progress?

Many thenks for the article "Lost How zons" [September 1980] As statud or your cover, these particlass seem doomed to be lost or irreparably al-

tend (im concerned hut as known oil and menet) assess au daghedot compensate and governments will avoid us nothing, rate competence notational ring, to tend, mina, and explori those measuress. All long all we put economic growth and means presperty tohow at elle tentimue is chineg encoder. For all elle tentimue is chineg encoder. For misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the misce versit the tass of a separation for the task of the misce versit the task of a separation for the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the task of the task of the task of the misce versit task of the misce versit task of the misce versit task of the misce versit task of the task of t

Cendy Harpan Ashland, Orogon

Thank you for your motion on assigpointing providence A is Maximission? I were personality whatesald in the portload by Hawaken rom fronter As two storing whether and the second and the storing with the rest of the world, are offer However, it must be word, while of our personal for an able rest of the world, are offer and the second dependency on oil Many people are unawers of the pooling that work the tas foreign to use the methy with the tas foreign to work to personal calabia are fully.

Myrlin A. Hennes, age lourteen Kula H

Input resources of Alabels of Arch Feltonal Wolf Feltophys, there was also end interpeting wind interpeting states and the analysis of the analysis of the input of the analysis of the analysis of the peting the cables of the AdvMP cables plane in the lates the analysis of the plane methods in the AdvMP cables plane methods and the analysis of the cables because of a 30 methods the cables because of an of the other

Arctic Slope Regional Corporation Benow, AK

That Sinking Feeling

I found Mind (September 1980) fairly amusing because I have long said that people who are afraid of being lonely

STARS

SWEET NOTHINGS? . Here are three reasons why E.T. has not yet phoned Earth

Winner have by set and not form set and a dealer in the set and th

Radio setronomer Frank Drake made a valiant effort to ansere this quoteon by presting an escucon to estimate the probability of the arrange nour gatowy. He broke it down mto a sense of dispos Winat are the functions of planets ascand a star? What are the odds that life will ascout on one of those planets? What is the loadings of the set planets?

Taking head. The search for astratoreactial kin, says Thomas R. McGonough of Cattoch (right), will yield an enormous payell, even il no aliens are actually found. artier When see optimitis play our endewske rote his Carle excession, we get runnbers ranging ham howsampts to million of lakintelopical excessions that our development failer numbers. They get approve have numbers. They get approve many area Ultimately, the bundian reads on the thoulders of the optimity to excess with year have not yet discovered any proof of tie on other works.

To me a Caffects expression to the electroner and constitution of the Planatary Society's Search for Educatoriential Intelligence (ECI) program. He mail appaining the second eff. This is the custantian hypothese. Fails of the lot Star Discesses (across the the custantian second eff. This is the custantian hypothese. Fails of the lot Star Discesses (across which protee custantian) and the analosed cirred context with printice custantians in order to avoid contaminating the cultures Inthe semigration of the custantian and be custantian in order to avoid contaminating the cultures in the semi sport if the parallel that of the avoid completent suite as all completent suite (in suite custom completent suite custom custom completent suite custom completent suite custom completent suite custom completent suite custom cu

Imagine we balance to be not provide tableco. Very were Weller an yaket group of neuro-month and the stand of mission and the stand of mission and of a thousand works. Our and of a thousand works of the standard by galance standard and the standard by galance standard and the standard by galance standards and the standard by galance standards and the standards table internation with other table internation with other table internation with other tables and thousand and an antibastic constant and the standard constant and the constant of a standard plance. Standard of the standard plance to a standard plance to the stan became aware of an aliver previous error cavitation would change, juit as Papua New Gaineers polluted by the outside workd now laten to rack makin; watch TV and read The New Yorker

Accord population and a set of the set of th

It's also possible that a wink here to more relevant is a band the average human has in orts after a feer million preve of evidtion accelerated by their periodic engineers, they may have an enlaring once as approvid to core as out as to the air Mink sould they larger that Mink sould they are the the source of the they may and been empty and been they are able to be counted and the able to detect their crunts are ables to detect here latted

SETI has responsed a Pandonis box of questions, but at Mast is chiral the possibility of answers. Throughout hedror, every time were turned a new kind of Norland aurpress Solide a continue with the SETI search. All of Norwith the SETI search, and indexed bodies rever before search by the marb pergal. And all body, we may find civicating beyond our widded therems.

-Thomas R McDonough CO

LAN

BREAKING AND ENTERING. Did the government confliscate hackers' rights in its raids on computer crime?

I tokisci like a soren trom. The Untoxichates Cm. March 1, 1980, agents of the US Securit Serve Jackson Genera, a trans Computer games menufacture in Austin, Tamas As Jackson website in Science James, and the Security of the Security Security to a Security Security Security of research Security Security and Security Security Security of research Security Security Security of research Security Security Security Comparison Security Security Security of research Security Secur per – mithr of the labilitizity successful Joban 3-33 programand litenced n.part by former Apple who is do Server Normer's, a number of proteinent hackers have basede lapother 15 ofer based Electronic Florida-Foundston (EFF). The EFF mission not protect the constructional right of comparts fraining against which Appor sales as the frequently floghmale, often unsubcasted, also sametime laggin constrol of goameter laggin constrol of golands.

low a writer and Grateful Dead lylost who has become the voice

> of the EFF "our pl is to civitize the electranic franser"

Characterion have cases en on have cases One is that of Steve Jackson Gamaa, in which foundationhired atomeys Hewy Silvergiate and Sharon Backman are trying to determise why the Facts raided Jackson in the first place, since in charges had been field at press time. Steve Jackson Games is In court has Nadori old not parbiopate in the that the case against Neidorf was dismissed and charges against him were direpped Why was the case triod in the first place? "The government dicht like its context of Neidorf's electronic magazine." says Gross, "so they were trying to tair him with first?"

Despta the EFF is role in the Jackson and Needor cases, Kai per cautoris theil it is not a gain variated hacker defettes fund "Una/Intransi scores is not scrething wis spotwe of " he awys "We defend Needor. For earning, but we would not have defended Reggs. "The EFF is now developing onteria to determine what sots of cases the foundation will take in the fund.

For its part, how would the govemmenti answer Kapor's charges of i ghorance and excessive seal? We of respond to that in court " says Assistant U.S. Attorney Tim Holtzen, "which is where weld have to "

Rapport and the LFF are set lower in pits the loading uncernance to backing another with disedu, accurtion of the loading accurate of computer creates among here the San Deer Lass in the manatism. The LFF has peddyd to of acguid actives and of the satistic global actives and of the satistic global actives and the lass in the satisfiest active active active active active satisfiest active active lass active active active

The only ours for the malady they conclude is to help bring law to the new formar and to light for computer users' rights

"If not us," they ask "then who? --Bill Lawren DO

Who yi goome call? The Electrocic Frontier Foundation delords hackers ganut the incurations of setzealous computer criteslighters from the gooversteed.



The rack was handly an isolatedirected if two manifest latter upour than autopoor of a huge footoratin was provided in a enforcement agents awapt through name maation sign bave of through name madown a number of electrone buletin beards and contexating 20,000 achieves dates

The Jackson raid and Operation Sun Devi are part of a concerted government effort to crack down on computer theme. But the raids have computer hackers seeing red Lad by multitellowers computer maken Mich Kanot, in fact, a target for investgation. The incursion says Beckmain, "to just the type of feiting anposition that the Rourth Amend-

In the investment the EPF has head hear which could benefic stornay itery Gross to defend Cong Nactor publisher of the hacket magazine Phrack Headant had been and the store of the store and the store of the store of the late board, information on the work and the store was that has information had been lingsally liked hom Bell South computing by hadnes Petter Riggs Jake Riggs basefield

NIND

WHEN MEMORY FAILS: A relative of PCP and a drug similar to cough medicine may protect against brain cell injury

In the annals of nocicity is the boot known as RJ, may one day rank as a hero affocia unused case manifestion that the point in the battle against should Alterment disputs, and d'hr of chibillise caused by horive coll mpy in 1978, as a result of complications following bycass surgery, the ratificat possible whole suffered a sudden loss of bloost to the most of the surgery of the surgery by the time and the suffered of the most of the surgery of the surgery on been memories. Although the 111 KD was not impaired, R is way table to entermethic exercise study his brain Instead of finding ensame damage. They don't do the ouse of R B is therefore the set stryleason—here fram one obmater wata—erities CAI region of the high company, a part of the brain suspected, but new harlow proved, to be involved in momory. "R B was convincing evdence that the high control was earlier to the high control was

The answer may both at the alchemy of memory and its catastrophic loss are closely related



to gistamule. Glutamete blockers could prove useful in treating devestating neurological devestating

A form

may be caused by

esting

loods high in

recition

occurring even two minutes safeer He leved in a foggy blur of disconnected conversations, laces, and annastions

A battery of psychological tota administed by neuroscientota larm Sourm and Staut Zola-Morgan at the Vesatars Affers Maclad Center in Sim Diego documethod H 8 to confider. But he source of his biorgen malody in manod unincom until his death in 1960, where Squite, Zuie-Margan, and David Amaral of the Sak heighter were permitted to processo This is the contention of Demas Cho. Stantista Weatcal Bichard Insurescipititat, who studies the implications of grainmatic in nerve cell input. Clubmits excitatory mesages throughout the torum, react and contention of the mesages on the software with excitaories in the torum and spani ound or the torum, react and contention or in the torum and spani ound or in the torum and spani ound outputs, such as the NMDA subtope (name after Nimethylaspectra used to detect three), it is cause nerve cells in cit on to In but to respond more vigorous ly after a period of interes firing. The listing change, called longterm potentiation, may be a way neuronal memory calculat are altiened by exercision.

But Dhai has Tourd that if NRDA recognizes are floated with right consolitations of glubmails the transmitted can be at destroyer of neurons. Calinatity, when gradity outside amount offschoosake another and offschoosake molecular pumps offschoosake molecular pumps offschoosake and the state material stat as it accumaters however, it has qualitate molecular grads. Says CRo. Qualitation may sign. Says CRo. Qualitation may sign. Says CRo. Qualitation may be difference and several molecular based based of the self-destruct.

Trades clearer where sould are counter only of R B 's way speche damage but also for brain damage resulting frammas drawma, have results and the source proven remedy for merio call intry, drags that will also the nontrain daman wheet by blocking here the source of the source research and the source of the source of the source research and the source of the source of the source research and the source of the source of the source of the source research and the source of the source of the source of the source research and the source of the source of the source of the source research and the source of the sour

Among the odd seasonment of prospective transpers now being leaded, Merck, Strap & Dohrwis compound MK-801, a close relative of PCD has shown the most powerful protective coepolities against subcontail mysty Andher unisedy entry in the stroke drug sweepostakes of Hoffman Lallo ches deetrophan, a compound semilar to cound suppressents.

Investigations are awaring resuits of human traik comparing these and other compounds should gluarate thosaker drugs prove sale, hay may also be casful in invasing many deviations neurological deseases it iso, phteert R.S. will have full bahind an invaluable legicity.

-Jeff Goldberg DO

6 ONN



THE CLIRE

Researchers say a nonaddictive painkiller stops cravings for cocane and heroin

breakthrough in the treatment of ociale addiction. Preliminary rely catented as an analouseeffective therapies "Of the thirty

Getting off the decain addicts provents melda early reports on promising.

addiction, Euprenorphane is one of the treated with director of the civil suprementation of conclinical rehave no search at the Nation-

> ndone-a habe-form oraly in outpatient proferrol ra affect

switch to buprenor

than the euchonc stupor other opuse results only in mid entability alent aramps that compound her doge on if," says Dr. Jack Merdelson, director of the Alcohol dicts continues, studies of budependency are stoaking center stage in an experiment conduct colleagues traned the rherus mon After six months of daily closes of which have an immunory moneytable to infection with HW, the v those who exect just one drug for treatment with buprenorphme "he says "If a proves sate dicted to cocarre alone



equipatient to human cocurre shut became dependent on the druct

An estimated half million Amen-

Drup Administration approves by ed with heroin addiction for fear repently and NIDA is negotiating

-Kathleen McAuldia DO

EARTH

WINDOWS OF OPPORTUNITY: Holograms give energy savers a new tool for harnessing the sun's rays

I toosarches at the Advanced Environment Research Group (AEIRG) of Davis. California, have the way, california, have ther way, califor workshot of the given of fluorescalar lights instands their weekspaces will be aveals with uniform notural light be having with uniform notural light be having the same listenbased. I thermody, thin this and given attets a new medium which to work.

The ceal of outdring mys to brighten interior spaces is not new Bocause the country uses half of its electricity for lighting, many researchers have focused on devising atternative lighting, strategies in the early Eightee. for exemple, David Pellah, then the solar buildings research direction for the Department of Energy (COC), commissioned holography appent Brichard Lan-Prese and leilaw researchers al the AERC to approx the taskoldky of compilologisms to harmess networks light Alter menty is objected in calculatheories and addied positices, the detailed of antho can't be related of the compilor toes, the detailed of antho can't be related of an orniciamatily apprendix with the DOE.

Though the hologeness ADIGO developed sends an attactive as their more anotic counterports, they are mode to same way. To create them, two intersecting beams of also light-rich a pottern in a thin sheet of clear gelation film. The partian bands the same right as they pass through the

the term seturation of the set

Eventually Philas mid often rough searchings might be use holograms to light windowless come with a natwork of 1 gar guide! That could save the form of rectanguide plant bubbles ined with loomoptic failure. This guides would save the hologation of color bases from a holgation of color bases where an indigent of color bases and the colorest save being index the colorest save being above the ceilings of iffices and down this workspaces

Despite the promise of holographic daylighting, the technoltopy wint is prefact acknown to the energy onus. The holograms cant store light as solar collector diverse dur, interns would stat need electric light at right and on overcast dure.

Several compares and unversitus have asked lan-Frese to test his holigation on their windows New the researchers need a manufacture to mass-produce and market the devices a proeat that the infrase may would bring their cost to about \$5 per source load a worker area.

But the best news: says isnreas is what's good for business may also be good for people "Many studies ray that the psychological weil-being and productivity of workers is enhanced by matural ight"--Dana Points DO

Calcing a See rays of the office: One day you may be reading this by the light of holographic

SPACE

RUSSIAN LESSONS Can the Soviets teach NASA how to build a better space station?

If the action the learn by doingr' allow applies to spanothem the Soviets are the only ones on Earth with leave here to build and operate a manned space station. They're bern doingr if for here decides, and they're issued through numeous breakstowns and methodtower if NASA engeners with to avoid nearing/frain learning the method we're n'the painted space have to exist build the Soversi can back them or them or them

This may not be easy Last sum mer, cosenonauts sicoand the space station Mr. (Posce) struggled with shredded insulation and a bally arlock hetch as Weetem commerciation answered at spacewalking report pbs

Some mays orlarges in design, construction, and mananance would be needed if Predomwere ever to be built. It was fortunated the discovery wasmade before the massive assembly was begun in orbit.

One NASA study revealed that MP compares quate well with the best than NASA plane to chiver Scientistic acalizaged the individual replacedable gadgets on the outside of MA. Then they compared the times that coeffortable had to conclust manthematics with the harvorsmails that hard hard hard manufactures at the dhards and the South evene retrint.

The Soviet failure In the soviet was in a line in the soviet was in the soviet was in a line in the soviet was in the soviet was in a line in the soviet was in the soviet was



the Goviets as Autors in the construction and operation of a space station.

ADDRESS OF ADDRESS OF

Mr. coulding

the low level of Soviet appool tochnology. "Touble plagued," they called it, as it such things could rever happen in a motion program like NASA's. Yet at the same time NASA was strugging with some conduction of an own.

Success of the maintenance requerements for the U.S. space stattury yielded the same dismall outcome. The applicated has in the main ter how reliable each component, was, the assembled thousands of them would suffer humdrads of breakdowns por year. Torching hait the crew to do nothing but with their of the NASA gear In fact, NASA more resisters that fiteation is going to be even more touble prove, than Mr Space engineers and the public with here to learn to here with it

American engineers have finally begun boking at the spectrum of recent Saviet space experience They are questioning entry reas from care rescue assisters and tokins to water purrication and toking technology. How do the Saviets of P

Last year a Sovel cosmonaut toured a mock-up of NASA's space station. He took one look at the shoing plastic window shokes and laughed "Don't you realize that floating debris will jam the mechanism in a low months" he asked. The American engineers hadn't thought of their. The comments lound and commentation for another hour

Same build, provinces are now the province of the step address of the start province of the step address in the research province of the step address in the step address and the step address manual start the step address and step and step address and the step address address address address and step address address address address promase and the step address address and the other component with the time appear. Each address and the other component with the time address address address address address the step address address

The Soviet have assembled and openated more than two doten modules in spece lighty perorent of all human space expenance is Soviet septembro. And over the years, Soviet high controletes and commonical have had to open with a string of ever-moredificult breakdown and interemt.

NASA plans to take on over grave challenges with no such expenses, just decases of paper studies. These can be useful, but there is no substitute for being here the recognition of these ecurate for NASA's recent signs of humitity in admosted grag there is much to being from the Soviets.

Sovist officials are writing to stare their hard earned space teosons. Now that IVSA has insulated the value of that commosity, it should take advantage of the ofter it just might built commozity, it for it just might built commozity.

ARTS

SPACE SOUNDINGS: For this lazz ensemble, there's more to music than old-fashioned rock and roll

with a message of antighton mark it's altogether possible rest of us That's how the authmzz"-a herd-to-callegorus mix.cl

The group was founded m 1986 by Steve Skipr a custored hundreds of sides of the planets

the kind of work the group per forms. "White diamo a lot of 'out boundaries of a particular musiname gives people an idea of what to expect from us-some cal the losople factor

is inner as well. The group's main coal to alter consciusness frough they music. White serve that use meditation, drugs or sex same mind-altering effects with erang aspect of projectedal co.p.t

Little Green Man plans from sev

Davis and John Coltrana, who a very spinitual musician, asso ing to attain onlighterment and his yearing for God in hearingsio ? brought here from Saturn by an peix3 in general however, the clan music usually has one me drone metrument," mays fiklar anangement that you find in Weet

The convergence of Eastern ly evident on "Nils Chundra," a ond album, Out of The World The number begins as a duet be the mena builds stendly in ten

Skiars "giggle factor" is amply depleyed on "March of the Liffe Green Men from the group's feat place Jazz From Mers A Mi-"March of the Little Green Man. and "The Voyage Home" this cut. opens with a bold guitar archain manage who a drawng rock-based number theo outdually mutates into "outside jazz " The place a gentie startall of notes

Little Green Men would of oroup hopes to lour the States

Little General Man: The from Mars. but the proup's ready from Man Inces are predated by LOM

ARTIFICIAL

GROWING SOFTWARE. Darwinian evolution may enable computers to adapt to changing needs

uman-entism computer programs that and onpanise, bug prote. and cuickly cuidated may be an endengined species. According to Al white Darny Hills, computers will one day be able to geter their own ever improving Schare.

Hide has append the principle of private of the Mark by public solving program alignment is house as agaptation. The detern is to code programs that ables probters as don't should have booked by the solution have to bolk the prime and the solution have to bolk of a the Three prime of the position or unmanifold minide of the Three and Charlow Department is have form that alligned and applying which are three to applying which are any witten by humans. More important, the programs keep improving as the problems they advo become more of flicuit.

Software that learns frum itemties at shardy new fract, it is the locus of the technology known as hourdsoc. For the most part, such writerial installigates techmaps sky and go gool centrelo has that can het dead ands in complex spekations. Affrida like on the other hand, user fraactions and allow for unsection reads. Such "omegane" heteron heds the premise of contrave as its can on a company.

In Hits sequenter, one of his company's computers used 65 556 processors running parel let (unlike standard computers equipped with a single control. processor) to smaller throughouts of independent organisms indeadrug simularitositely. These aralicial arguments were installated autrice algorithmic designed to ore allow the second second second taken independent second by soling "anthous second by soling" anthous second by solmechanisms of a second second second anthous were not as settle wire as their disavera

Bohware optimization was fur ther speeded up by the infoldtion of coexisting artificial parasala, which can force a heet pousation to develop new adjusted observations of "evolutionery" tegs, in which the algorithms improved as an excession of the evolutionery proved as mastacely they occurd output to mastacely they occurd

The new production of the ing artificial the reasonshift, his case as to constant potential of the set to constant potential of the rentry applying smiller technical to other applications to unitar many technical power and power assumated evolution as an power assumated evolution as an power assumated evolution as an to today as any does to rend technical to today as any does to rend technical to today as any does to rend technical to today any technical to technical

Mit aviabase and Thereira Mechemes Corporation of downline Namen Marsie, area of the Liferer of a settingal metality of the Liferer of lange to measurable approach to advance available call of the setting advance available call of the setting many people think of protocol are many people to the setting advance and the setting and the many people the setting and the many people and the setting advance and the setting advance and the people and the setting advance and the setting advance and the setting advance and the setting advance

Civity the strong Savvine in ane asparament negentions matheect, "metter," and even produced offspring in a search for She filted





THE IMPORTANCE OF MEETING ORCAS The guil between lip service and reform, plus mood food and microwave eyes

We had just boulded to modeling with some administration of the some administraworks and the some administration of the source of the source in the source of the sour



deprins than the pant blue whales we had seen the days before. The cross towering closed ins fecoed with each suffacing, and no one on our vessel seemed unmoved by the sight.

Whit whit can not be determined an entrance good income entermine many characteristic set of the logical can enter the set of the set of the logical can be not be a set of the set of the logical can be not be not set of the set of the logical can be not be not set of the logical can be not income where the notion can be not proper in the logical can be not be an enter the logical can be logical can be an enter the logical can be an enter the logical can be logical can be an enter the logical can be an enter the logical can be an expected of the logical can be logical can be an expected of the logical can be logical can be an expected of the logical can be logical to the logical can be logical to the logical can be logical c

It sn't exactly a solvress, whate watching, it's more the an addiction, and one that takes you by surprise. When our voyage with the Baja California tour group Baja Expeditions began. Molecular et al. You have to free pastme in part that may be because so meny wholes are threadened with extinction and the trought of not being able to see them at all is the requisite inspiration to go looking for them in the first place.

looking at water to

go whele watching

oculd possibly do

become a popular

Altraga percent environmentalité vertir fait à l'en riflete d'autorité de la construction de la constructio

There is not to any that everyons who goes on a whatwaching try comes intern an activity. Policical action, atlet all, a comptise human behavior, as cuncus as it is essential. But a concent can be that through involvidge and experience, then whele waithing may help bridge the out backwen to service and inform -AMX (BOVELD



MULUM



EYES HAVE IT-FINALLY

move into the eve doctor's.

with classes. It heat shurks

pattern so that you have the ochoes, the eye is other

His device, which may 131'F and 136'F to the -Carcine Nobbe

DNA EXPRESS DELIVERY

Genetic thesapy is the one these days but tricky business. Most purwithin a virus that sneeks up

Assignation can be correct- | a simpler sponsets They

Cuncuply Wolf's direct spleen cells. He admits there's just something spa -Bil Lawren 10 1930

TIDYING UP NEAR-FARTH ORBIT

space surk that wany spotted and avoided easily

debris orbiting the planet. system - a water sprang

catitation pollector is std in castsage or an array of Butmer -- George Nobbe

AT LAST, 3-D TV

Wrazałly abandoned by the film includiry in the late https://doi.org/includies/ base abandon a ocereback A Brissh inventor olarme to teve coasted the find threaternansonal tolevision cyto tern hat works with a abandeed TV

James Ashbay who heads the London based beta Gogo, where invertors and fermalears are developing the 3-0 television system, emphasizes that no special softeen or furmy-looking specializes are necessary.

"We found a way to oregin the sense ion of depth without interelocopic processing, 1 says Aalthoy He explains that a

WDP-like device innova a digital copy of a TV shoes or move, than encodes it with electronic ouces that send additional of the sense that send additional sense in additional discoder, while welfing the verwing short component the vision addition received tion poth without logical to som both without logical to

The primary drawback at this stage of drawbornant. The device car'l translate on-the-exi TV riso 3 O but must hist copy the broadcast onto videotype horizotases. Anthew be-



The idea ben's need incernation. Takington may soon reach or and reach south someone—in three dimensions

leves the device—called Deep Vision—will be on sale in Europe and the United States scimetries need year and will cost about the stress an ordinary totovision sot "It is going to change how people view feloristicn torover, says Arthory. —Basen Relation

Thomas Edison averaged one new palent every two weeks of his actual life

KIDNAPPED SLUGS

Speak softy and carry a big atox: and former U S preadant Theodore Recorred: But aone at motike baseties may have one upped oid Tody Sey absolvely nothing and carry a Life elug.

James McCintock, an inventibute social (julia) the University of Assamption (julia) and a second social Levina University of Choice (Julia) and Charles and Charles of the count of Astronomer and Astronomer of the count of Astronomer and Astronomer and Astronomer and Astronomer and Astronomer as

In the end the stugs are nothing but preamens, unable to faced while they are gropped by their kathappers "The end," asys McClintock, gets nothing out of the died".--Oliver Fultz

BUT MY MOTHER-IN-LAW'S NAME IS NEPTUNE

If the Hubble Boaco Beloscope were verso with encode to early a glenge terrosphi to catch a glenge of patient works and the hubble sphere work and the hubble sphere that below the hubble sphere that below the hubble sphere that potention many thready table of the hubble sphere that potention many thready table Manan bed the patient below the could even the sphere below the sphere that the could even the the decourt the tradition of the the decourt the tradition of the the the tradition of the the the the tradition of the tradition of the tradition of the tradition of the the tradition of the tradition of the tradition of the tradition of the the tradition of the tradition of the tradition of the tradition of the the tradition of the trad

The question of procedutes for norming new planets will probably be enswared in the near future "My gut feeling is that the (AU (Interactional Accountcal Union) will publish guidelines in the foreeserable future "new Marrin

Darak Mohaly, Ku general concerts y in London save that it is new primdon save that it is new primdowned becomend. The KU would recommend that discovering select a metholand has done writes and landous as entrals. They could name the glanat array has they wanted to. The save that would not have the starpo of official approval "--scored fitmeth Alem

A male spider s panis is at the and of one leg



THE CLONE RANGER

"Screeting had to be done " recalls Bill Libby, a locotor at the University of California, Barkaley

Itan two things happened. The lumber company ry wart out of businesses and the National Park Service toppopnised the lined for Redwood National Park Once the situation statis local tuber took secols from

A chip of the of block Security as standard

the base of the talkst tree in the world and secured cutergs from the upper tranches of the second talkst tree in the world. Today these cuttings are gradually repopulating the world with messile schood the asys. Loby

The organs cuting tion he reduced grant loss Loby sbackgrant, white he evends should land subyouting cuting and cuting youting cuting to the subtract of the subtract of the subtract of the subtract of the sublation of the subsection of the subdarks in Lippe and South Aneroda The lang of these darks at Lippe and South Aneroda The lang of these darks at Lippe and South Aneroda The lang of darks in got form at and plants in South Anerosa, which was never a nation babas for reduced.

Libby and sum about the number of offsping directly and indirectly sired by the hourtness but guessian that "there is increating and the hundred and feven than the thousand' in the world today "A lot of people around the world are planting indexectly," size Libby —Mark Sunin

You are tableat in the moning? Your height may increase as much as a their of an inch while your alway. The spongetite choice bottween your wintices and bottween your wintices and sources of them betaware the stackad clacs. While you see at a metaported Energitte Enight^o Research rup genn you ney ward to make a dop with a rich chosolate sibel

APPLESAUC AND LOVE

You are what you will That plathuos may take a subtle heat due to recensive by psychologista Bernard Lymen and Janet Waters of Simon Floador University in Canada: You are what your mood is, and your mood detections what you real

The respectfully and adds them to exact the and adds them to exact the and adds them to exact the adds them to adds the adds them to adds the to add the types of hod response they alk to the adds of the adds of hod wilding understand a both as occur on the steres adds the adds of the adds of the adds adds of the adds of the adds of the the adds of the adds of the adds of the the adds of the adds

Happiness soft foods
 We found that there is
 wey common agreement
that say anger is a hard
emotion, thus there may b

simulting about the activity of orundhing and clanching the teeth that would lead someone to prefer hard, crunchy tools when angry seys. Waters: "A soft errotion, such as happiness, might be more associated with soft food '

DOWNLOADING KING JAMES

Electronic Difference for the angle with up to disk presentence, but in Green Electron extensionly in file logit to cell these electronic hely books: A 4000 versiolit decreas graves the rights to book and gravelage to incredulute the King James Bible to the Chowin anglette controllate and gravelage to controllate the anglette in the UK workshop permission in the UK workshop permission in the UK workshop permission toon Carphologie

Up to now, Ricupt. Destholige University Procebandon's Deman Fobles calls a "sary lashback active "any lashback bibles, grategy permiand bia in unibor of manufactures." We work "manufactures." We work manufactures. "We work and that they don't alter the words Aberail if an amark to the file American blocks person, then a housing wester. The





EXTRACEDINAL

surrounding Leonardo da soulator etc.and shill cathepoed for 15 minutes alreep a clay

sense, according to Claurin apends be seen restance Erree-week study, a graphic

inflig who ackooled the suggest that contestants those who sized longer

Surroy advantages a strict ritems, emergency fire tohlers, and others who Stamp says, 'you may led

FAT FOLER

dacovered a true mrade na more effort than it takes

Albert Meer and Arthory eve Nadis | a certain time of day

When minoted at other actually lost weach?, 5535 the same results.

ten So www.ics later the body fat without desting should be taken for few of supervision. He adds that

that there is still no cauck for research is needed " pho behavior modification -Shorry Bakor

Emperor Who Ale the Didea





across completely in re-Improve recall by acting as reference cues

Scheb asked 72 Yale AD DATE

THE SWEET SMELL OF | found that unpleasant odors

exursts and odors-are be enhanced for example. their recall abilities if they -Save Neds

THE AMAZING

needs metal pres or plates

ers at Johns Hopkins and place made from a new alowly dissolve as the bone

that the plastic bone pins Englancheite will be devel-week to five years-so that newly mended bones will ked - Devera Pine

SMILE! YOU'RE ON **MAGE-ENHANCEMENT** CAMERA

correct, it s going to be a lot

of Rochester professor of sharpen blutted images in

Working with a grant from the Netschel Institute of Telkalp sharts old-bastepred components of a requirye to reconstruct an image in stead he has revised a cet of

In effect, he uses com puter modeling to unacremresults in a vasify sharpe pecture of what he calls "the under which the subject was "We fry to recover the organsi spere by methematimage of a mowing subject."

The main may be difficult mages of loanse plates on a strending politarily par. or window Tekalo asea no should not work just as well on videolable from security

THE BIGEAR

ARTICLE

Giant new telescopes will step up the hunt for intelligent life in space

Extraorrostrais seens to like JH Tester As a node, approximate develoat to the extended with in the unrease same assistance of the extended of the test sector of the present mean in their assistance with address pupple to Anstrements: Even is in, that doors that to the tabloid variety toom wating of phoning Tabler Something Key wan how up in present. An all applies the trained Subtro

BY DENNIS OVERBYE



Address and SCIENTISTS was available of the second secon

That faint radio tapping on the strenomical window would, of ourse, change the world. Alter ton years Tarter and her collesgues at Amee may get that oppertunity On Dolumitus Day, 1992 in California and Pustic Rice radio tolescopes relationed with special receivers and relations of white special receivers and relations. exemptions capable of amblemp beside of malors of natio characterial at occus interest on and with the crackie and has of the haravers for the unque signs of intelligent (the NAIA with the usual elegance has SEARCH stubbed thes withset attracteristic and usual haravers built attracteristic attracteristic attracteristic built attracteristic built attracteris

Generatives of Torners Tave and Torners to the up that and hard torners to the up that and hard torners to the the torner of the torner of the torners of the torners come amounts, it theorem to the torner of the torners of the torner of torners to the torner of the man of toperative to the torners of and the torners of the torners torners in the non-the toperative to the toperative torners of the the toperative torners of the the toperative torners of the toperative torners in the non-the toperative torners in toperative torners of the toperative torners in the non-the toperative toperative to the toperative tope

"It's an old question. 'Are we slowe?'' says Tarter. 'This is the first chance to take 6 away from the presses and the philosophiss. There are four hundred billion stars in the galaxy, the adds brighty. 'White made of standust, really common staff, in a universe filled with stardust, if's hand to believe that we're the only creasures who could be.'

Why disuid arians to transitioning to us, or arywee nite? Decayle, this is an easier chasper, and later than dropping by in person. A few colliant worth of electricity can been taster www.a scriters the pilaxy. The earth stef has been broaccesting news: of humanity is existence in the form of staty rake and lewinesin egration for the last two obeades. By now these ragratis have peried more them 1,200 Bars.

While SETI scientists do not rule out the possibility of discovering what they can balaged, "unreandad tearsmeasors from some other planet, they think they'll rule aomething time a radio balacon that is easier to deate. And the science or taxest trist avent in probability will be obtanet more advanced than we.

The logic goes like it is it radio technologie is the enternal measuremeet for the glassich solutio, then the human race hash solution wherewithal for a marke 85 years. The other membrasis are looy to have been there to locarize or millions of years about of the lightly about all, in 50 bitlion years old and in tui of those of years old when it is un and its entrainings, on when the food its where evolved form, ling ago

It is the land of reliability that the land of the loss of the los

In 1959 physioets Momeon and Geuseppe Coocon suggested that if extratarrostital divilizations wanted to communicate with one another, the



most efficient PHYSICIST method KENT nacito wayvons in the and sen gipsour, beckground colse from the C nal could be heaved Ling way UNDERS that paper. Drake sharted his so called Project Ozma for two months in 1997 he posted a radio telescope in Green Basis, West Virginto detect a segnal. Drake want on to rwett at advision thei-based on equation optimists like Carl Segan and Dosks himself have concluded

That was the beginning of the quest known as SETI in the intervening years only 2.000 or so stars have been surveyed, less than one-

millionth of the gaway. Lower level to be any that the weathers to alive have been like through to hind a mee, ways may any the hind a mee, the like the second second second the set in 1971 when it second with Bahado a unmer workeling at Xmms, and by Bahady Calumian at Xmms, and by Bahady Calumian at Xmms, and by Bahady Calumian (Interest Theorem - werk to orchard in the other theory to comb the costs outbed Calumian way to comb the costs of hysilian way

NASA is adverted to follow up on the Cysteps abuy were considered the Cysteps abuy were considered here and the Cysteps abuy were considered here and the Cysteps abuy abuy abuy the House and Cysteps and the abuy the House and Cysteps and the abu binking all ther emergence rerespectability NASA is search with lab Ein years and heat no parts. The group of abus here only and ratio telescopes, partouristy and ratio telescopes, partouristy the LDO-for date Areado, Parta De Area abus here and abus to the De Cystep and a Areado, Parta Reso, the automation and the De Cystep and a Areado, Parto Reso, the automation and the De Cystep and a Areado, Parton and Table and and abus to and ratio telescopes.

Another group contered at the Jat Propulsion Laboratory in Pasadena Californe, will use similar equipment placed on NASA's deep space tracking beleacopes to survey the entire sky for signals that might be acoming from between the stars or from fair beyond the stars. As program scientat of MOP: Tertier is in charge of the ion-delawed proved.

It was during the cultaw era in the two during the cultaw era in the two lawentax that Tanter get swept up in SETT. Passad in Soarschie, north of New York City, she dead ed when she was ugit that she want, ed to be an ancarser.

Torce suide engineering physics at Domain-the origin works in the design of the design

There's had pot at Dentaty was programming an eIP H86 comparent "The 8 was for abpols" are place but had an eIP H86 compare and the second and the second and the are Banage according to the second and Banage according to the area banage according to the according to the second to the copy is that conversity's made to the second the second to the according to the second to the according to the second to the according to the second to the copy is that conversity's made to the second compares and warrand to accord the second to the copy of the second to the second compares and warrand to compare the the Cyclops report to read. "That was the the cyclops are the the Cyclops report to the second to the second to the second to the cyclops are the second to the second to the cyclops are the second to the second to the second to the cyclops are the second to the second to the second to the cyclops are the second to the

Tartist learned saty on not to not have break wang for the Big Momet or SETI most of the account of the break wang for the Big Momet of SETI most of the account over backwest to be conservative. That is no posty in my soul, data moment "the Big Momet of the content of the one be bady out with the entropy assesses in France & the value go in which she and the conrectional assessment of the conrectional assessment of the content of the second second second second early rule Momet on the second second act to provide the second second second section of the learner of the second section of the second second second second section of the second second second second section of the second s

The bounty of nature is the biggest problem toong extrateressnel hunters like Tatter Besche he bilone of stars or other places in the galaxy from which ET's could be signaling, there are billions of frequecies on which they could choose to insurer. Moreover, atthem and in semain their fundament of elines contends would shard bole way hency in insequency, as opposed to natural faulds source as of frequencies. The commensuity for the source of the source source of the source of commensuity of the masks of commensuity of charge particular to the source of charge masks than to broad as from comtext welds. Which is marked as from commensuity of the marked as from commensuity of the source of the source of the the notif the source of the source of the the notif the source of the source

The the bid two years TASAn isosanchers have been tasking an opportunities future and years and a componential future and years and a componential and a second the second second second second second in the 7 and 00 heaturers of their second second in the 7 and 00 heaturers of their second for a second second second second second for a second second second second second for a second second

The MCSA wirestly a kind of supercompause: Every second that a radio telscope is on the er, the spectrum sinelyset will generate 120 million nanotic during its aix revolutions. By Club, founder of Silcon Engines, which is usating the MCSA for Arriva, says that with the incorrect fMSA secondary to able to examine all of the service before frequencies available to an oragamentaria in a tele hours methed of

spending a few years looking at one particular ster

The MGSA and/ratifies also, toaener, What days us of with 50 million humbers a account Days a comparison energy with a basis of a saturational and panet, we other data and the animal and panet, and the saturation of the sace of the need to bold for agritude that can't be proceeded by with neight proceeding data proceeded by the mainpanet to mer with proceeding and the proceeding data proceeded to the mainact to mer with proceeding and the proceeding data proceeding and the proceeding data proceeding and the saturation of t

SETI is probably the one field of astenomy in which Culters, forty-one and blind series birth, is not at a disadvantage 11 dark terword nearly blind astenomers," he says. His father was a physical at Received. 11 got exhonoring for bed/me stores."

Figuring there was no huber loca bind aptroverse. Culve shubed to diloca of vical on the incorpore and out a PhD. From Berkely on physics. He started begging the Arrise SET ingrue to give hum a job after meeting uit fante at a wedding and persuading his wilk, an occonsent and within to read the Cyclope report to im. The read for 24 hours stright. The was an antiourding document, he sight here been

there ever since, writing computer programs to search for aignets

According to Cutlet's an aliven "Hi there" would most likely take the form of a continuous time at some narcoufroquency band or e cetes of pulses. His programs the designed to nucconice either lend among the cosmic noise and conflueion

Our cases contractions only marginally wathin the bounds of detection by the SET system, adds Cultere. Earthy advectors the anticipate of the claim of the second sectors of the claim part and the Second sectors are some participate of the Second Second Second Second the Second Seco

To most SET papping the quest is to there or not the study is uncredition of there or not the study is uncredition. If y forgating papers to search " the optipares it to the given revolution." This registed SET to be present revolution. This registed SET to be present revolution. This registed SET to be present revolution. This read to be present revolution. This result is an employer, a major achievement in acceler is stateful A. Set as an activity the state of the set of the revolution of rev

THE SETI PROTOCOL

Lately a lot of people have been tak a secondly the possibility diet NASA & Of AOTH OTHER DIOLD'S search marks wantucky succeed in 1986 during the international Astroromoal Federation's (WD smaal conman in breakwork Austria sciencists. lawyers, philosophers, and diplomets attended a resiston on "Lagal, Polotection of an Extreterrestrial Intelligent drafted a protocol on what to do if a signal is received. Its guidelines shoulaird for any decovery should be connounced, once e signel had been verrhed, information about it should be the and public channels to all the should be sent without "appropriate international consultations.

The Internetional Academy of Astronautics and the International Institute of Spece Law approved the document. The goal is to heve it signed by the vancua institutions and individu-

als involved in or afficted by this search NAR mean-this into developed its own protocol for handling petrmoid decoverse. "Being NAR, we have to have a plan for every high "facts ways emiting," were usoes." The protocol is designed to mimus the character bits core atmosp interference, or avore, a hose. While people ask is, "You'd you the other people ask is, "You'd you the other search of the source of the search of the source of the

To begin with, both the operation of the radio telescopes-moving them from star to ster-end the enalvars of the incoming data will be comcould keep up with 20 million random numbers a second, the pein of the tedum hour efter hour, right efter cash much after much would be coamo. A human operator will make sure that everything is working and then go to bed. Upon reception or recogrition of e suspicious agnel, the computer will perform a serves of tests, checking the source of the signal against a catalog of satelities and other causes of racio interference, wo

star to see if the signal poes swely when it ansatd, and other exclusion that Tarter work describes in order to keep hoavers off guard. Only than will the computer wilks up the opendar, who will check egen to make sure evenything is working right and begin monitoring the surece

Finally, the operator will call a specall officer at Arres, who will attende serve the stor "I the other alle vertes the regnal, we'll notify headquarters," Tartor seys. According to her plan, the discovery site, fre SETI oftoo and NASA headquartets in the person of the essociate administration Applications would share in the offreal ensurement. After that, the techracel details of the discovery would probably go to the International Astronomicel Union's Contral Telegrom Bureau, which alerts estronomera worldwide to fast-breeking grents that need to be observed. "Noboda has signed off on t," Tarter edmits "We can melos a lot of plans in pdvance You can imagine that people who take responsibility for this will have strong opmons "DO



Two cruel Aprils ego, a swarm of monarchs-see-through ambar and howery black-wheeled down on a baby carriage parked next to a boathouse on Mockingbird Lake The butterfass landed on the beswawing tower of miniature flama Twenty Thousand Flags Over Georoia t from my bioycle on a trail onor kine under a table. But the returning mother's scream, along with a whispery stampede of retraating infanticides, made me think again

after that bewildering first incldent From Montreel to Sen Diego, kaledoscocec kamikaze strikas on ballparks left dozens of

bity by

smoother of pitiess sik

The culores weget't monache almarks, haratreaks, squedrone of from peach trees, wheat figlicis, catsilistome tanned into our ofteasmearing windsheids, appliquéero envine onlies orienzing themselvine in revolving doors, excision through subway stations like preing winos, beg ladies, and whores leven as, tandarly, they soutled them)-Uncle Sam mobilized the

rightened boys in combat gear gassed every butterfly-looded urban canyon, or else they shot oterrotus preioci-log divited or of July, in the parking lot of Atlanta/Fulton County Stadium, a olation of burr-beaded pueches machine-gunned a flight of angle wings, petri prescents, and red admirals The cerrison-If that's the word-was spectacular. So was the to mante- more

> from a wal ing lot To us, the dealerang tel-baline of a shahi broar. the entry biazing wardperactuting into orange and purple scrap

'it's for the birde," Jod-Maria said as we flocal of Okishome's 1.40 htt tween Yukon and Hydro "What's for the birds?"

oving myself a Tour de France com-

Damn it, Dancis, I seid its ike that old flick The Birds " Jod-Mane mountain blike i'd bought her, like some leggy Lygra-clad gal n a filovole Guide ad "Eccept it's butterf ies instead of birds. Jod-Marie hadn't been born

been at Duke, cloging the Beatles

did deserve some credit after all. if is hard to abry abreast of things tassels in the Cheetah Lounge five

ted cash and my savey about the world. I waan't aat some crusty old heeled, bicycle vegebond "This size, "I began to say, the

birds are on our side"-but a blobway patrol car swam out of the Imokey was deborar in his

he seid. "you shouldn't be up Une meant) To Hustrate his point, he told a story story and http://www.over.by.Guthrie.aetupon by a wheeling conflagration of mention their deaths, by yards and varies of belicement red chillion

like they'd been whooshed by flame-

Philipaines," I seid "You don't get them in temperate zones"

zving hules over the concrete, out on the phane. "This look environment to you, bubba?"

"It's just so hard to believe a of the moth-o-remet's partor, "but burch of siky butterthes can really kill people," Jodi-Mane said

mokey-his real name was Clay-ton McKenne-said. "A ton of and speeding Hell's Angels were probably safe, but that bisars and cyclists ware "playing butterfly rou-McKenne paced us four miles peet B Benn to U.S. 270 wheth we folinstant portheast to Matomos Wootward, Fort Supply, Forgan, and, eventually, the oxymoronically monickened Liberal, Kansas

Actually, birds wrons't our allesnot any longer. In only their past nite to twelve generations, an arbemusedly reported, nearly every lepidopteran apecies worldaide into its blood a sickening toxinhydropen cyaride-that no selfrespecting birti or bel would over want to teach again

And, the bug men said, buttering as if igned in common cause sheer beauty had no power to sharre or reform the little organiza meling the beasus out of us with a

Seven miles up the nauseating zecant mountain brides coastad into the lot of a dusty complex of ortider-FCD: OBICAL GREAT PLANS CHUEDH & damn tools say it's natura being beck," Lasmeer De Long told Jod-

that's an Farth-shoe liberal's two-

Lasmasr was a wide man, as write as his course examp as write as the GREAT PLAINS Filly vonte comic strp. Pogo But whether hound, akurik, gator, or bear old coot was at once andeening "It isn't nature hitpo back." he

souping up the ordinary with a who-

Later, our admission money in hand. De Long walked Jodi-Marie and me through his bare-walled moth-o-rama. "These are the right. Eightars of God's holistic ecological after-hours guy, so it had to be moths I begased for when going aralgion

We walked by classed in dio ramas shelterno peacocks, kinas. remain enhant mothe malete an awary of tender plumes hammer-

Nowedays butterily houses are in'-a dime a dozen." said De of-a-kind after Tim damned proud

T he mele knee-pele green and gue-seemed expectally resantennas were picking up that makes wenging solo over the tacking evening wheat

Jodi-Mano placed her handa on served to be free. then sand it was ing shut-eye Comemoning, our tenerary long since decided, we'd stoke out for Wolf Creek Pass, the

"Make camp here on my grounds tomers in days. I'd like the company" Havend taken in updomentel dialitie to accept I convinced her it was okey

eri on the parwas ground cloth in our thermoplastic tent

Despite the butter of the plague now in process, we were biking to the coast so that could become a star. She wasn't an

Boow rat gris finbuco anough to disfor Learnage De Long

Nevertheless, in the plat-August moren, Jock-Mana It's my dosting Devine Ba-

(The old

What was her some? Sally something Sally Rend

"I was fasthers Ro ones Ostuch

Okay dray What difference does that the distance between farm and cenel a natienna lunk, she told me the over a week. She is safeying down the in coloris legedosteria from Africa. Asia South and Central America, the pakty bed weres. Parts peacocks, tipers, emetald banded availantsis. G IANT pur-

They bein what she wants to tack. in sigh and hover exactly when she

Grand Carwon, Las Vepas, and Joch-Joch-Meric's even had begun to plass reed and strated, and more-petterned

> "Come beck stade/" boomed De Long burned right. "I'll break a'l my moth cesyour preity self for as long as it 1-1tickles your farcy, gal

I fought to catch myself, to recover

De Long bisthered on "My w/e ran off with a weather-nactio man six years

"A fame," I concluded for her

And, in fact, a supehorganism of

Jodi-Marie and I watched draftthough, we couldn't outcace the aight

over parking lots, bellar,

ig habits to such a degree that if could live on carnor

as well as plants We saw flocks of Britsh Corribervell peaking or moun reactives him Rite chied botton on the car-

leoidontera had become oceor-

the trunchart life cools of egg, celerpiter, chryssle, ima scavenged, preyed, and prew, no mat-

these mutant locadoptera did not die

Their biomass burgeoned like April loadzu Meanatrio, sikwoms, inchworms ont makes of cotemplar-were constra-

Among a stand of wind-nucleed as-

ful Upbeet Funike

A crash in the undergrowth near the burring

tree A ration of leaves my alteno aspen burst into

The buterflees shooping from the eser sources-had scand me, but more ages trutping up the moun-

Eight or nine in all, they were young ment and womcould tell who had glued to their by up to our right hiro, brue spers, British on whiles of version understanded species-so that they faces sparklad

"My God." Jod-Mane said (Theard pointed-"Dennis, they aren't even weering helter tops

I didn't say she was only berely when did have capes, hand-painted linen

Those are Manposa People

lodged between the spokes of Jock-

'Novi'l shouted, pulling it out and SMEDDING IT IN TWO Together planneting we code the

Springs Suddenly a dreamy cloud of snild scarlet, orange-loomed below

We were weening heimets, our chim eddyng, setome palete sky mounno scraps nostri-ticking quiling



scales ropied from my arms

Placks, Mondhans

Jodi-Marie and I broke from the silk have wrecked, but an unpaved escape on fairlines or Chicanos, so far as lane for runwary serve six-blood abupt-

struggi "Goup # Goup" She did I did We both did

ever faster downward, and when its provher the Manposa People nor the but-

said "They think the end has come and network is to smear three faces with but-

it's plain what they wanted-memory, to

"You mean they'dive left our bod-

Later, welland our brees, holding lentiess tug, Jod-Mane asked, "Why

Later yet, in a motel in Pagosa wrigs of a big crimition towel, pirouet-

The lound my new name. Manposa

Yesh, but it's pretter. And it goes

watched program about mutation inco-

We saw built files every Lite ocunity, on Aszona's yon, eating dead animals on

squares. Weyes of briter meetis blad all the desert ranches between Cortes

It was scary to pass them. You had

We stayed at Consare Pelace, saw a ed only and fed more than five tundred quarters into the slots. Al gave us a sackpot and a welcome ex-

I sould I meant as a chorus girl but

down intensitate 15, our handlebars lad on with water bags. Nother of us was



I was dreaming of show business." Jod - Mano raid. "When you anside up on light angry. "If it's a peep show you ward buy a YCR

only a loranly, wifeless tool So we stayed, and med to sloep, and

Later BOOM/ BOOM/ BOOM/

Dur after-the fact deductions told up shotgun at the panels in the motivoname a roof, blasting holes in them, widthe moths in his choremas (partier freed sored scraps of peluloid, and weight-



ann All I want's a look-see, gel len?

that what you've been dreament of?" Ha

Playground or some funky desert sainnal but with the man-eeting butlerflees of the dying twantieth cantury, we want while to take our chances.

It took us three days to bike the dry takes of southeastern California. The only lepidoptera we channed upon were singletens because butterflee care for the yucca-spiked desert about as much as most people do

In sity case, we did a for dinging a most White we hally neared transcation. The insteam fravouxy grid that a forestar to a Argeles, we find the base for tand grains consister. We upon row then dry in a mathematical team Dodgart Basham. You cough bear the traffic in the Holywood Fravouxy and the contribution fravouxy and the contribution of surface and an intertion team and the transition of earlier in Hewares and this routine to safe the tasks to an of earlier.

"Maybe you'll be discovered," I told Jodi-Mane

The pity was, standing with her on a balaony ledge somewhere on the black edge of Shangh-La La Land, I understood, boliatedly, the I wanted to discover her mine!

The bague grew worse Galaxy arms of builterifere-hordes of subparts, motis and seakhwake-results armotimed withing as a livel product of a line worst of L.A. strongs hou could not go cashed without seeparts on a carpet of wings or broating in a mill of scalar or excitation give provocation within of passal membranes records within of passal membranes retoring the wind.

There was also the continuous noise of inset husis calideing Air porethering systems cologed Swamming pools began boresemble outdoor Oserant copets. Unprotected infants died Streat people emigrated infand. The Hollywood sign tack on a filigree of moving cohols.

The President declared General CA informat disease areas – each contenting in the operation. The Environmental Protoclient Agency, with the California Department of Transportution, proposed gamps and beitopaties. Much the make, Issee the manyor, and the plan was descrading estimated.

Meanwhile, Joch Marie 'Manposa' was gatting nowhere but masked in all her oasting interviews—when, that is also ookid hack her way down the butterflychaked baulewards to her appointments using spotfole of publicity pholographs as a machete

Away from Bourthern California, the Marpona Poople staughtened every marriber of a weeking Texas oil family, the head of a prominent logging clam'in Setaffe, and a noh arms manufachurar and bis wife in Ohoo. All each sets in they left messages accurring the government of "commal instrension to the REAL NIFIDS of the people"

All this was going to even as the funds I diasumed bottmiss were, acording to a registered letter from my lawyerin Ralagt, stead ty-botting. Grooal crop battlos and tripic-dagt riflation had is great deal to do with the dopiction of my trass. but ac-bit my line-take

"Jodi-Mane," I said, you'll never get a job, until you find another stage name

September, October, November-will gene Dar Inet Chreatmas in L.A. No tible incut bleak Konsteau welk up but the stanstruck watmabes on Sunser Baukwelt had plenty of baubles, nove miga, and timak-been pretensions to make up for the lack. When the case Butterfly Aket was tevorable, I would not over to see them.

Jod-Marie's new sumame was O'Contor (in henor of a favorite teacher in Sovannah). But infree weeke thad landed her exactly as many parts—i.e., none—as had Margonia

Then, three Gays before Christman, she bicycled home from a long shot inlarvee not lar from the Pencho La Broalar pits. Io announce that she had been, "decoversel"

"Tonight," she said, showing me an address. "Two got to go for a screen test with a .a.Mr. Marvin Sabbaga."

"Okay," I asid, smelling a rel. Timgo

We took a cab Mr Oliver Luc Sabbata's side, had given the the fere We ended up at a house of osdar shakes and rushe sizes of the Topanga Canjon Road. The observations Luc sepeered angry to see me, but he ush and us nits is safetir piecked recen full of books and videocassatios. Then he with

"Sabbata's bro-terre," Josh Mane whitepered "Just look 1

"Name a film he's descind "

"He s not exactly a cirector Denzes" "Great Why are we harp?"

'He's a producer, a special-effects man with cash Ha's worked with Speeberg, Kubrick, Hidley Soot.1

Of course he has." I said

Sabbata s Ibrary was deny iti. I' poure logit (Bought with whit there a tim-solical diplome on your was?" The place feit like the sanctum of a laterplace feit like the sanctum of a later day opsium editer. Across from the door that Lus had santed by, whither door quetry opaned.

Sabbata came through it. At Inst all we could tell about tem was test to waits tail and sender and seemed to be waaring a numpled dressing gown and is, par of ally pajante bottess is budly in need of prosong as his gown.

Mervyn Sebbstal was less a man tran a paper-miche golen made up of, and animated by the thousands of

Behold the Spirits of Christmas Present.

Tis the season to give Courvouler. Perfect for placing beneath the tree Even better for sharing belose the fireplace.



face siso consisted of butterfliets, but bronze, golden, or fuchsia ongs, with feathery early-tone moths all over his

What sort of creature was this man? A human barno? A robot of butterflies?

or unresolvably most He paged He would not sit down. Pirtaily, though he

You'd do." he whispered to Jock-

It took a moment to reakzp that his accrossmation of speech, something

"Do for the tim (im going to produce "

My multimition-docudrama Houtle

Buterfles Gur lavely Mass C/Corvior

tached themselves, brefly undulated water then floated back to alloft again

Are you alread of assects Jodi-Ma re? Ahad of challerous? Alred of me?

manniou Orme for the matter, touch ing you-here "

i well, to alco him. I tred to grab the acreamed. My hands were full of sparisled-had psnicked into fregments, a

A door opened, Oliver Lux within it I arranzied to my feet. Parts of Salnexis, parts were ground like mask or brit-

I contribut her hand Dur cab was

county April again. Things had fellen evwasgone Itthooked our bikes Now and Sunset Boulevard or, depending on

Subbatal, who had reputedly pulled ing everything, or else the butterfloomaybe the more tikely scenaro --wore orcheolating him. The similar of Mosact in the works in Hollywood. Clearly Joch-Mane, a 'mind-tapping Poler Max-

A few freek thunderstorms gave us of Booked wallpaper to treeways asterole he'd almost given Jock-Manereinvoked his palent legerdemain, and

In fact a coalition of UN entomolopats and meteorologists reported that





Not be to be toom the mystericus ring of lancer magatrix at Bornetango, a new phonomenon escupitop crobes in the contribution of southerm flipsking. Note that will be marked to at southerm flipsking betwareness growing crocps, or eaching circular patterns in the factor. The phonomenia marked by a warbling bound and a moving energie (of).

Inside each perfectly drewn cercumference the comlise bent but not broken with its attill-powing salles swept his a multide privited patients string new clockwae, new counterclockwae. Veweel from the at netry of the ontels from compake patients, arrayed at moswithin mgs bull expective for example or as channed grant beads connected by bars and embellines with



Linside each drawn circumference, the corn lies bent, but not broken with its still-growing stalks swept into elaborate pinwheels turning this way and that on the ground, bull's-eye







solution can be accessed to an advance of the transmission of the

Previous pages. The import of a guest circle les in the fields of Englised. Top with and right: Circuius circle Societions. Below last to right: Calm Andrews. G. Terrence Meadon: and John Show Ten right: A hogo circle service through the waines of grain.





British Army photo of two crop circles



Grain forms ball's-eye pettern



Westbury petterns intrigue researchers



Circle sculpted in southern England corn



Crop circles at Cheesefost heed



Intricate patterns haunt researchers







Mysterious rings ettrect tourists and researchers elike



The mysterious rings attract visitors from fer and wide



Set of circles is North Witshire



Piewheel pattern swirls through the crop

Crop circles are like mouths speaking to us of the strangeness of things; they speak to hearts more than heads and to souls more than hearts. To explain them is to misunderstand







common itself apres out to treve a long heating in the English regrismed, makel, dirang legation to mit the Mol dia Again effect to oncleas there to media severnight. Beck them, punches levide of themes delinearing through the oom or of moving davids who come in the might and out the occess in might. Once the certainess some societyse again critical have been laid obtem contrilately but, they have been soon of the occestion, might resolution transfer been soon of the occestion, might resolution transfer been soon of the occession might and but the been been soon of the occession might once the observation of the occession of the occession of the resolution transfer been been been been and the occession of the occession occession of the occe

Although circles have since been spetial in parts of the United Soles Contacts, and Australia most have coopped up in an area of England called the Weesex Comdor or Weesex Thengle—a heropular that of land about 40 miles on each age in the southern calmul part.

Paring page: Ong onoise sweep through Brosh farmland in huge oncoler patterns. This page top: Severing peterns from or high Botom left Complex protograms in Website

N748,60-05/7635121





Pepuliti ranchi Pepuliti ranchi to the Bulkan to the Bulka mise anto the date in Progen the date in Progen the date in Progen the Angene I BB revelution: Angene a status of Leenin in Bulkgest (above)

STORIES FROM THE FREEDOM TRAIL

ARTICLE BY ROB FRUCHTMAN

Democracy was the crv heard round the world this year.

and the actions of many Eastern Europeans may brighten the future for all of humankind

TRANSYLVANIA

Isoppoor inv unted Dapas outputs a villager to heard of Parrises Compatibies Maximut, a behavior of Parrises Compatibies Maximut, a law group his dotted with mounts of they the metty thronder patterns—nets, the compatibilitatians of waything moustim—created a series of other series of the series of the series and the strends of a user robits in series and the strends of a user robits of the pattern and the entropy of the mounts of the pattern and the entropy of the mounts of the pattern and the expression of neurons of the series and the entropy of the mounts of the pattern in the expression of neurons of the series of the series of the expression of neurons of the series of the series of the series of the series of the mounts of the series of the serie stmeet. I noded: He ported to he view, "Oment," he add uning me view a enrowe path We view and though the invivilege. Heads suddeve favore, tennes support the horse cats, and over favore, the mess support the horse cats, and women grave up her miking to wait the sumusal programmer. I senied obligange, nodeling and wemy wheneves the bay the I moosely to amounce my notationally. I abook werey hend finus at me-An of missing stabiliset my arm translaw.

Ghreey-Right and I—speak with our exist and gasbasis Just a law months earlier before the Romonan people tope up and toplied that hyterical name, their village static could not take decounted. Haid I maintened that I was Antend sway And I bey had sales the nike of passing to the they would have had to report the contact to the polog. If they had is a neglitic static work would be out 10 min to the static static static work would be out they had sales and to report the contact to the polog. If they had is a neglitic static work would have a static static

gome and go at any time, in any place. The peoof freedom and prosperity but they must first un-Faces from a learn the lessons of the past 45 years. Traveling Itrough these countries I reakes that for bellar An cid weekan balds out Europe once again Whether it takes two years or 20 years, ther future is with the Weat Gravers (halos). bars obbly on

apple (lop right)



on the outskirts of the most the world Consa Moà. The Assaulty at The Gdapsk shpyords OPWER right

we can't seem to make things work." says Waldek, shrups lit is difficult to tell. This country is ready for investment, buil there are no barkend for lites. Not enough people speak English. We have no

ment. In Poland, Gzechoskovakia, and Hundary, workers and poets have been chosen to ked

per To fell off the path-well, it is just not an option And in Portage a people forced to the adae

the raty Stalls are filled with years. T shints elec-There is a brisk business in overalla and protocpolice do anything to also it.

No one pays them any attention. Saniewski re-

Communist to a capitalist country almost overright year inflation was higher than 600 percent. There for visias to the United States. And yet, talking with nearly on the street-shockeppers, students, per-"literkee Poles are comanto and heroid eace ess) its prizers rebuilt their day from the ground





cs." says Danuta Shivek, proprietross of a photo newski what he sees for Poland in the future. He store in the center of town if just know it is going to get better " I sek her what kind of Poland sha paneion (about \$40 a month) by selling fruit wices from a recent part-recht hoarts a day, six dave a wards, I use what she wards for her chicken. That they don't work as hard as I do. That they live peace: fully quertly and not worry every day. She leans the transition to be this hard. You have to be a

Mariusz Malinowski, a filmmelker living in Warnew says after 45 years its not easy to returne your way of thirking. "We were forced to low upanyons. We must keen another way to understand of 1968. It is clear to invone who waits Carchoing, really. I'm afraid that this new government, doesn't know what to do. They are like a wrain willing but featly! Eventhing is barnering so quick-

With luck and help from the West, Poland may well transform itself into a democratic, economicalby the specier of growing nationalism and anti-

(Walesa, after helping to install a Solidarby-led govtil last year

palceble chance once from Poland into Czechoslovekia. The houses dressed Czechs lived basic right to apeak

their minds and to invest treely. That, of ocurse, channel in November 1980 when the "Weber Revolution' swept the Communists from power and made the distation playwork! Vaclay Havel

Prague in 1990 is one of the happiest places ten to other people talk, Iderally basking in the new share whe artists show of their centros, callin bookstores and on street corners, and street thea-

der Alexander Dubček during the Prague Spring time has come and cone, seeminoly forever. The only by the low with which the Czechs emprace

Yet even in Prague, which has to be the most astoundingly beautiful gity in all of Europe fives. that recludes Paris), our sreet the vestices of an by our standards and yet expensive for them. It is difficult to cart decent service in a shop of a cen-Walesa and the current prime minister, Tadeusz had much incentive to work hard. We protended

er told me. Their lobs government, they could Kosice near the border a crime

At a busiting Pracue calé a schooliescher Czechoslovaka is with the West There is op past still in the country queue Communism has

the only way to save Eastaute 'The next few yeats will be difficult

they houses and farms they have access to West-

ian capital avaiding the banks of the Danupa line the streets Arman, Cardin, Reebok, Adidae-Eastern block (the first was at Mosoow). The city suphons. No strangers to democracy, the hotest-selling T-shirt displays a picture of Stain



the solvit A cash Romeola (abase) 1999 5157 flack to stellues but the men's ideas may on the Atlant.

with the words Struk Tours 1824-58 print states simply, oo west Budgeest all

Of all the countries in Eastern Europer Western Europe, both culturally and ecmages are overpowering wealth kasury, sex, excatement Issuel Once Western stees were glowed into these cours

depest s trendest decs. It's smart sol a created aspensively in Italian, French, and Amoncan clothes They sume tailed "I Wanna Be Pach

Hungary is still poor inflation, as in the

tells "peace pens"-ballpoint pens made from the shells of Soviet bulletsshe profers Enclish. (For the first time tance World War 8. Passien is no longpast if you were clever, you stall oculon t earn much, but now I think it the future are. 'I don't know yet lifepe

with perisitiable goods-settle into the fal of Romana, We are crammed sor to



Sony Offers You The Gift Of Music.

firee free compect discs when you purchase any Sony home CD Changer or car CD Player.

When you choose Sony Compact Dec, you're free to choose the mulacitist moves you From herdinock to rhythm& blass, pick one of seven super sound Security CD Planey They need in a mony of your splot money plus the ocuport below indicating your sound peolesse choice.

SONY

THE LEADER IN DEGELAL AUDOO

Office applies to the coarchese of any Sony Sor 10 Desc home Desclockey CD Changer or any Sone set CD Payer four purpose or key sone active to be between 15/150 and 10(0) Propage to the set of the postmanical no bits r than 2/05(9)

- Mail this eccepton and a copy of your dated axies more Sony Gift of Music, PCI Bus, 1947 Terre Haute, IN 47811
- Package & Hard Rock, DTEVE RW WUCHWN In Step MEMORT Obliged in Conductor Advances
- Package B-Rock Classics DOILON Herway (I Powdat D
- Peckage C-Ency Listening JW/25 TP/LOR JL SIXON & GAFFUNKELBridge
 Over Invited International Control of the Internatio Control of the International Control of the International Contr
- Package D Sensational Soul MPNINGATE Midwald Love I UT-CR
- The Music TEDCY PENCEPGRASS Groatest His
- E-Contemporary Sounds, MAM SOUND MACHINE flyes of Inconnect chael Brillion SACE Strenger Tran Profe
- O. University of the second statement of the second sec
- - G Classical Pavoritas CECLE LICAD DHOAD SMPHONY ORCHES
 MODUCIDAR Baltmanned Pano Oxioeto No Difecamini Proposition of the Control of the Control of the Control No 2014 (2014) Internet in the Control of the Control

Note		
Address		_
City	Ster Zp	
Sup COMPANY	Date Transmit	
		ON



Although he usually explores outward into space, to unwrap the secrets of the pharsoher murmises, the founder of the Center for Remote Sansing has turned his technology into a beckward-in-time machine

INTERVIEW

atmosphere from studying a five-trousand year-old sample of Egyptian per

Protect of the however, with the converse of sky EHBaz. Sound is coded boost their could be the patremontal function. The boost EHBase saw models the embry as a corresponding to another coast discoversed under the Great Physical in 1584. Reasonativities of the Great Physical Inter 1000 discoversified precess of wood thes preveality discoversed boars in the oldest in

PHOTOGRAPHS BY RUVEN AFANADOR
the work! and its design reveals a level of technical skill rivaling that of the pyramids themelives

seared the priamber would reveal the beat armospheric conditions for storing the reconstructed boat it might confian a boat of its own, he thought and that precisio ar ancent ar

Accument to exploring coward net is easies, work in Rugpt B-like the second second second second test in the resolute of the measure with a majoridal second second second second measure with a majoridal measure with a majoridal powerhold torvis or other destructions a may like design to the we reaked that and chardrogic all sets and chardrogic all sets and chardrogic all sets and chardrogic all sets and the we reaked that and chardrogic all sets and the set and the sets and the sets and the set and the sets and the sets and the set and the sets and the sets and the set and the sets and the sets and the set and the sets and the sets and the set and the sets and the sets and the set and the sets and the sets and the set and the sets a

Che of a temp of rate chicken guerray of a temp of rate chicken service transport of temp of t

and American deserts, to study their formation before focusing on another dry climate the moon's auriliane

In a volume test of rescue sensory technology U-less function where the first manned massion to the moon choid land, what associate would be waiking on when they abspeed out of their space capcular what samples they should bring back and how they would calculation the absorbatic would calculate the absorbatic tion responses to the absorbatic applicant the internoview limit has a Standard and the carming the Steleware Apolio-Soyuz spacefigit And before Arriver Sadat's assessmention in 1961 El-Baz was sevenes advaser to the Egyptian president "Farruck is always biringing his expertise back to his native regen and applying it to inportant problomas", says a colleague "He's the ide al Episyate accented".

Taking with B-Baz in the Boston Unversity office, interviewer Thomas Base faced a well-see moral of the space shulte Columbia flying over the Red Sea

Omn' Why were the pynamids bail? El-Baz I think building pynamids was the equivalent to a WPA project or an

> Apolo space program The provantia would detraguish Egypt in rom exceptions each would detraguish Egypt in rom terms project. They prove the project in they provide the project in they provide the project in they even not to be repeatof Each proving in was a particles provide they terms the anticett Egyp bans would have intrationed the work quarker.

For three motifies of the year water his Nate backs you can't tam't out grant to people who come work for him the poil of notherwises and poil of notherwises and poil of notherwises and coultering on a people they can teel poul d under to back a county under to back a county under to back a county when to back a county when to back a county when to back a county of the on-end in the backanse have not changed of the do-county weren't Bill by alkee labor?

objects sealant, seal ascissau A Moden os histoling his hetelt hold acount his moon. Graund control particled. Inning his spale appeals had been hsocked by Masteria. But Worden was spalaring Egyptian for the benefit of King Faroux. Helio poople of Earth, grinding time Endavor³.

El-Bac has analyzed photos of the windowept surface of Mass which "looks like the dasket of my childhoog," toys the now naturalized American ofusen. From catelitie photos of the Sahara staff, hi has discovered wast eserves of groundwater and sol lipe tor fectermation. In 1975 he directed Earth observations on the Soweit-Americasu ply doesn't work. The pyramids would not be as elegant as they are. To finish their quotes, the workers would have filled in areas with junk, rather than perfect sources.

They couldn't have been proud of their workmanship, as you see on the many blocks signed with names of crews that made them. The perfect outtion, the "falcons," and so on

These were teams competing against each other, looining for ways to do the 30b better. There was singing and as and prefer to building these beautrial structures. We found similar markrings when our TV comesa began transmiting buil of the boat chamber forme Buil doesn't the Hebarenit was.





NOTHING ATTRACTS LIKE THE IMDRTED TASTE OF BOMBAY GIN.

who describes the Present Khulu as a

El-Baz, herodotus yeas a lourast who lery And Egyptens from ancaset times have been storytallers, the worer the better, Aloop comes this guy knowlog polting of the history, he can't speak the lan quape or read the writing on the welks motive for meking Khufu look like a typushing to take over Egypt, which they eventually did

Onry Where did the Envolvess cet the

they say in the desert I was flabber five thousand years. Out in the middle forms and realize they were durable?

Architects aller imhoteb reelized they ered the blocks with mortar providing a layer of white pleater to color. A pyr-Issisc billboard Excellent bureaucrists, the encient Ecvotiens left nothing unwriten They proved the suriaces of temples, obelisks, tombe, and clay tablets with their history. Because the histhese overwheimingly massive objects the Nile to be buried with music play. no and these avegone objects shinand pave way to religious technom

UNCERCURATE AND A CONTRACTOR OF A

Onny Where are the mummag? El-Baz. In the middle of the Great Pwastanding. The wind is so terce that ev- no murames from the Cid Kingdom. gross forberrs hundred wars old Adually they might be older by another four hundred years. Colleagues are com-A creat activity, impose, invented ing up with new date that push all Environments holding boots in their basis and or stops, that get smaller the hother you. Most mammas we have are three five that a symbolic boat for paraported the

the Pharach got the fullest treatment. Noers little or none at all. We've plenty of skeletons and bongs from fwe-thousandvee-olds, but no periest mummers

Deers Maybe Khulu's mummy is lying in the boat you clacovered?

El-Baz Oh absolutely If not in this boat pit, then in another. Khulu and the tombs. The bungl chamber for the guy ond ovramid of Giza, has never been found. The American physicist Luis Alvarez thought he pould trid the chemrate then those moving through stone That s how be hoped to locate the cham-His equipment ween't good enough Omo: Why were the boats called "so lar" boats"

El-Baz. Tomb peintings depict ancient

apul of the Pharaph across the sky? Two ney by day and one by night. Some ed to death or the journey after cleath.

ciants minds that they were doing to That's why whenever someone of notostables The higher in rank, the moral the east bank of the Nila but buned came back to file, you d have to cross El-Baz The solar boat, the one that's

ships that crossed the Atlantic. That to your backups all tha way I thought main cabin has two mome, mayba one ple accompanying him on his insurery to the west I climbed much to study threaded through title holes. Nale weren't discovered for another fibero. the boat together. The engineers who designed it sack among the best shipleft marks on the wood. This means the

LENON PEEL FILOM BANN CONTRESTINGTON FROM THEY CLOSE OF FROM INDECISION

a sample of air from the second pit FiBaz. To me the composition of the arc find in the pit Even if my calculations have this air without touching it? We had drif through two meters of imastone without contaminating the air inside the

those we'd handled on the Apollo misnerrs Soft up all the apports and tackof it as a morecoam moon mission. Ining archaeology with Space Ape technol ogy we were exploring a new frontian developed in the stone? As in the Appl right because there would be no chance to redo it. So we better be cov

we started the operation. We began by the middle of the pit. So we drilled one third the way along the length. We through six leet of limestone from a wooden scelfold bed localter with with a liberootic light source. If was oneupally designed to oberk for minute actors. The size of its head-eight and

Our most remarkable piece of technology was probably the selock around the drill 7 was designed by Black & Decker engineer Bob Moores, who name we had to drill a semple of soil without that would alter its composition. Here it chamber with the air outside. We kept sure so that if anything broke, air

moonlant supposition came from a solentiet in Boston who pailed to sek how we were planning to reseal the chamber after we were freshed cirling into It I named an epoxy ream and then she cient Equations did in the first place?

Omise What happened when you final-

ES-Bez There was no change in preswe'd done in preparation was useless onotice poly Waite trying to prove the place as the ancient Egyphane left d.

for the Apple astronauts On the moon technology We don't know what's in- One can make a museum out of the sade, or what shape it's in " So we con-

the curse took the form of a live desert beatle. A trying dung beatle here Onver You also published an article in meant that the montar sealer between the blocks was opened. We already had marks indicating holes large now we obviously had holes big enough for a large insect.

Owny What are your plans now for the solar boat?

El-Baz: I've supposed to the EAO that chamber and use our cameras and othment atmosphere, something like mittogen that will keep bacteria from affecting the wood. Through the hole we've drilled, we can install a TV camarasomething like the original we used for tor in the museum. Vastors will be able Its no knows whight late set over up to drept the patters back and forth to do You'd babe an official buy a thum the other boy 1 but I said. "This lant a over the boat, which well be lying in my, and bring it home to show the

ate. We already have one boat and I boat will look like, so why take it out of

Ono! To find out if Khulu's murray

El-Bez: In the future we'll have plenty the boat Wood responds differently

Onne Have you studied mummes? El-Baz The Boston Museum of Fine mies outside Egypt. As a student at MIT. I used to go there a lot. When you think of it as a person, you develop tromendous failow feeling for the oregiune You begin to think, "lan't if terrible to be exposed like this?" That's why Sadat ruled that the mummies of the Pharaohs on display at the Edyption Museum should be put back in their tombs.

Onny. Why are there so many mum-

El Baz: Bocause Corros Beener who taught at Harvard, was one of the mies used to be a big thing for tourists kids After it lay around the house awith 6, you'd donate it to the Boston Mu-The history of Equal close not speak

influent artifacts and took them out of the pounty. The beard of the Soharx is ferbt is in Gormany. The best obeliek So what some archaeologists mg// call exploring the past a fabulous purera if a n case of highway robbery Own! What technology is the best to

B-Baz X rays provide an image of

occes in the old days, you'd out up the we're pustern to do micro, nondestructive analyses. To analyze the ohemistry of mummrication, we use jonts and suffered from arthres Oursen Neterta, has write

FLBaz: Many tombs in the Valley of the Kings were opened early this century. appeared under rubble The EAD hoped that such equapment as groundductwhy meters and electromannehic magnetometer which measures disturbtomb, we discovered, held twelve of

Tako ntroduced Space Age technolof Nelerse's tomb at Luxot. These are gown. She's being prepared to most going, but it looks as if most of the dam-

Great Among your discoveries on the

El-Bazi Alter spending years looking at teau Father than removing it when conyears making field observations in the honest-to-God sphirtx standing there in ory, I was amazed I dicin't pet a lot of

Owner What exactly is the Sphire?

The new Canon E57 is simpl breathtaking.

to fact, the ES7 is so full of features, yet so fully automatic, it can turn any moment into breathtaking video

its 50x power zoom lens pets you in close when you're far away It comes with an attachable video lishs for beautiful color rendmon while shooting in low light satisfions. The 180° HextOrld" lets you crafting means sharp, briffiant color images every time. It even has a wireless remote so recording and playback are

Make your video moments more breathtaking. Visit your Canon dealer and check out the new Canon E57 Errm carncorder

Canovision 8

1 PLANE PROPERTY IN LOCATION IN THE REAL PLANE

FICTION BY JONATHAN CARROLL

Anthea Powell has a bit of a problem-a bully, the supposed victim of a minor traffic accident. has decided to make her life a living hell

PAINTING BY JEFFREY JONES

he most frightuning sound in the world is your own heart boating. No one Kes to talk about that, but it is true. In the middl of deep fear, it's a second beast pounding a gimt fist on seme inner door, desarching to get out. A lew minutes before the accident, I saw a line of grafiti written on a wall. A how residue below the accelerit, Lisse is this of partiti-method of a well a the method of the second second second second second second second second the method of the second second second second second second second the method of the second table second second

both lear and lasomation. It is my engine and constant remender. I do not want

I was in a burry to get increas form. If you ask rise why new, I can only answer, "Because." Because I thought I had to get them, because the clock in my can is always last, because I had to keep my appointment in Samerra, I knew the intersection, even knew the steplight as a slow one. It was red when I got there, red when the white Fist pulled up behind me. There was nothing else to do, so I looked in the mirror and saw the car, the man driving, He was wearing run plasses, which made me amile because it was nine at right. Was he amiling too? I don't remember. As the light changed, a bicycle came zooming by on my left adie. At the same time, the Flat sped up and fried to poss me on the right.

The bike was so does I was sure I'd hit it. The only thing to do with swe right, into the car. Maybe I was wrong and wasn't so close to the bite. Maybe is lot of things. I amasked the Feit and semilaneously heard a metallic crunch (and load become my right love time biowing). FIE DEAD LOVE YOU



Feeling a car acident happening and you is a latter, hopelass thing to it's occurring you're show dy b ng to regret all that es año

Purching the brakes. I samued hard get away, but that was only relied

ed, I watched the bicycle rider tast away up the street. I wanted to wring his neck. I wanted it to be is time. I wanted to run away an e a healthy car again. Car door siummed "God damn if"

an angry voice beliewed. The drives still had his surglasses on, but the lowing one arm up and down

out, but a sudden arrhythmsa of my as ligzer there, acared eyes clased

"Lady, are you out of your facking

"Could you just weet a minuto?" Un-consciously Ed put both hands over my part I tolt like a piece of paper being

"Wart? Listen, lady, you just about ok off the front end of my car. What

The sound of a service care up from rid and was on us in at Instart

For really the first time I looked up at

took from his breast pockat. Everything on him was know the pad, pen, the out hip. "And what wore you doing, pass ing on the right?

She was going too slow 1 had to

"She wasn't going at all—she was try ing to avoid the broycle. You win wrong being there. That's why sho hi w and that's what i'm putting in m

The albino's mouth opened once than closed tightly. He couldn't believe what he was hearing. "That's abeclute statisti How do you know what sho s rg is true

ecause I got witnesses for one and because I don't hear you deraise

Where's these witnesses?"

pie standing around his car, talking to

They all say you pulled out too fast and blad to pass her on the right. Due ous nove, you know likepsi, too and you're not going to have much

"i don't beleve you're fuderg belling

ma that" "I don't like your attitude, Whitey

and utility him back pools et and br or wallet I now a large decal on it to ofe, that ab

"Now, this is interesting! You reakze it's three months peet due? You got an invalid drave's license and a pro recisiess driving charge looking at you Bruce, Bruce . . Beetz? Thor's a hel of a name, You want to complain sor more, Bruce Beetz?" The policem writed at me. The albino saw it and I face looked like held swal ece of p

As soon as I got home I drew a bet ray second of the evention Bathe are a tart inc er somsthing goes wrong, I turn i tap. Her, hot, as hot as possible my hourt, but it's one of the low say that's too darmod bad. I keep the It should be used to being dropped into coolong water whetever as makes its owner nervous

Epoured in a lovely big dollop of co-const of bubble beth. Watching it see it a while about my one the engry white many

ing my clothes up, I gs blo A tow I ound inleep

pray and sad enough on first sight are ng Eastern

the only thing to do was swerve i<u>nto the car</u>

es off, and only then did I unders why he wore them his was along, Yal low har on the odge of silver, transpo ent white eyebrows, pirte skin. I don't know if he had the pirk altimo cyss. It was too dark to see them dea

to lie work appy which any bolic address of the trat human whitesces seeme ing him forward from the evening philips, glowing

Okay, what's the problem?" The pomen was big and burly, with a voice

The problem is she ran into my fack

Watch your mouth, Ace. There's a

I looked at the cap and trind to smale ea. My heart had gone back into ga ce, so I get slowly out of the car and

was pulling out from the light

evod to avoid him." Swerved ight into me, you mean."

Fuckts' A it's true!"

The poleceman gave him a dour look and wrote things down on a big pad he



a foreign city in the truest sense of the word A city of quiet, and anonymous on Trohily holding my hand was a littie how I didn't know an albing er red snephers and a red St Louis Car-

Bruce Beetz

Where is that?

He started to cry I sputeted ha But I really had no idea where we were servers have days I keep two curs in

I often fail seleep in the tub and haven't elops a fliw prekey tud tey bereath

I looked around the room with tired there among the whete bubbles was a hand it is always looded Not Bruce Baetz's Welcout touching it, opened the door My heart was agen

i could see the front bumper had been that of its big, real brother

A heart that shakes you like a free m a storm warns that whatever word you hold on your longue may be your last before you use it.

sible, tunny, the worst kind of threat

Sincle woman must take care of thom

my apariment paranoid as the sounds One under the bathub, one be that I know how to shoot someone rhit int against the receiver, as if it month

had been before I got into the tub) I class means quickly and aid my leads sions Nothing had changed alound and Tehrt on The pun under the bathme Then I looked in the tub Floating tub is a thirty-eight and heavy in the

Cocking it, I crossed the room and monoy

banging on my cheat's door

I walked on bothe through the apartfor sure 1 looked in every hiding place. closet, under my bed before aung Okm

When I was in the bathroom again a gemail The albito had been in that room when I was asleap. Glose enough my bathwate

wat from the water I was wind in

I pecked up the extension next to the sank "Aritheo Privanil"

oury you hit? The car in your tub? Me"

"What do you want? What were you doing in my Rouse?

You lucked up my car, Anthes I'm collected for that "

What do you want from me? What's mine. You owe me a lot of

fix Tell me and we'll figure something "I don't want it fand. I want a new

one, Anthes Buy me a new car and Fil

"I want a new car. Arthea

"Doo't threaten me. Pouce Lasmertber your name. Don't forget I can call people's houses. It wouldn't be hard hiding you I don't think there are too

He lauched "Brucey! You think legand three months apo because old cled in a per eccident. Strange compidesce, huh?

"Do what I say, Anthen, or I'll eat your fucking face." He hund up

I didn't sleep much that night. What white end took place in the new up-

Young Bruce Beetz and I walked the De Chinco-It streets-snow-white or out ows that scytted things into either light

Nothing special happened end

with each other because I seemed to know where I was comp. The boy when I lost my way or got confused

Jaugh

"Not et al. What is your name?"

"Are you telling the truth the smo?" nont "Yes, John Cray. That's my

Welson, Lincked across the bed and saw a book lying on the pilow a faw inchins every Too rervous. I hear't read anythe title through foods, monting eves

It was a large-format children's book with little sent but lots of pictures et comes to Earth to eat a little boy The story had a funny, sweet ending 1

dren's books. And I hadn't read this one there was very little conversition. But I in bed last mont IN COVING TO GET YOU

down and looked out the window What pould I do? Call the oolde and reaccident he was partially responsible

twelve hours was so cuckoo, why not a little boy in a black and white dream?

There were two John Crays and one ng Time enough to track them all down and see

first. The voice that answered was obviously black and not whom I was lookmore than just "no", so

Crawner? No. John Craw Lady John Terone Cray What kinds name is that, You got yourself a wrong number. Bio Bird " He laughed and hung up The next Gray number in the book

Forecast for the purist.

was answered by a brittle-voiced ald woman who said her husband John, had died six months ago

I dialed J Gray not expecting much Another woman's voice answered

"May I speak with John Cray, pinesn?"

"He's not here now Would you like to kasve a message?"

"No, I'll call later " I smiled and bard up.

After puttering around the apertment for some hours, I went out to est all my layonite restaurant.

Sunday branch at Chez Llovo is a nece way to spend seven dollars. Go here a few tries and scon they is grading you like one of the gaing and geing you free dessert if one of their line pairs is fresh out of the oven or you're looking seal.

I thad to sit by the window and which the ident soldwark traffic outside Since in was multi-formation the place was halt empty Atmost as soon to I set down at my cultimenty table. While the headwarter, came over and put a dmin, down of my cultimenty table. While the headwarter, came over and put a dmin, down on front of me.

"What a this?"

"I'm not supposed to tof you, Anthea. You're just supposed to drink it and be surprised."

I looked at the drink and smilled. It was a Aic but hocked on the side of the glass was a wedge of time my favore.

drink in the world, although very lew knew that The last person 1d told was my old boy/riend, Victor Dixon. Was he here?"

"Who sent it, Walter?"

"I'm not supposed to tell you that ether, but I will. The guy at the ber in the onest Geuther acket."

I looked up and raw a man at the bar, his back turned to me the fund dark har and wore a cranberry-red jackat with black Ownin lenters across the bottom it was show-offy but wonderful too. Vector Decor never wore snazzy clotters.

'Who is he Webu?'

"I don't know He yest ordered the dank and said you'd like it. Gree me two bucks to make it. Toocla-co. Waiter sauntered away whisting the song "I rave to in the Air"

Who was he? How did he know about ny soort, lowd dink? All the time I wated for him to turn sround I but a hot, away atone is expectision in my stomach. But he dich't turn and dicht turn. Prafy I gat annoyed weing He was mystencia and this scene was seny but I chn! He brog garres, so I went back to looking out the wedae.

"May I join you?

I turned and, triven aback by his sufden classimisa, saw only the straight dark her and avator sundicoses. No



he had a good chin, too. A strong, square chin

"How did you know I like isr with ime?" He took off the sunglasses. It was Bruce Beetz

⁴⁴ Neces a bit spool you, Anthree You, Noosa a bit spool doornagen na Doorna bit spool doornagen na Doorna bit spool doornagen na Doorna bit spool doornagen have been doornagen and a little when you doorn when to income surviving doorna how attempt to a locate and come not been and and come not been and and a little doorna how attempt have a locate and how attempt have a locate and how attempt have a locate and how attempt have a locate you. Anthrea "Weat"

He amilied shrugged "I have to know things about my people"

"Why am I one of your people, John?"

He slopped smiling. It was my turn "That a your name, stan't 47 John

"How'd you know that?"

My nard was shaking in my lap. It givanad it hand, mon relaxed "Boccuse I dearned you. I don't know it you came out of my dream or work mo. It'

He slood up "What the fuck are you taking about?"

"Where's your while har, John Dray? Did it go sway with Bruce Rect?"

He stuck his larger out at mo. "I stud and you! I know is lot about you, Antheat"

I shrugged, smiled "Bo our applident wasn't on appedent?"

He out the air with his triper. "We don't make mistakes. We're always right with the people we choose."

"Maybe Im rot people "

Water watched Cray leave, then came over

"That was a fast romance What'd you tell him. Arithas, you got AUDS?

I drank the last of the Ar and held up the glass for snother one . Something like that Ded you ever see hen before, Water?"

"Nope But he's certainly a goodlooking guy"

"You mean good-looking woman"

Weller boked truly surprised "NoT I am a champton at guissing who's who these days. You cannot tell me that was a woman. Anther, "

I noticed and pushed my glass at hm. It was a woman. She works hard at not being one, but if you look and laten herd enough, you can tail

"Top: "John Cary is really Joanse Chry Sie Iwas with andrhe live hanned Peter Hacket Potabily the one or its beyder hell neght Thry oge wuod bottoe atoms live that that have ve undo bottoe don't of them are old actionesses with o don't make it 30 nove the two of them of a good boxiness territying people into dong whatever hey want it is proftabile acconstant theme doot."

"Terrify like how?"



representative at the table balks. The suas Eventually an exception to the vestigate the UFO sightings over Firmond Waconard

The existence of the 17-member LIFD Working Group was revealed for sabilished in February 1987 to coordinate a review of the evidence for LFOs and the search for extratements the UFO Working Group exects at all To tion croup called together on the puthority of Phillips, a self-appointed LIFC guru within the agency," says Larry W

CRASH LANDINGS

searchers. The following five cases of contained an understable this foll that idence about extraterrestrusts. Although far from conclusive each of dependently clarined that bodies-

The Rossell Incident

itet it rad a flying diac of the kind passage of a glowing object whose particular interpretation When the material was taken to the lions as 20 minutes after the object itactive General Roper Remay, and E. The object had been moving slightly own assistant Bagader General Thom texts travel at a minimum of 27,000



SINISTER **VIEWS HOLD THAT** THE GOVERN-MENT'S BEEN KEEPING **DEAD F T'S** AND SAUCERS UNDER LIDCK AND KEY

The Kecksburg 'Accom'

Birm's year that the coveraged UFDs is a decidedly "Ke version of the idence of alien visitations and has for decades kept this knowledge from the

Donald Keyhoe, a retired major in the Charles Lindbergh With the 1950 publication of Fixing Saucers Are Basil Key

By 1990 the Cector For UEO Shid- run a number of local people pbin one of her sketches, Lev Toman instead intervieword norw 250 mond- served the parent descend in a

These who were und into the them, the bag woman finds a police likers Those who expressed an opin- gold, accm shaped object that emil-"You not watering lady?" he asks if its not of earthly organ. For one along the side of the object was here purported LFD crash anduros are after folding roturned to to original 962nd Rodar Squackon appeared on At 4 15 psi on December 9, 1995, inc." although no such object has

The Tex-Max Episode

many years ago (probably 1950, myest-(since deceased) had been flying an as Dullace, as well as Maco Jasser mpt) in a southeastery direction from E-94 then in the experimental stage, Marcel, who led the recovery opera- First Michigan, to the Cleveland area out of a Texas Air Force base when

no LEO information from the Air Force " hoe, but they were covering up the

against a povernment cover-up hinge ly 6, 1947, a large glowing disc was sheep reacher, who heard an explosion with attance wreckage. Days later the suble information officier at the nearby Roswell Army Ar Field created a servsecondry amouncing frey were in pos-

Shortly afterward, however, a retraction applicaned. The wrockage, officials known are reports that a thorough from the sheep ranch, of the main poredis; were several small beings who ded in the crash. The métary is serd

refused to discuss it othe netonal alleged recovery them

Neveds Crash

Air Defense Command radar tracked



THE AIR

FORCE KNEW FLYING

SAUCERS

WERE FROM ANOTHER

PLANET BUT

THEY WERE COVERING

HP THE FACT

during an investigation by W. Todd witnesses, one of short had been sta-Zachel who heard of it frough an inord at Nets At Force Bies at the the uncle clamed, the body of an site in the dosort to pick up the wreckaliun being had been recovered in top age of what looked like a fight sau

In the Seventies voteran UFO reod the case of the pseudonymous the spring of 1963 he had been fown "First Werner," an engineer who iblindfolded to a "hot and sandy area" Base and later of the Atomic Personal Incle much like the one Worrer went it was close mough that witness- Ground in Nevada, in an altidext Wen- described --Jerome Clark DO

ade more and more people have

If there is a cover-up, then Roswell ustilication los/keeping something un der wraps " savs Rouce Meccabee, a Studies in Mount Remer, Mervland "Asthat stuff, keeping it under quard."

Witnesses of the Poswell incident Friedman, a nuclear physicist in Friedenglion, New Brunswick, Canada, who so and other nationants "People www.told.tot.to.tals." he save. "no quals acting head of the Strategic Air Com. mand. 'I don't want you to talk about handled the bodies on official assignment down there, and not only with he that if he taked about this, they'd get More convocing is the lack of official

something plashed," save Barry Green

They were shown on oval object that in diameter. His particular rob, he asin the Exiting Bacile interviewed sected was to datamine how feel the sand At one point, Werner claimed, he had participated in a LFD recovery or soldiers had been put on a bus site, there he saw the "dead body of store the barrier During the exercise, with closed windows and taken to a close fort humanitie creature it a afor years Zentel recorded to boots the part. The solders were told only the who said that he had seen the interval uncle, a retired Army colonel. He nes- craft was something secret. Rancie is of the craft, where there ware "two

that it was shaped out somewhere So where is the papencerk? Where is the analyse? We just don't say it But Greanwood, unlike Fredman, is not convinced that Rewell represents the convinced that Rewell represents the conversed of an advantational spacecruit and its occupants. He takes the filter way and thrick the government is just as battled by the LiPo phenomenon as the roat of us.

Thousand or page of UPO score marks operated by to GAN, P III A and Gan particle and the GAN and the and Gan particle of the GAN and the and Gan particle of the GAN and the indext exercise of a cover of the marks of the sector of the GAN and the particle on a cover of the GAN and the particle on a cover of the GAN and the particle on a cover of the GAN and the particle on a cover of the GAN and the particle on a cover of the GAN and the particle on a cover of the GAN and the particle on a cover of the GAN and the particle of the GAN and the GAN and the particle of the GAN and the GAN and the covering as the particle of the GAN and to get the cover of the GAN and the topper through the to be been of the topper the topper through the top be been to be been of the topper through the top be been to be been of the topper through the top be been to be been of the topper through the top be been to be been of the topper through the top be been to be been to be topper topper the topper the top been topper topper topper the top be been to topper through the top be been to be been topper topper topper topper the top be been topper topper topper topper topper topper the topper toppe

Government agencies at it have humdeus of UEC documents have the mofue to release to UEC researchers. The homonal decourty Agency (MSA) admits to withholding more than 100 UEC uidaed documents, the CIA fergin the withholding more than 100 UEC uidaed documents, the CIA fergin the withholding to the total agency withholding to the total agency withholding to the total agency wood. This iteratia areas information being operating to ite being withhelis.

The most traitilitions of all the embine of the NRA sector of the sector of the construction of the sector of the sector of the construction of the sector of the sector of the unready contains that the sector of the sector of the unready contains that the sector of the unready contains that the sector of the unready contains the mean that is the sector of the the sector of the unready of the the sector of the sector of the sector of the the sector of the unready of the the sector of the sector of the the sector of the sector of the sector of the the sector of the the sector of the sector of the the sector of the sector of the sector of the the sector of the sector of the sector of the the sector of the sector of the sector of the the sector of the sector of the sector of the the sector of the sector of the sector of the plane had destreptions.

UED repeatchers look the NSA to could fail addition took the NSA to be failed addition count upge Gerhard Goodi, the same judge who preceded over the Calver North case, nation in the NSA's lavor. The againty ratiosals in the NSA's lavor. The againty ratiosals in the because to do so recold reveal issueted over



IF THE UFO DDCUMENTS WERE Released, They'd Reveal the Fact that We've also cracked Ehemy codes.

es and methods, and that would be a valuation of national security that Repd main beleves that there is correcting about the phenomenon shall that the agency regards as a threat to national security These objects ner votating our the powerlass response of our mittagy systems to such motivoers. Friedmanhas a name for all this, He calls if the come Valanzage

This J. Kina as another purchase and the levels foremat skepts, tays there is no such thrig. He ports of their any if the communication miscopies by the MSA comes fram poternate code software provided all bit not mising their document pulties is actually quite simple. "They meght needs the backeton of cultar intering possits" he explains and own more importer, they would provide the other central code:

So if the question is whether the withheid documents onthain any antewest to the UFO mystery, the answer is. Probdoly not "Long ago a bir of us used to three this government was converge a knowledge of evidencements and up a knowledge of evidencements and up as a solution of the CPO Expennence. "But we we had a change of arturas: We take don't see the pomentturas: We take don't see the pomentment as having any anawata. If they know what UFOs were all about, i think history would have been a little different then what we now set."

This argument gains power, oddy enough thom the yowal modermuch "If it was a UKO that created in "If it was a UKO that created in the second second second second second term in the powerment. There would be major studies of it, hundred second second table would have been reliable would be the pain for your. The gooden table would have been reliable the second second second about UKOs than they do now. All of Lacoba and "This all possible that one laces and "This all possible that one have allowed the second and the second second second and the laces and "This all possible that one laces and "This all possible that one have allowed the second second

If the crisit at Poswel had been on ET crisit, marzie Kase hen the Unord Steller would have warked to know juit have many of hade cult with postering would have established a space source lance system smire to the one that was set up here years after the launch of System Kase cornel magne the government doing noting and array to put the launce and marging and array's house the set up the array and many house the parts Kase and here the launch of put the alses are marked by

Learn QL Der Vorlager Kit unt hannen. Learn QL bereichten sind kit und hannen der hannen der bestehnten sind kit und hannen hannen der Bestehnten bestehnten der hannen der Bestehnten bestehnten der hannen der Bestehnten bestehnten bestehnten hannen bestehnten bestehnten bestehnten hannen bestehnten bestehnten bestehnten hannen bestehnten bestehlten hannen bestehlten bestehlten hannen bestehlten bestehlten hannen hannen

That is to arrelate, also Brart II bey read years and indexed body also and here advantage and vector and an end here advantage and vector and an end of the second second second with the second second second second and the second second second second second second second second second UIC Information is some forth and blocks for whistless of the government weed to measi when the calits the "ubmits acceler that will indexed to be government and the second second second second second media cality of the the second second second media the second second second second second media cality of the the second second second the second second second second second media the second second second second the second second second second second second second second the second second second second second second the second second second second second second the second sec

SALIEN ALMANAC

The people's first FO lexicon for the Nineties

The bail of UCDapp into stranged sector and the sector is part of parts and parts in the paragraph of the sector is part of the parameters of the sector is the sector is parameters of the parameters of the sector is and the sector is parameters of the parameters of the sector is and the sector is parameters of the parameters of the sector is parameters of the parameters of the sector is sector is parameters of the parameters of the sector is sector is parameters of the parameters of the sector is sector is parameters of the parameters of the sector is sector is parameters of the parameters of the sector is sector is parameters of the parameters of the sector is parameters of the sector is parameters where executively which the sector is parameters of the parameters of the sector is parameters of the sector is parameters where executively which is parameters of the sector is parameters where executively is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters where executively is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the sector is parameters of the parameters of the sector is parameters of the

16 u Uróczy hos gone through a radiaci ohrange, and the no hvertios the transmit of the gast as the targety debater. Dueng the part decides, for insteam, iterrity thousands of gase is have cards howed is say through each of the staged, or idolated, by shiret, large headed, thin isgoed enther at iteracian spins. Bit obters report weet target assuming, with target on the close is and the staged each of the target of the target of the stage is an analysis. Use to be the former, you can now eath target built to be the former of the close target open the full target target of the former of the close target open the full target target of the former of the close target open the full target target of the former of the close target open the full target target of the close target open target

Abductions: Occur whenever a human specimen is taken abound a UEO against his or her will. Those reporting the oppenence are referred to se abductives.

Annual multistene Typically refure to suggestly multist de cable concesses fond parmany himpigne the Annual and West not Southwest's Monas para, cable, est different services and the services of the service and the service many himpigness and services and the service and services many himpigness and these may be remedia and with the annual concesses. It inquarity found in a monite must dename and provides and these may be remedia and with the services and these may be remedia and the format and the provides and the service shafts have been services that y base enforcements such have an annual format and the services and the service shafts and annual instance in the concession were services and the services and the services and the services and the service shafts and the services and the services and the service services and the services and the services and the services and the service services and the service services and the services and th

Contactees Unlike the abductees, contactees have report of almost universally benevalent experiences. Commonly, the Ayam boding alters they report was apport inclose we and politica and orticate maintimaterialities ways. Course Waterpark New Kinnwork racket physical Binto Foodmar may not have control for phrasic course We degline, but he dame is how own of the Neptonian inner (McGage) from own of a river own of the Neptonian inner (McGage) from own of a river own of the Neptonian press Waterpark (McGage) and a river of the Neptonian press Waterpark (McGage) and a river of the Neptonian press Waterpark (McGage) and the Neptonian method of the Neptonian and McGage) and the method of the Neptonian and McGage) and the method of the Neptonian and McGage) and the Neptonian and Neptonian and McGage) and Neptonian an

Crashed saucers. According to rumor, several crisition flying discs were recovered and secretal away by the military suffercises over the years. Some UFOlogista deem that alers todates have been retrieved as well.

Grop display Strange serviced profes in Britan's breaching and that appeared in ageneratin numbers during the summer of 1980. Last your above more than 500 such codes surfaced, many showing a growing complexity of evolution in terms of publicity and display. Explanatoria nango incomtin measure logical to the supermatural

Grapp So unled because of their paths, objective aken and complexion. The Host commanly reported alon humanoid enthies, Grappi are typically described as dwarter in staure with oversized, intuitive heads, large, startied black send: and scenare lettla.

Hypeotic regression The process by which UFOlogists hypeotice adductives to help them recall details of the care adduction exercision.

Implants. Triv, EB-shaped montoning devices reported during the associati addiction and suberquent physical enamenation of humans by auto beings. Duswity inserted through the nated passages and other obsoure onlose of the water, implants have exportedly been lodged in the brans of some abductoes and, in at least one instance, is the perior.

Non-Imback Long a subjet of the cerk side of UPD Imp. The extension MIB limit unfaced in They Knew Too Mach Alsos Flyng Storms, a 1066 book by the last UPO entipreneur Gray Barlet, Pasing as government agents, mas thiskin sudmight agence in a UPO entrest's devices, ofmenting pilotigraphic negatives or other UPO environabilities among the writema to last pilot device Mid Ho may active servers the writema to last pilot also divid Ho may and the servers the writema to last pilot devices that Ho may and the servers the writema to last pilot devices that Ho may and the servers the writema to last pilot devices that Ho may and the servers the writema to last pilot devices the servers the server

CONTINUED ON PROFILE

What really happens to abductees inside the alien ships

THE JUICY DETAILS LIFOLOGISTS

LIFO abductees correl tales of tiny gray aliens yast LIFOlogists distinguish between true abducteer simply repeating information that was recorded in

redekters hospits, many clues found at the scene of a crime to the up a thief Colytrue abductees investgators say will report the correct informational tidbas.

Artist Budd Hopkins autor of Mission Emeand ininside walls of the alien shins David Jacobs arothand professor of hadory at Suses to onveol a specific female body area measured by aligns. "The area is so unusual becaus "it's diffe

Hartes, who says he is a

firm believer in holding thengs back "but won't re-So fat, researchers

has been held back from the To rive tem ton even olduo Druffel, for matance, bas not by Jacobe, nor the strange Hopkins himself notes

be misleading smot differant researchers have differments on being measured part of the body and from

same information, but save difficult to get in any field " It is a question of differing "with evenotions town the In an effort to did up some of around a bit. Stacy give up

1 Pictógrapiec Writing reputarly report a system of

sources have supposted the nese ideograms, Egyptein hierophyphrcs, or other forms.

2 Aliven Nursenes: According to Hopkins, abductees human-alien hybrid babies ductees (and Hopkins)

ally horn. Our beed custes in where to where, while I'll just bies from the incubators to larcer, deeper metal contain-

> ion. Once the hybrid beby human mother, abducteos onball with robot arms and mother, who provides physi-

sources have succested

sual "If a good deal of fear reports of aliens decked out unatex bodysuits seem lack-Later Wetterk The researchers may be hiding pration colorful clothing patch-7 Humon-Alien Sex Wo sation of panalysis followed by unwilling paralysis robot

TOUR OF A UFO Aun alten craft might look

ter interviewing 50 UFO abductmet who say they 275 hmes, Jacobs has peopld logether a picture It's incomplete, says Jacobs, because the stron-

fered a cuded four Abductoes are there for a

craft as is necessary to get ground, abductees climb a surroundings with whatly sel is hovening. they are formed up rooms with domed certings. thomselves in a halfway with metalic walk that are explains And the allens are contain a floor-to-ceiling wocky Lisasily they are ushclean and near We have

walking around the peame.

Wrbally all medical zones

smiarites, Jacobs adds. of craft, "with the typical are illuminated by a abductess cannot locate, ment-attached to wells on rolling carts. As for the examination table, Jocobs

with very little own ermitike devices snekking up

notes, the examination room with domed creations, white benches, some of these seem to be "visting rooms"

Enally abductees may pass through a control room that sounds nothing like Enterprise There is a console with lights, an uncednating, equally interesting withesees and remarkably narts of the LEO 1 -- Daul McCartha

UNSOLVED MYSTERIES From France to New York, the five thorniest sightings of the Eighties

1. Physical traces at Tracs. en-Provence, France, On January 8, 1981, Benato Nico Itakan mmagnant sawa sau-

Phonomhous Minotwo large concerning circles. ohe Agronomique, detercent of their chemotryll pip cale Later GEPAN hand Jaan-Jacques Valasco sed a datable amount of camradioactivity in the Trans-an-Provence plant stamples. To al appearances. GERIN take place

2 intructor in the upper atmosphere. In December 1968



Linged States tracked a mus- 1 5:10 PM, the prew of a Jaterious flying object as it entered the upper almosspeed The obsect later en-Ill-was sounced at the Pentecore and throughout the disappeared as abruptly as to have led to the creation of a classified UFO working

3. Giant UFO over Alaska Flyon November 17, 1996 st.

and ground racial Minutes later the 'mother ship " op nativition the screens, then look at £ It was Seturn shaped (a dap with a on seits medbection] and the size but the LFO kept its casifion At 5 39 PM the object variabed from sight and

4 Texas scoreher. On Dopember 29, 1980, nagr the encounter, and a radiolpeared to be radiation ackness. Sealeng thewers and as sued the government with-

5. Westsheeter boorrenand In 1983 and 1964 thousands of people in seven suburban ocurities of New York and and with lights running up thing from lightning speed to flying ultratight arcraft in And identical boomenangs where in the United States

This listing was compiled by Je-

TRUE CONFESSIONS The unbearable pain, sorrow, and terror of alten abduction



Duxid Hooking

NOTES FROM THE

Build Hopkins exther of Mesing Thire and Inhustins, hose written more estartiavity about the abduston phenomenon than juit about anyone. Because he has so eloquently described thes so eloquently described the playt of the abduston those who consider thansolves part of the strange phenomenon are constanting performant neal.

In fact, since virtualities was published some three years rais, Hopkins has recorded about five adolately interes e day, has collection of more than a socarpoint a schemave eniesed Whet Phys McCourtry has accepted some of those latters, which express the gain someward adole before

 In the summer of 1956 I worked at a summer job in the mountains. On the last right of the job, I started dry. Ing back to the coast. I increase of the second sec

Which Timally got to the owner. I wan in the entry aligate of a compaisa time entry aligate of a compaisa protone instantial alignment photoe targate, com a nourphotoe targate, com a nourphotoe targate, com a nourtime and equipresson. If will nontime and equipresson. If will nontime and equipresson. If will nontrain alignment and it houseded to general an exemption of epartment building complex eleven blage house this was an once beam this where house house these this cuided with pionty of traces cuided with pionty of traces on gether acids

There was a power updatation or top of a infl, and this is whene we saw an orange glow descend. We multiple the descend of the based of my incollection saw a amel tound doc. It is from this stage on that my memory has become somewhat cloudy. The next thing we invery was that we were down behind one of the buildings we never frequented this perhodular place) and we had somehow lost two hours of time. We loaded up and time. We loaded up and saw another orange glow, on- ly this time is wear miting. I laught and wear miting is laught and wear miting is laught and wear miting and at each other and seul. On the nother and seul. On the nother and seul. On the nother and seul. The method wear turner wearborning it further It was the last time we over spoke about it.

My france was never the some after the approache and in a few atnow years the downrends auxias. The near moring i weke up with what in one auxies in the "suntauri" on one aide of my income to insome the thought it was an allergo boom acce applications in my new boom acce applications in an other applications in the one opportunity. If the one properties in the opportunity of the opportuni

 Late in Jane the year I was evolvered by Jason caling out to me. He sileeps in the next room. He schemed, "Morn, there ero two aliane stering at me."

Notenally if ever this boys read may in the right ray feet are on the ground befree firm avakes, but despite the same on the source, I called out to here that it was only a chaste and to go boot to steep, other it here boot to steep, other him crywg, and the time I was it host him. Ho was stern with to hom. Ho was stern (his words) had stood by his begind started it han. They clich's speak, just abood there. There was a light behind them, so their alrape was in shadow. One was sai of than the other and they clight move, just started for agea. He was too terrified to move, he setd. Alter a waleved away. Than he oried for me.

Namenia / I voud guit a women to is bad datam meet day, His west intel fragment integra, and an i droppen i nem off at my satura's for two off at my satura's for two news multiple and the saturation weeks. The i however, go the time is got back to hem he weeks multiple on her for weeks multiple on her for weeks and i saturation and a saturation weeks and i saturation weeks and i saturation weeks and i saturation a chosen.

We even driving a living a desented radii hororpiala derivines when we turned a serial and an even and and came sub the nool almost. The object revealed real for the nothing more then a forming series and the series of nothing more then a forming most, or conversion a law of term. but is conversion to nothing more then a forming and when a colorada the series of the series driving a colorada the law of the series with terms, for no new and the real back and have a colorada the law of the series and the series driving a colorada the law of the series of the series driving a colorada the set of the series of



repertence to others as an amusing moders, and to this day the never mentioned its might here never mentioned its might here to advect the second second and instance of the second second reptans me and have to advect this, but ident ishow why There was acreating about the way to object was it, or pertags the position it was parted in the much here second in the much here second in the much here and the accounter of

The question I wint to put to you in I you linets of any cases where UFOs have effectively disgussed themsalwas to the criticaler as everyday objects. Thops this deserf sound completely which but I'm hoping that you'll be able to tell me that thes out of thing has happened before and I'm not plan crary!

I often their about the oncountry, separation of the second result of the Bernardene I just leaf oncotantes, bur, mone fam, han not, the floaght of head water, and nogary fam. I have a second familiar bur intervent and nogary familiar bur intervent and nogary of the intervent and applications that applications of the second second application where and i cannot pair lead on the second intervent of the application of the always bear of the alwa

how could this be? I have the in my memory all the where I am I don't know to a place I don't know of the fixed it is Med with a tupos in different phrases of fumbflious?5 I carmet age seems to be thack or gelatwhen I was about eight or

nme. I had been sleeping in my bed Julei waa aalaap aachaa the room from ma Wy bed waa near the bestyner dwindow I boud haar someone cell me I thought it wa Julei, vol thought it wa Julei, vol thing behind the door i staated heling stick (osand wab, 1 think) and I wantas to go to the bahroom and throw us. fied to call Mom Julie woke came in and tried to get me up and put me to bad. When felt' live i had a nore throat. ocequiated thad forgotten •When I was pround feel reslumber party that right and bright light in the back of my becase Starring at that light

NM CMN

DIPPING INTO THE GENE POOL-Are you a human-alion hybrid? Take the Omni self-help guiz to find out

During the post decade thousands of people atomic the world have reported a rightmanth journay to the dark aste of the soul. These individuals claim they have been abstacted by the allen initiates prove call Grave

The darys set problems in a distribution where is a distribution where is a distribution where is a distribuports with dozen of tasktime data distribution of the any enders of the resolution of the maximum data distribution of the maximum data distribution of the data general magnetic data distribution of task distribution of the data general magnetic data distribudata general magnetic data distribudata distribution of the maximum data distribution of the data general magnetic data distribution of task distribution of the data distribution of the

Whatly all LPD mestigns and report and reports and report and reports ment of Carporates in the metal and the second second metal and the second second and the second second and the second second metal second second therm of the second second therm of the second second therm of the second second the second second second second second second second second the second sec

If you have always fel

unique, could alien ganat be the nation why? To hot out whether you fit the hybrid profile suggested by aboutse reports and our own pervence reckoning, an awer the ten questions below. Choose the answer that best describes you

 When you limit meet a stranger, you a) form a powerful inturive first impresand, unimpressed, c) know exactly what he or she is ready limiting.

2 Whenever you think of your parents, you in) feel a deep inneltip, by wonder how pedestrain people like how podet have produced a brilliarti, creative gateus like you, c) sense confusion and discortfort

3 When vesting a muscum, you are drawn to all he rewring lights, towers, and heids of Van Gogh, b) the abstract as hapes and bekid poicher of Kiee a) the strange heroglyphe renderings of the Explanamin.

 Unusual markings along your body include a) fracklas, b) molas or cyste c)straight unexplained outs that appeared mysteriously chalt dippeared mysteriously chalt dippeared mysteriously

5 You expension headaches when a) you enter a room Med with parts, powerful cleaning fluids, or other noosus himse, b) you are upset, c) a strange, maudible signel beckons you to come.

6 The checklers in your dreams include a) relatives and childhood fixends b) rock stars, political figures and TV ndws anchosa (c) bald figures in bodysuits 7. For you, summin.

vacabor was: a) a time tor Jun and set-exploration: b) a partial test of your popular ty and ability to the mich a period when you would be period when you would be appear for teng stretches of time—sometimes even days—yet not remember when you had bean.

8 You are on a subway train in New York Cay when a garg of lough-todeing youths demand your money four all gave it to them, b) decises to punch and lock your way out of the shubbon of lock into their types and convince them to classist through nonverted communicitizes along

9 You are most aften bothered by a) blaring music or other loud noses after redright, b) an instant liner voice telling you in English and Spensh, to save the human race, c)-questions from hierds about the direamatances of your conception and birth

10. Your largest physical problems includer a) oreasured loatures, such as a large noise or ears b) a tendency to put on weight, c) gray skin premature baldness and a triy almost vestical mouth.

SCORING THE QUIZ

Please give yoursel three ports for every C ensure you saleboard Fiyed social between 21 and 30 point, you may huly be out of this wold A socie between 0 and 9 indicates a basic earthness. Scores between 0 and 21 points indicate you may have a fee after genes But then don't we al?





THE DEAD LOVE YOU

Like you name it Big Push mostly

"What's 'Big Push

back in his char "Jesus, if they only knew who they were lucking with huh?"

I straightened my skirt and pushed her back over my ear

think they to men! They also change celes all the time. move around a lot But they got a good reputation

"They are absolutely for us. No guestion about it "

I nodded he bould go. He got right up. "Can I do any-thing else for you. Ma. Powel?" He was always eager to do more one of his lew nice qualities. Otherwise just another anoopy little rat who worked for me when I'd let him

I sat back in my chair and looked out the window. I wanted to see for myself before I took them in. Other people's the book on the bed, but those might have been only mthen spends the rest of his career trying unsuccessfully to do it again. True maganation an't luck-et a genual Only ge-

new stuff Pick up people in a bar as a man, take them home either alone or to Pater (Patra) than pull some stunt ing wothin Simple stuff-take some photographs then a few

More interesting, however was the gets oldn't always cample humilation. They made a shooty woman welk nelved son, thus ruining a lifelong wonderful relationship in a few

building. I fell aslesp and dreamed again of the child and the mystermus city. Only this time there were two children-

"How much longer is it, Anthes?"

Soon, Joanne, A few more blocks, 1 think 1

"And I get to come, too?"

Sure Joerne asked and I said yes "

"Arithm always knocs her word " The two of them looked at me and amiled 1 amiled back

I know I am not a good storyteller. I could be, but it doean't interest me. I purposely leave things out or ignore others if they don't interest me. I tall jokes terribly

though a real woman's smaller fear and weakness interest me (and always mote others) J have pretended to be her obas when I come here as my trute A myfrie aged woman with a heart condition is a marvelous deguase I have used her for hundreds of years. A good thing lasts forever!





Like my shmy little detective. He is disqualing but efficient. And I did not even need to create him because he has been around as long as I Loves his job. too Loves finding all the boring dirt and gossip about people, lowes the snoopno, the setting up, the trap

me a while longer and you'll know everything. I could have held all this till the end But I want you frowning now knowing something is very wrong with your the cord and praying it opens PS is

I watched them for weeks. Both women were very good at telling the world things don't make sense and pruely ofbut there are more and more people who have it these days Only the wrong survive Maybe it a like Holewood in the Thirtes-e lot of beautiful women dved their hair kilo Lana Turner ciscovered, but very few of them even got in the movies

When I d seen enough. I killed Perre Hacket: She wasn't as good at it as har lover and there really was only space. while Joanne was away for the week

When she returned on Sunday

right, she found the table set with all ther silver and linen and best crystal around a twenty-five-pound turkey Petra sat in the cherr in a maine site smoking turkey stuck over her head

ly looked at the run of her life I came out of the kitchen weating a chef's cap and carrying the minge pie "Are you hungry? There's so much

foort

She looked at me "She's dear?"

"Choked on e Flat," I pointed to my neck. 'A little white one got stuck in her Throat "

Who are you?"

"Arthea Powell One of your victure.

She smiled sadly "I clidn't do such

I clapped my hands to my face Mock dismay "Just the opposite" You clid what you did, all along. You two were looking for mel Want to corre-

Coyly, she asked, "Something want to see? I've been looking for you?

reached over and took her hand. It was



ment and down the stairs to the front door. You really have no idea where

She shrugged "Maybe, but I'm not

We're almost there anyway It's just around the corner

Once outside again. I felt the hand shink in my own until it was the size of a civid's I looked down at the gri with the while har and squeezed her nice hand

What about Petra, Anthea? You said she could come too"

about things. I thought she could, but she can't Are you angry?

She shook her head "Nash, she's a wrk. How much longer?"

Two merupes

were there. We went into the building and down some stars to the basement door I opened it with a key and we walked into an almost totally black

"Don't worry, honey I know where I m

Lied us arooss the room with one bump into andring Almost at the far wall, I touched the ladder. "We're

I pulled her around and put her small hands on the first rung "Just start to climb. I're twenty free steps up,

her, just in case. Halfway here, you sugary, almost sickening in its heavi-

"Smalls I kn cekn."

"Just keep going, honey We're al-

"Tim fremi I can feel the top."

"Take a pece and taste 1. It's your

"Chocolatel Ir's chocolate cake, An-

Thef's right, Joanne, Now push-

Theard a soft smooshing sound and then there was a blast of whete light

The get had climbed to the top of the ledder. I went up behind her, mo the light Propie cheered 'Hooray Jo. arnet

I looked at everyone. Everyone who deserved to be here after so much good work. Wonderful souls. The shit of the earth.

"The dead love you Joanne Welcome home!" DO



CONFIRMED FROM PAGE 72

and appear on the end y-entreminent the term of t

Borg in Bucharest is like stepping back-60 years—only a few streadights rickety trime radied with rust deplotsIng properties where the more much coming another provide where the more much comditional terring have where the short many proadd terring have been been many proadd that the short many proend that the short many properties of the short territory of the Comparison to many short territor to the Comparison to many short territor to the Comparison to many short territor to the Comparison to the short territor territor to Comparison to the short territor territor to Comparison to the short territor territor territor to a personal territor te

Constain Racke I haad of the occurity is upon of alsopen gar consustant and a man constant/s in tecular for apugator yoars, crustee this head sack? Permise observit have the engines is alkunch the new Remarks. Look about you There is a hundred people in the for contrag to a hundred people in the for contrag to a hundred people in the for contrag to change the marked (son head in whith whether the the form.

"Our fantasy is to have a decent flat, a car, and "--te smios, embarrespect at the extravegorize of his clearn-- a boat so that we can sai for a year from country to country." What is your plan? Task. To get out of here.

Wathing bit my plank at blachailetts antheader introdictional angol 1 buy a been-with datase. At course-and blackage a convention with an israels buardecommon whose thepping compoing powermited for years. Themains a grand water is consist age time country base were years age of the country has everything and yet it corn level as people 11 ask hard. Here is a way toop for Resistance. There is a bases hope. If we word is for black would be here?

The mergels of Eastern Europe a thirt free proceeding spatial strates, and support of decades on their attribute support of decades on their attribute support of the constrainty of the support of the spatial strates and support of the spatial strates and spatial strategy and the spatial strategy and bears of the spatial strates of the spatial strategy and the spatial strategy and the spatial strates of the spatial strategy and the spatial strategy and the spatial strates of the spatial strategy and the spatial strategy and the spatial strates of the spatial strategy and the spatial strategy and spatial strates of the spatial strategy and the spatial strates of the spatial strategy and the spatial strates of spatial strategy and the spatial strates of spatial strategy and the spatial strates of spatial strategy and spatial strates of the spatial strategy and the spatial strates of spatial strategy and spatial strates of the spatial strates of the spatial strategy and spatial strates of the spatial strates of the spatial strategy and spatial strates of the spatial strates of the spatial strategy and spatial strates of the spatial

There's never been a total-body aerobic exerciser like this before.

Treadmills, stairclimbers and stationary bikes don't give you half the workout of NordicRow TBX.

You don't just work your legs, as on spatientlis, galacchirabers and stationary blocs, with NortheRow TRX you storghton and some all the major masclas in your upper and lower body. You out heave the workstat.

ordicRow TBX means total-body everyis

NordicRow TBX advances the science of personal adjustability and comfort.

- Revelutionary back stress motogenent system for poper poster and weight had characterized and contained and contained.
- Split-resistance settings for rodwahalance arrent and lower hole services;

Try NordicRow TBX in your own bane for 30 days with no risk or obligation! CALL TODAY!



The same innovative design and quality averbranship you re come to especi

FREE VIDEO BROCHURE

BOOKS

CAMERA NONOBSCURA: Like ancient scholars, the Zuckerman brothers are passing on the word of God

La colkid desp. within the bowes of Leringrad S. Autor Laringrad S. Largand Coles-Tex offeet comused to the second second second manuscontin-written in Cero assund theyae within by the assund the assume the both me read addicated to proserving the assumpt of the Sorghum merring of the document of the document of the Sorghum merring of the document of the document of the sorghum merring of the document of the document of the sorghum merring of the document of the document of the sorghum merring of the document of the document of the sorghum merring of the document of the doc

These rearings are really a fence recard the loren to gauda and standardze all the processo words in the text," says James A Sanders, president of the Ancient Bahaal Maximum Donter. "Now our focus is to be eable to read the Mascreter" methods.

This ancient manuscript was the subject of intense curberly among biblical scholars when it

was acquired by the library a cenbury ago. Western scholars had access to the menuscript but no means of conducting a detailed study away from the library.

Tharks to pismost, in enhanced photographic addition of the codes produced by a Swell American variane will scon be widely exclude. The high-resolution megos will open up the setracedrary archive to scholare worldwice, providing them with the unprecedented opportunity to itualy these lasts.

This project could have been done by a Bower group, but we don't hive the betmould equipnort, so a reaction have sheen the length and the could be welden the second second second second weld between the second second end and the second se

This paid May four Americans becams the Met Song ness permitted to take photographs of the BSP page test. The group included kan and Bruce Zudeman, a photographic learn from the Was Sonaho Reason for California (USC), and Garch Maler and the Linversory Southern California (USC), and Garch Maler and these from the Ancent Bibliot Manascrist Center, Isoched in Coremon, Carlonnia.

The Zuckerran bothes, expenances ancest managing protographera, have also photographera have also photographera the Deed Bee Scrolls have sub-graphera and the argin menana degrand not only to preserve the contents of thes fargle mensents, which is writien on goalaim relating marks no longer visihe to the naivel even.

Although racing to get the entime the Soviets had alloited the utation for being metoplous. Ken Zuckerman set up a try make-Bruce Zuckerman epert ten hours a day for almost three a dimly it soon buried deep inacts the walk of the elecant, mayminimicroscope to make sure are no begger than the period all the end of a sentence. Before each session, the photographers took Polarcecia of each page to sheek the exception. They frantcally processed the tim in ther hotel room, keeping their fingers prosped that the photos were causes vibrations that per chalort

"After all the planning proceedlear, negostations, and triving infinally at comes clower to you starting over a processor menuscript with a light and a exercisive piece of the and making that mage regnister to an optimal degree. Targe hubble 20 planning that mage regnister to an optimal degree. Targe hubble 20 planning that mage regnister to an optimal degree. Targe hubble 20 planning to process all the flast by early 1991.

"Dar verch is reality a continuetion of the Maxember Hall Jon", concludes Encirc Zuckermen. The Mazember were state-of-theart in the year 1000, White subsof-the-ent is the year 2007. Those Zuckermen hopes to norm to the USBR and the year 2007. Those Zuckermen hopes to norm to the USBR and the year 2007. The year 2007 white year on the USBR and the year and scholarly knowledge to laws a snormer of information that year endure to information that year and there DO

on the Toroth's pages are no larger than a period at the end of a sentence.

Welcome to the SCI-FI CHANNEL.

A New Basic Cable Network Festuring 24 hours of Science Fiction, Fantasy and Horror Programming Seven Days a Week.



Call Our Alien For More Information: 1-900-847-ŞFTV

Our Alten is standing by for your cell on how to get the SCI-FI CHANNEL in your neighborhood.

Callers will receive information on how to order 7-shirts and other Sci-Fi items. All callers will receive a PREE brochure, PLUS a SC3-FI CHANNEL buston or poster.

The SCI-FI CHANNEL

Nothing ease new it can (seein

All calls are \$2 for the first minute and 97 for each widdlines i rainets.

severty-two percent of the planet's lepidoplarana had regrated, or were now setablite trackebly "in the act of regniting," to surry Southern California

Jod-Mann Ia I & Despportment, easi tankai ansu, and simple hunger drive her to the daybed in our fail. Through our Venetan binds: the neaseless that and hun of vings served only to amplity her little-gri belinium. I asked her is the warned me to gait her out of L A. Is a hus-been-high hierdite microixes.

Wry, thad no earthly idea I was surwing on pearut butter and stale broad Jodi-Marie was goting by on Like arm because too and Shore/Breach

One day in May, hacked off at God, light her to the oclose of accivers dranch-

Under the blocked of insects runting the path hards above Dympic Boulevard, I stumbled toward the studies Along the way I taw docens of camere's people busity timing Marvyn Babbata's latest probably lest megnum ocus.

They were everywhere. Squitting, am ing, shooting. Producing enough full color footage to preserve. The end of the world in complex cellulated montage for, not for our posterity. I gives, but for whomen or what were teaceeded us.

Babbasa Ivmael, megnicardy occor stated slood owaying or a satyfox solfoid, vestie from teal a block away on Clympia Barpsing a hupe megaphone of butterlies he 'Wrapered' through it as loady is the Mabba aut Triad aut/ Conveced Action!'

A first data a full as he are to share the gains of data and an area and an area and an area and bat the stream Monard Rey. He would had the stream and the analysis of the tas command. Monardna malachtas cose—commented on the city, hormad or assessed and the stream and set assesses and the stream and set as the stream and set holy would an an and set of the stream and set as the stream and set holy would

bleik to my linese Boptigton bleikol Tatto Nisto A bleiko turose wind havnosned aroxind me, stealing all dise that he leptopons bilowing all dise that he leptopons bilowing suffers to any ning havefiguring suffers lies fre cog o a taturistory tesimonuclear mathroom w ar was one the cound was

My ar was gone. The ground was gone. The sun was gone. The was Armegeddon. Sabbata was he impreseno. Then he mutated on the soafold, coming to resemble—bnefty, it lessi-

	2 Books
	10 Bucks
÷ []	
" II	DYPLE II
	D0025 Apple Medine Language For
	Depond
5	LOSAE The Complete Ages
ň	D0083 Guds to Search & Griphes an Ew
X	DOTT Apple lics Methods Lenguage for
×П	C1208 Motore the Apple Re Trailors
n	
	CEMPLOYEE Ad and 128
6	00092 Telecenating on the C-54
°	00613 Michael Language Garaca for the
311	C64
	D0947 New Methre Languest Genes Ry
1,	Ife C-64
۶H	
. II	DOPT Careng store beins on the U-64
	DOHDX. All About the G-64 Wolume 1
s	D0601: Degeners Bude to D-64 Bound
	DOV21 Cerrywallers Collection Valume 2
211	COLD THE BOD OF D-BH
	E0531 Datand Back of Marting Lenguer
۶. II	00007 Kely and the C 128
2	(Thread
ãЦ	CODY AD Gent First Service Adapters
6 H	DX09 Jet Pupter School
2	E1179. Georgesk Remetical
211	EUNY Autours wet
5 H	Child Computer Computer Fanada
еH	Barris and Barris
11	El box reinutó
	× \$5 such equils
5 H	Sides Tox (NC INJ NY
6	Science and leading
2	51 pr top.
211	Rei Eulosed
6	Check or money order in US funck only made pro-
đ	Processed
0	here
9	Server 27/14/00
2	The second se
81	
9	
9	Mail this active coupon to
2	00 000
	2500 McClatian Ava
5	Partmenuer, no 66128
	and some second rate

Learnaar De Long, his body a camationa float in an upwardly mobile Rose

Sabbets = De Long = Syn the De tic Ecological Church of Liberal Kanmystic liberty

Butterfles were rabbing on my eve

Jodi-Mane was out of bed. Venetian blinds lay sumbled on the floor like Koreatown stood open. Butterfles wobbled around the room in a Mack Sentor under the window listessity grabbing

'Good' she said holding out a hand-M. "Try scrine, Derman"

I seized her hand, brushed the grushed insects away "They're loat," I

I guided her back to the daybed I last a dame washcigh over her eves I knelt bearde her. I weited Later back and die.

NO! I cred

(Outside, butterflies kept erupting

Joch-Mane Woznicki," I said, "I ing so a sop to my own conscience? Then I remarrisered the dream sheld sold me under the August moon at Leamaar De Long a and I know

sanadab		terrary of
Boost Inc. Automaty		skeet for samply
o' the buggest crystal		of the biggest oryant
poince in the heatry of		prince is the history of
such princes once for w	intel (eus	it panent a see the work
pd increases	1011	par no no tea wea
of ing low model being.	1412	afting time period to range
I ENVIRE BUT TAKEN	1111	Februari Patitivani
of the for in the big-thm	11(1)1	of the ferrin the big series
melalationers by which I	1411	anhabitanism by wheth it
show the sound my self.	11	show he would sty to #
which the stightfurth		Writing K with price
rished parts with typest		mari yos, an pra-
the uncertained		the lithted sheart
No alloring		i to alternop
card allowing		and advector
where		ventioning
LONE		104

launching for prinbrity?

Wal, it wasn't the "vision" I loved it: was Jock-Marie No matter how child-

For more was to drift take my please

Now I can Heal myself, not quite at leisure, of the sperifual rot that once numbed me to everything about her I couldn't take in at a glance

Beauty-the wabie sort-has always alian me. Now it does an action a townly silken megadeath

Thanks to God and Marven Sabbatas etc., for this is the way the world ends with a bang but a flution

But to hell with all that T S Eliot crap Here's my echaph for Jod-Mane

Meanwhile, so many gocklammed butbarfkes! Balwings, bird wings, peecocks, the whole indeport, sufficialing

To dis beneath them is an exceptershape for me aloft the clear longwing lace of Joch-Marie Weathere DO

The best way to a man's stomach...NordicTrack

World's beat scrobic exerciser.

Up to 1,100 allones per hour according to tests at a major

Maanwhile you can strengther

NordicTrack duplicates the motion of cross-country skiene, the

NordicTeack helps you lose It's more effective than during And then high-impact aports

This is the way to look as good as you feel.

ducuvity and creativity and lowers your seress All while belong you



muscle groups including the arms.





PHENOMENON

Engrantic spheres have through space, obeying the laws of their camourneese, laws that make particulseries to these galaxies baselies built to beyond the understanding of humans. Indiaed the understanding of bumans indiaed the understanding of udated anything galaxies know.

Prueti produced what he calls Eggreppani on a City YMP compute lipprepent nue of gravitaten and attraction and reputies, but hey etco herd attratic directives has begin by raritority choosing ports in spece, represented by put by Phote at Los Alercos Netocrel Jako cestore la ostantific metagra, Dia Solori a Universita esta a Universita de Internación del a Universita de Internación Universita del da com natora, el valorar a Universita del da lange el operacio recentría procnocioalistante el operacio recentría procnocioalistante de Operacio Tecentría procnocioalistante de Operacio Tecentría de Universita de Operacio Tecentría de Universita de Operacio Tecentría de Internacio a Decentría filma recentría

The SOOPE program will help scirelate see the interaction of atoms and the obligance of default status more clearly. Pruest, however, seems organily interested in exploring to avoid the possibilities, using the program to provide the clear policy. weakee her fanteeren, Proaitif's computer-generated photographis have been on exhibit al the American Muroum of Naturel Hatery in New Yook, and more recently, Philadolphia's Pankin Institute, among other museums and patienes.

"With the computer " says Phast, author of Art and the Computer (Mo-Comv Hit), "phasewa antala, people who appreciate an but lack the honoreye opported the the two honor of and in it have the handlet time drawing even a pragration, lack with the computer (in picture period)."

Bub Borger DO



DREAMS?

CONTINUED FINGE FRAME OF

of the country. Over the past lies summers, the phenomenon has become increatingly widespread with the orcles lossing more and more frequently in nerve numerical locations, and in over more influence obtaines.

Some of the patterns develop uses there as in the case of a large circle found last May with three concentries on the start of thorys links, including observors sportial a bouth ring a thousand leat wate and entratoring the offnicipality opposition in apportant faupes of vitro was responsible. Others have attributed the patterns in hedges page, particular or were hippen.

This is inspected, concools Calor Andees, an indextal inspector and local government of float in himmodifier and discritos himmodifier and the three barenos measurements on the color and provide the second second second and any second second second second at a second s drews eavy. There is no question at all the, the phenomenon is beyond physics and science as we know it to be

Well, then, what is it?

"There is now an admackness, mound of das being howays the dimozen is solar term of relations." In the solar term of relations of the call extrements in the term of the term of the cruits. They never hap the term of the cruits is the process pacement of the cruits. They never hap the term of the call of a field, all the terms is the term of the address the term of the call of the address the term of the call of the dashed hap and the term of the dashed hap and the term of the term of an inch of reading to the term of an inch of reading to the term of the term of the call of the term of the term of the call of the term of the term of the call of the term of the term of the call of the term of the term of the term of the call of the term of the term of the term of the call of the term of the term of the term of the call of the term of term of the term of term

And/over tradition of the offen on the order merken biak with Angular with the Operation Readers—as surveillance affort he set up on the Satebury PBan in the heat of onder sourcely PBan mitigering commons influence of thermal imaging commons influence and thermal maging commons influence and the heat common the sate home in baid when the escapament has brief an influence bain encounset in baided in the form of baining lights on one of the manages. In the influence of up offer parameters the influence of up offer parameters and parameters and parameters and an and parameters and parameters.

At sumse the observers could see

circles, all right in the fields where the lights had been, but they turned out to be the hand work of hosevers. The thermal imaging cameras had picked up the body heat of the practications.

"Our location had become known." Andrewe notes ruefully. (This is hardly supprising because the Brissh press grants ample coverage to Colin Andrewe's ideas and activities.)

Biently after the grounding of Openation Biackness, Anzieven notes Britch-Army neereschere got Tim botage of an arange heft in the sity mover gal cone/ to the cent, disparg down to ground iveel and then prolong us geosed battere disappearing behind a dante finiset Onthe morrow, evental circles gepered in the path of the crunge light. The lite may are in a BEC corbins geopail

"Andrews and Defgado are a rightmere to risk imments levends Meadon are abrosophene physical and a founder of the Tomaso and Storm Research Deganzatore (TORHO) as well as the Dous DFock Research Croop CORHS). "Their beliet in a partonerms (pretence on timby infrasor housenet but makes it wrinks of the vector the these circles meetined as the full."

Meadan first laid eyes on two com carcies some five miles from his Witshine home in Austral of 1980. His mmanager



Spece cares of Work and Ps Moon . Making Mars Investile Neuro the Moon . Zed mark march

Available in Initial States Everywhere

ATTENTION DIRECT MARKETERSI MARK NEARLY 4 MILLION GREAT IMPRESSIONS EVERY MONTH... INTRODUCING: THE OMNI EMPORIUM

OMNI now offers direct markaters in product showcase custom tallored to their special advantance mends.

The "OMNI EMPORIUM" will consist of 1/8-page, block and while wilk, 2" wila by 4" deep

Display rates: \$3,000 per 1/6th page ad.

Conveniented y attivités la requisitada l'inconsolar, Qu'Mil viel provide otenles assaltande la davie fuere a tai additional cost. Payment musi accençosy al lo foreien and musi la enten los provides da additional cost non y coster. Prasele estatose a cernno en y seu product or canalog with your of, as well as your strete dadees and phone number, otherwiseprovide with tai nettrines, All da arescupes to accession to ADMI

Deadline for materials is the tot of the second month proceeding the issue deter Clasing for the Merch issue is January 1, 1991

For lutther details write. OMNI EMPORIUM 1965 Broadway New York, N.Y. 10023

Or celt Glenn Smith at (212) 496-6100 Ext. 1544 Fax (212) 580-3693 ly fired off a short scientific paper isoplaring them in instanciological terms and has been refring this theory everance. The circles are caused by whitwinds. Meaden believes that break down, hit the ground, and weave the crops into the tangled patterns of their spraining winds.

Meader had hoped to getter support ing evidence list summar with a motthlong oncides watch that he mounted with the help of volunteers and private hunds, but the group waant lists enough to find a circle in the meaning

"It's a little like trying to film a road acquirent as it hisppane, "Meeden usee in replaring the odds against success "It's not that the event isn't common. It's that you've got to know where to be ahead of time and have your compose rolling before the action stars."

After lan years of investigation, Meaden holds that the secret of the circles les in the interstay of light processing into with soble layers of air overlying the hritis in and around the affected holds.

Other geographic locations have the right mor of conditions to produce such tody vertices, Measter concesses, but not the unclusting million of erope to record their parseng. A circle etched in sand or a now disappears, with the next cust of wind.

Electrical forces are also involved. Meadlin adds As the vortex succe in an it since electrons of the inclocules, suming them into ions that glow in the dark.

Antorne paracies of polen, dust and eas and howeng over the failus accelerate the whether making in hum and abimeter with orange yealow or rad light From a catastrone, the builge in the whittwend may look lake beil aptimum, and is more may sound sensitive to humming, buzzing, or even a sensitive to humming, buzzing, or even a sensitive to humming.

Meden began work on a serious spentitic book about the oncise in 1983, which is due to appear in print some time road year. Meanwhile, he has writlies two shorter works, largely in response to the fantastic claims of Colin Androws and Pit Delgado colled The Cricles Effect and Its Mysteries and Cocles From the Stu.

Numerous other researchers embraice Masslerin Brazy, existing Jahrny Randles and Paul Fabri of the Briel LPC Research Association, who are the authors of Controversy of the Cades and, more recently, Cryp Croter A Mystery Solved Fulle is also the edter and publisher of a new scamille paunal celled. The Crop Watcher, which hereps a weather way on the orcides phanomenon and takes a silaurchy metopological stand.

As for as Fuller and Branies are ochcominal Macatin's thenry site abcounts for a good number of UFOs sighted in Wathre. This because the storag electrical effects that are thought to can bet compass meeties spiritring, set as any site of the are with practing failures, and fill the air with practing, bucching eles.

These introductions are also the soft of UPO reports indeed Pandes points out, crowe append whiles of inpoints out, crowe append whiles of inpoints out, crowe append whiles of any duces the likeson of the xien apposeure). Rendus maintaine, out some outsatrozzal beings while grier mesages over the organist.

We now have heartplace: equivalence on the of angular instruction of a series of a series of the ser

As for the lizer this the crucke averato be moreover, in querity and complexity. Randles offers is namber of down-to-with possibilities that loads allises once making conditions, from pooticed spraying to the removal of hodgerows, to effective/countion buildum in eutropeness on the depletion of the corne layer. Monster of causes that the number of cruckes in not movement, although the number of newly discovered origits is

We we been called the greatest perty popers in history," says Pandies, who finds the geometric regularity of the cristie normal saburiding than the complex formations to be seen among anowtakes. "Theopie would rather come up with the dallest sources possible.

Some of the most sober solutions were aread publicly last June 25, when Measien cotened the first international Conference of the Credits Effect. which drew scientist from as for avery as spann and the London Status in a new top satisfy all. Draw the conference and particular that the conference and the autoinness, which includes clean Artificians and Pati Delagdat were hard the autoinness, which includes clean Artificians and Pati Delagdat were due tool the gathering first decasties down all the delays in the end, Meeden tool the gathering first decasties clow all the delays of the Jahrenov men woods optimise of the Jahrenov men in fluor meetrum, he and, the phanonmen woods optimise the mainfall call in Fundadia of afforded pathering most more of which could be confeded.

Use I issering to these people was such that "commercial American adards esclort a "book profusion" of almost phone science an Parcias directing "There was labed of discussion but you the real study reported." Most of the "roop oncie studies... No card a instand washing the sites and speculating on the works that...

Brow a own conjecture is in line with Meader's—that most of the ortice are the ambots of withlevist. He agrees that windwids form in the less of hills, possibly swifting crops time strokes, part as they form at the comers of tail buildings in Naw York City, where werks of dust and ther form but quarks. ly disappear. However, Snow Biplos many of the more elaborate patients in the comfletile are houses, perpetiated to keep news middle interest in the coop circles alive

The British press is having a great time with these circles," anys Brow. "There is probably an interesting motopological phonomenon behind them that should be isolated, but it's tough to do serious concered in such an asmosphere of seriesturies im."

Dinstepher Church, an opert in tonadolike flows at Marri Unversity in Deford, Ohio, also attended the orckes conference and allog goes along with the vortax idee—LD to a point.

"I think the very bazarre features such as the rectargular swittena and area that book like piscographic or sand percenge." Church seys in a phone interverse, "carri be applianed by natural causes. You occurd call it heeping or you could call it an anthip challenge or

Councel says has a sufficiently dimislated by the posterim to its come laboratory testing. He plane to construct a model of two its frave sequence imise of the sufficient of the Hampstree councyside, where many circles appear. He labeledge model with ministructer the airvals is photoholic schaped depression sufnounded by hits. Then her Trut the modis in a with timely line if the model of a sub as the colores. Unlow emotion is difrom helf a docen directions, and see whether votices appear. The key question, he says, is not whether vortices could create the croles in the carn, but whether they actually form as frequentin as the votice model autocasts.

T alloyat on in Mannhaetr for a while after the conference. Church adds, "and is one one's speared with the second second

The works theory houses is not the only assertific adjunation. Surving the cross two across the English Charing, opproof organizer Jean-Jacques Waaroo of the CHIB (the heart organizer barget) to NASA declares that "no known meteorological phenomenon will perduse rings on the groutid, much less double rings, which do of the rings." Instead, he suggest he crosses may be the posterior in the much of the rings. These he suggest he crosses and the sub-



varioed star-ware-type weaponry

Indeed, when velace observed the genune arcide under a mosscope, he found that bent staks plucked from orop orcles looked as trough they had been twitted and subjected to some form of heating.

The loss source he speculated could be an infrared or microwave beam of high intensity. Such a beam ould be produced by the powerful laare used in experimental dofortow weapone under diversiopment in the United States, the Source Lines and Day by the United Kargdom as well. The bythe experiment and the kibod from balls for a meet difficient difficion.

The all deep with mitters - Weaker equipter: Variate the beam from the grown by orienting at all obtained the inground by orienting at all obtained to the two or the second of the two to the test is faith where it mutual the base is a faith where it mutual the task is a second weaker or the the mission of the beams power (II the power was alweight of the orient of the mission of the beams power (II the power of the beams power of the beams power of the power of the beams power of the beams power of the power of the beams power of the beams power of the beams power of the power of the beams power of the beams power of the beams power of the power of the beams power of the beams power of the beams power of the power of the beams power of the beams power of the power of the beams powe ecale by conclucting experimental sast shoeing of plants with microwave and infared pans.

Weierco bolistica has argument with the fact that the area of greatest cacle intensity coincides with a large Bitteh mittery maniation. His speculations, which his discribes on shill private and untensities, were roundly rejected by the Bitshi and Amarcan researchers intervenend fact this archite.

Offset feetnes lange from the misclevolue (macks left by helicoptees fying upside down) to the mysterous (veryings) of ecological disester cheeled in the com in ancent Burneman script). Some modern observans ching to the notion that the catales are the work of fames or relater some

Two book studying these circles for two years now "notee Archie Rey honorary server follow in physics, and actoriomy at the University of Glasgow, a recoarcher web-known for the interest in the parametrism." (and I cont believe we have any real idea of what they are or whet causes them."

Boy is president of the newly formed Centre for Crop Cricle Studies, which is charged with building up a nationic compared with building up a nationic about all the crop cricles found to date such as the types of costs found to date such as the types of costs from the birtide. Here use, and her endecodors cat confident in the areas where they form. The of the coarser, into chical acts was to main with the featural Farmers Union and naw up a "Coole of Nooboo" for researchers waiting to inspect coales on provide limit ("www.goo.or are uppecied for earning, the setter, to swap the galax closed, and to the setter in swap the galax closed, and to The heat seam of the content's field-

The list state of the center's helps, the list state of the center's helps and the list of the list state of the list of the the center of the tube list state of the grapper indexes at the state of the grapper indexes at the state of the period attractions of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the determined of the state of the state of the state of the determined of the state of the stat



FORGET WHAT YOU KNOW ABOUT ROLE PLAYING GAMESI

The World's Unbound Series by Compass Rose Games, lite is the next evolutionary step in roleplaying games!

You tell the story!

- You decide how complex or simple the plot!
- Your decide how long the game will last!

It is easy to get started more flexible than other sames

- No complex equipment or proces to buy.
- Everything you need is included?

Get acquainted with World's Unboard through our first referance

The Attoti Stone

H is science-fiction adventure

· Experience high adventures

- Encounter alien cultures/
- Unsavel the montery of

The Attoti Stone!

Triclosed is my check or money order for 6 ______ Send me ______genes is \$29,95 each plass \$3.005tripplepardhaecting Offsacut readersts add 5 1975% back

Name		
Addmos		_
City	52,45	e Zp

ALIEN ALMANAC

CINTING OF MONTH OF MUSICIPAL PROVIDENT

have seen. MIB typically appear in pairs or threes and dress in conservative dark suits. They typically drive black Cadillacs or some other large, dark-colored American sedan

Masang sine: An opsode of ammeta neported in association with a UFO abduetion or close encounter. Such gaps in avairanties commonly suffices in a piacemeal fastricor, most writily as a result of hypotop represeen.

Nords. The accord most prominent type of UFC occupant reported after the diministive Grays. The Nordic alers—or Nords for short—Customarky resamble human beings of Scanduraw, an decent. They have take speer and bend har and, unlike the mabaveland drags, are generally perceived as neutral or beneravient.

Technic arean The aartive surface a macka up of alexard large, footall gates containly collicity in side molexity of alexard large, footall the who are anticipated large footall and volcars activity. Borro research lades produced by the tocome the contain the starge parts contentions and the starge parts contentions and the starge parts contentions and the starge parts contentions the anose, they share parts restrictions the provide parts of the formation the concelling and the starge starge and all bases that the promage starge starget at leads out of the starget starget of the starget starget starget starget and the starget starget starget starget starget at leads out of the starget starget starget starget at leads out of the starget starget starget starget starget at leads out of the starget starge

CREDITS

COMPUTE BOOKS IS YOUR AMIGA RESOURCE

-	09116	Elementary Arrige Benc	\$14.92
	00904	First Dock of Armon	\$18.95
	C1226	Earond Dook of Avriga	\$18.00
	60153	Kids and the Arright	\$15 00
	00369	Aviga Progenemer's Date	415.00
	C0459	Advanced Armon Baols	518 R
-	COSXX	Arriga Applications	\$15.00
	C1651	Mapping the Arriga	\$12.00
_	03435	Inside Amiga Graphics	515 00
	01714	Arrept Dealdop Velso	\$18:00

Teld Number of Books	
"hind cost of books ordered	
Bates Tex (NC 16.1 NY tradicity wild sales lead	
Shoping and handling \$2 per look	
Teld Exclored	
(Check or memory order in US) sole to Compute Publications)	tools only made pay
Please pert	
Nova	
Dent Adden	
Dy	

 110 01010 024200 12
Compete Rooks
000 000
2500 McClellen Ave.
Pennseuken, NJ 08109

ch-	station him 20	101	
ŝ	and ally who	100441	ю
	a story that to a	to anythe b	by delaway



EFBLE: The way in ancided clearly usebalant that the Sharin is not band to blobble buck cannot from the rock in the second second from the rock in the connerroy of multi-takenes the oppotion. What part does genomehouse way that part does genomehouse in the second second second second al to see from much water we captility action gets from the genom to the instruments and the genome to the connection gets from the genome to the instruments and the genome to the connection gets from the genome to the connection and the second second the connection of the second second the second connection of the second second second distinct take years and the tableton proand with an efficiency of the connection of the tableton of the ormally genome to the fragment of the connect composition of the connection of the second second second second second second the and with the person of the ormally genome to be second second second second and with the second second

Billine: It's polerisity as inscorts to as the inschrong of age dating. Before that the only turbs we know about the polerism of the standard interpretation, and a two tests from the supportion of the objects in relation to each other. Then all of a subterive poltice method that uses existen adomt to figure out the age of a mod brief, or beneric of theread. There it we inverter or upe calling we no longer say. This hearth might be this old because it resembles one over here. "We now say. "It is fourteen hundred years old, and this one is subseen hundred and fifty years old."

Accessing immediately where the begins of an excession but nonmore extended and accession but nonmore extended and accession of the movement of the an area area shart diggrap excession and accession of the accession movement of the analysis of the accession maker in the accession of the accession accession of the accession of t

It's unifier to label ruge more at them as an encodingual sites and street people to use them. This harpens a lab in Diggst, Lary, field me except where these does any. their team, and at peotic label and them. We re-involved in one of these cases right now Were using names an except between the using names and people of the or the values of these cases right now Were well team of the involved of the teams community. The was a low reacting community. The was a low reacting of the before term initiation of merchand



In important time span. We have lots of data on people who level in the Satewined on the ancent (spytans, but the ink batwain here, right before the first Practice), is what we need to figure out. This site also less in an area affat should be agroubsally devicesed. Gener, Have you been iffluenced by your therming impollagy?

Bibling clobeling and managements to reading antibacting. The harves of the warth and notice gootsguite usually not and reading antibacting. The harves of the activity of the constraints and the activity of the constraints and harves harves of any the register them harves the management of the deriver and turners halo safet. Contraderers and turners halo safet, users, the constraints and the harves harves and the safet and the constraints and the harves harves and the safet and turners have and turners in the safet and on the safet and and the safet and

Orant Why do you call the theory of deearthcation "Redoun beening"?

El-Baz. Changes we don't understand are taking place in the earth's dry lards. The term desertification grass peoclothe false increasion we know what we're taking about it's earnest to plame the "innorati native," while in redepart than we do The most dangerlying in depert environments. The repowerrements and wel-ordershored act ubdon. These agencies are trying to Ind people to help. And they must per Ormit What makes deserts copand? El-Baz. Deperts don't come from poets ribiolog at pierts. Major climate chengof energy the earth receives from the ago the edge of the Sahara, which today les near Timbuktu extended four ered with vegetation are visible from ing in wetter times and the desert is smeller than 6 has been

The most significant piece of the pictols is the environmental behavior at the deserts adge, where the is so frequencies that by doing title you can be needed to then easy thut each desert has to be considered separately, to generalize is to conderm.





Heimitis pigmentosa is a progressive, inherited syn diasoss fan consees night biladness, tumpel vision, and ultimately, biladness Tasky there's no tradment or ture.

But it doesn't have to be that way

Intensive research is under way your support of the RP Foundation could be the great save for throwends of people.

or more information could

50 SP Foundation Fighting Bindness Sett M Aryst Assess Between Waysout 2117

COMMUNICATIONS

CONTINUED FROM PROFESSION

or of drawing should ality seekly from the sais. As one who survest the antiing of two shops in 1942 (one with the fees of nearly in thousand mark). Insee to admit that I encound to the obtained instances (and the first encountry), when I found impell summing in the elastic instantial index Ocean, invert doubt over show the draw has tark to reachly when we were.

John Cotion Vencouver Briteh Columbia Canada

Back From the USSR

We are very giad that it is now possible to buy Crissin the USSR. We want to Bank you for your mission magizine gives us a vow on American science follow and other issues. It is live a wondow min the Linited States.

> Independent Cultural Center Kernerovo

I live in Doloses and I'm Hudrig at Mu estih form (equivalent to seaved year in high estih of the (equivalent to be a PC and deviing). In cost to be a PC and deviming it in costs to be a PC and deviway to the Black Baid Generary Oomder Center Amost every evening. They have an BM KCAI with an B2000 buil often stow us to werk Toot outming and I denig hearts from outend Amonton programmer who can also an Amonton programmer who can also the Amonton programmer who can

Alyocha Verrésov Odersas

We love concests as much as Amercass do When I'm reading Dmis I often find offees to take part in concests, and at once I sigh with distress. These consets are for Americans only. I tank it is in oit the right salat of affans.

> Bons Sidyuk Krev, Uksane

Les an ordinary Soviet young rain 1 live in ordinary Soviet young rain 1 live in ordinary or many difficult to buy in comparementary the many purpose of my writery as an follow. Then our many advertisement in your magazone had commonly it may possible with to country on ordinary or the soviet matter country or in ordinary or the soviet matter country or in ordinary is an experited out country such a magazine for the cause of the rain blood on the cause of the rain blood on and was therefore there in

USSR DO



Now the magazine of the future can be least to the future (stare your lease of OMM is a new Cutation Social Using Celericage of black smaller leadther th full to be over the least in meth constront insofitiely. The sprite is entropsed with the gaid Celefi togo only in each case there is a part handler for

Send year check or many order (20.93 occ): 3 for 10: 95; 6 for 543.99) potpoid USA orders only Formpr extens add 81: 50-additional for partage and handling per one

To CANN WHICH ZEE Jesse Jones Industries, 499 E Etc. Ave. Roke FS, WOM

CIEDT CARD HOLLEIB (orders over \$8) CALL TOLLFIEE LACO 972-666 Or mat your order dealth showing your coal dit seles to goal dit seles to antidi-Action dawawreet

STATEMENT OF OWNERSHIP

THE OMNI ARCADE

BLOODLESS BATTLES Playing war games can have you seeing spots on your screen

In 1998 all IGMI heave.hardh Claratawi the Watth Elonhosi advised a technology. Brat servin again mata thought would make we mpose the rock serving the clauds Watth Weil ar cornaat amulator. Also opens with a remensional work with a measure a Watth Weil ar cornaat amulator. Just doorwer and do parts, how with a measure a watth of the dawn of Left. The parts, how with a measure and the wet-teleourcary a final headand parts in the wet-teleourcary a final headand parts.



See, and personal low verse day realities to vitrat Varipices, yet here existence mer wave convexion in the dataset train than permassive most computer wav genore. In Weigh, towave, the expected police of control masses is tencered by constanting the public of control masses to the period by constanting the public of the public target constanting the public of the public of the public target constanting the benefacies of the public of the target of public of the public of the public of the public of the target of the sugments, and endure the furthering of an ownly demending server offers.

With detailed gradinal and possible 15 D right strategies on the strategies of the strategies of the strategies of the labels are offer of thema is currented by grading the problem gradient provides the strategies of the strategies and become gradient of the strategies of the strat out requires with encourses attracts on party and a two may of board happen. You can also day and a two will and design and they also be the soft between working black this account incomwaiting or sometrowaiting on actives this account incomwaiting or sometrowaiting in some of the black observation working or sometrowaiting and the black observation working and the comparison gama. These physics are disable these time comparing physics, on commonism the and new thirm working the comparison.

PREVIEWS Burrings the Force. Beywalker wonnobus Wing Conversion side breathairing 3 G graphic datail and a movietike musical acore to its part-of-view interrelater combat (Ovice Bysteins, IBM)

Shanghai // brings 13 new ble formations a layout construction set, new graphics, and two new game variations to the elassic computer board game (Activision, IBM)

PC compatible owners who are have CD-RCM playwe now can savor the point-and-alock explanation of 7ba Merivia. The graphy expanded CD version includes belingual datague (English and Japanese), 258 color graphrey, and e dataging morrised musical scare (Activision, IBM with CD BCM player).

THP OF THE MONTH When designing plots in Criss mawere's Wrigs, intakly devote all your onto points to guinary. Boing fast on the trigger is an invaluable surveal asset while hom to exact plotting dolts. Bobb and daman

DAMNED

THE OMNI ARCADE

SIMULATED PIGSKIN. The only physical danger in these football games is developing a sore finger



Lat the high-process beet Monsky right grinkon. The Monsky right grinkon. The ord of las can by the high-state and fragmense on the later in a face fragg gaving of water new botted annual gaving on the soldenes for carryagebased gares systems. Not of the historic fragmense for the month (HEG) and charmed Type (HE) Accord Fourteen weeks TV Sports Postberg payer statistics to convery views of the electronic statium's video screen, Pay Abbor Poctosi tackes a sense of pigake measure Mich and long hange perspectives put you on the acministic provided word the nake you theavenword for a departicle way of the pigak contains inmenta the view again closes in as you guide the ball canree through an opening in the deformer in-

Shifting views holp wouldbe bruisers get the big picture, but they also tend to discoect as inexperienced. Play Action warnor Likewae, a sight delay in control-part to sponer demands a penol of adjustment. Even so, a war and playbook and other stratings and statistical onlong make /Nay Action Footbalt one of the most complete Ninoendo and complete Ninoendo.

TV Sports Football new over, socres to gent in exclament Strocky, response to exclacentrols and an up closeand personal www of the faid combane with obtained "Introducts waves to throw you headlong into the acten With a Tarbo Tap accesssory and lotte control pads as many as the first can taak video heartee at in-

As in the computer wersmooth? Water Postski, newcomers may find the paseing control of their flat with heir of practice of the grane effectively to challen the timing and tpothing one the timing and the time term and the time of the term and the time and particularly when guiding a single term through an earthe large teacon

Contrain rootball games sched jed to the field of the rootball seature and software Football seatures sometois team playbooks, egnt obles was playa, and softwared of arthcall imbligence for each player. Accolate is *Mele Data's* Big Play Factadr (NES) multises an updown and left-rooth scorilling playbald, a teach-down display of the feed, and ammute nd playware alasts.

PREVEWS

Your measers should you choose to aboopt it Records of MAGI and added the evel Darose the Dark Table Schwards Darose the Dark Table Schwards Darose the Dark Table Schwards Dirktip Josen it do mash for plot-intermonation, but its pone-drivers 2-D gapting and schwards action com bres come of the back fea Juree of American and Japan meen role-adjung gartes

The Akin Lynx cathloge of Rgardowine be the best home version yet of the immen anade game Walch out for dogs, hot note, two movems, and near motional while plathing your papers in to mellibuses and through wendows. The oaks gamphon and last movies and through vened ous-plathers.

Super Marce Brothers meets Torus In Netlenso 8 Dr. Mario, Maich strapes and solors do a Mario medic slowly losses witames into your medicane boots. It bolis Mai this Sowet import Tetre, but other obstacles, such as Youb/steadne Virusde, grue Dr. Mario a screensign terames all his own.

I towait the entry kirimation and certoor graphics of Nelendor's Stekkr Jistish X Ref Dankol and other data Stek Instaglin a three-dimensional landscape as the replation context as seen by guideng horizon and the replation context as seen by guideng horizon and the replation context as seen by guideng horizon and the replation of the names melakol you States Rashet N Reh has some of the mail improvement even featured in a Natiencia centralize — Book Landstrom

THE OMNI ARCADE

IS A HOT-WIRED DILL KOSHER? Making your pickle glow in the dark could have some sengus, but spectacular, consequences

senous, our spectacular, consequences

When have in college. Survey another littlewed in the nooms, to located that days by electropular little days to have a minimum of the origination arough the animality of the origination arough the animality electropular the days electropular Amaging the pickle goals and begins to make, and has days electropy to an electropy the pickle goals and begins to make, and the any electropy to an electropy the pickle goals and begins to make, and the any electropy to an electropy the pickle goals and begins to make, and the any electropy to an any electropy to any electropy to any electropy to the days.

This is the strangest scisnos demonstration I have over seen. Never published in any science journal that I know of, it is word, surprising, and unexplement.

Tent Euges, is professor of physical thin is nevering on physical thin is nevering on the basic states in the physical has been been on the physical has been by the statement on a coupeter of years. Edge writes a physical basic states and the physical states and the physical sector are tast the basic never writers up the perphase reverse causes, will be apply that on the perphase of the physical sector upset and writers upstates an experiment without packates an experiment without packates an experiment without the full constraints without packates an experiment without the full basic states the physical sector the physical sectors are physical packates an experiment without the full basic sectors are setting to the physical sectors are physical sectors and the physical sectors are packates and experiment without the full sectors are setting to the physical sectors are physica

Edge bröught more quastions than answers. Offer objects such as paints, appeads, and palens yield annan officials, but a politik detmoty works best Why? A picka a weil sally and acato-occid you got the glowing from twy, a well occurriser that hadn't been solated in salt water or in acato-occid rengen??

The light moreover, al-

WARNING

THE EXPERIMENTS DESCRED IN THIS ARTICLE WHER FERFORMED BY GULLFED BESEARCHERS AND SOLENCE TEACHERS DO NOT ATTEMPT TO DUPI CATE THEM YOURSEF. LIVE ELECTRICTY IS EXTERNELY DAN-STRECUS.

ways appears of order to the the https/dbin, rock with its has taing tasket contract? However, in the second second second second pill and definition of the second pill of the picket definition of the contract of the picket definition and of the picket definition of the base? However here its faund that picket the less faund that picket the less faund that be the mark and contract global and the picket and the base of pickets, work the second the picket and the base of pickets with bettmation of the picket and the base of pickets with betttable of pickets with bettbase. Flogs pickets and the second the picket and the base of pickets with bettbase of pickets with bett-

Barvo Jacks of Worths, Integs, a service consult and to AN Wown's Worth's Neekablesh TV as on int sure what causes the light and a service the service methods that generation an intesang say accord the intertode that generation and the surray postion for actitic service and the service methods that generation the surray postion the service methods that generation the service and the generation of the service and the service service and the generation of the service and the service and gen fame.

I'm trying to make some pickles now out in my garige. Jacobs adda "Timusing a recept off the tade of a vinegar both that in substitating other sells copper direct generation of the substitating other sells copper direct generations. Involte and inturminate They? Deduce generations. Involte public but at least they? I good for footing. If these glow they about have a difment noise.

Jeff Apping: a chemit at the University of Nannaby in Lawrgoon, first though the soft-wrenger combinities was cruanal, but now he house that the soft house he that down in Uning set will was drawn at the soft and software you can be soft about software and the software software he has a ten's nearly so chemistic as in the public The public offuse the type: and more at ever.

These gotes in servery yelder special in servery and seawards "Appling any "Sodarm one pick up electrons into the passing current turning them no sodarm abons is an exceed atsis," Appling acclaris The only way the atoms can rotum to the most stable state is by group of a photom-mind proof. The light

Apping has written a pa per, "Sedum D Line Emasion from Pickles " and in tende to extend to The Jose and of Characteria Excession box or Posting of fortware to a routing of fortware the tender of the tender of the tender of the tender of the mediate of the tender of the mediate of the tender of the mediate of the tender of the activity of the tender of the second and warring it tup and i on a tender of the activity of the second and warring it tup and i

We consequence and a reliable time not been reliable substantions not been reliable substantion for the substantiable substantiable is reliable substantiable substantiable in the substantiable substantiable and substantiable substantiable and substantiable substantiable rediable substantiable and in substantiable substantiable registrantiable registran

Thirdly all depend on the precise relation the process and the process and the process and the process and the process of the

GIFT GUIDE



The 9-AIL Rodor Detector Incorporate Information (Argentine and concerne) auger heterodyna technology, with USCNY webaw ID III cocket to III on other unwarved ugraan historicericular on UB barred interprinterio, audorived verming, dicernitariang between X is K bands, one fault aufor mutoschrauba autor, ich weffmand Durrey, autor addition, mounting hadhwee is included for mosmy historiceri, Sugerield weffer thes. 1979 67



The PRCOSCY online computer service has something for each member of your (only). How hundless of valuable features, including a regulativupdated increations, gried values frem deterried of online metchands, neuevalues frem deterried of online metchands, neuevalues frem deterried of online metchands, neuewardhine and sports updated continually, gomes, and so much more Parchaes of Start-Ja Nit of all PRCDREY service display for a tore near you, coli 1.2007/PROBE

rebon COMPUTER FRENDS' universal automatic tables to Falses. Ana seven incusands of datas to Falses and the sevenes of a full time of to contribute retaining Single control of the full time of to briversal \$75.00 per free ontoing onder to have to data Single and any of the ontoing onder to have to data Single and any of the ontoing onder to have



withings makes as partied a gift as the remarkable Min Magite Trainlight With Its handsome gift box and sturning workly of colosy and szes, the present of a rugaid, dependiable Min Magite Is center to whish the biftence of the give for a lifetime.


GIFT GUIDE

The future of gaming is even soprification chaings, both to Monthey cover soprification chaings, both to Monthey the secarit nutifier edge schwarz, a game kiegu, gaphiles and schwart for the patiental computer Call Hade BAR fut more information and a HEE court of au mouter cathing. Logitures base and advanced indreger of Jian Roun to Ligite or multiple calculations, practice attill, computer letting of the strategies and many. Tabalant, way wan franch? Bacapas forum "Employ the bort tack to help converted in the game." The Deriver table 56 million compositions, if critice data to the strate on account data to the strate of the 56 million of the 56 million Matchies H 67 005-6720.



fulue with an off new person staff computer role playing grain from 5% is a blook Project Team. COUNDOWN TO DOOMDAY is available overbale, teah To older will your software intote or call 1420 24428 for Vision Kit celles (USA and Conside) BUCK MOSTRIA and XVV- are intotematic subtrained for the team. Software are intotematic subparatification.





memories, not data! The Orympu Infinity Zoom 200 This comerce's outforcus acom contrues 1 of whith a 3ame to 8thm zoom liese and two fash modes, inclusing tilen and Auto-S, to spinfconfly websize remote common unit, you can be a point and the the spin sector unit, you can be a point and the the sector unit, you can be a point and the the sector unit.





gives you 3D graphics to realistic, so advanced you't think you're on the course. Access botware guarantees you'r absolutely lowe if ar your manws backil to get an the acuse with LINES vill your local leader or call, not nea. 1400 400-4600 Base charge of an entry parent, from the biefty number of allowing time, in the seary-to-use schwarz program. Exploit you, famous Leveladow S scare hyporthese. Smithith Avaisable for BM FC and compatible. Monorhow National Schwarz (Section 2014), Schwarz (





Hero-Menter Spaces System The office level the dil not sound but you't also copressite is and soo. Reacte placement, and genuine and Mah Here or call sources and the office of the office reviews and decire into "Design Accounties, 1226 Comments Stars (CH 6024 the universe EZCosmos 3 0 displays the workers of collabel sphere for any date, form anywhere on Earth EZCosmos bring the Universe to your IBMcomparties for any 569 82, coll = 802.069/EAM for advantig Information. EZCosmos, Future Tiends Schkarre, PC Bits (13), coll solt, 7575115



EZCOSMOS view of the lintd Nebula

STAR TECH

ACCESSING THE FUTURE

BABY LE MANS

Babies deserve designer protection, tee. The Baby Bab Car Sart (balaw) samt teddlors op to alse meaths. Cest 6 90. Cestett Derenafa B. Y., Deosberg, The Netherlands; B33 Y 500.6.

KIDDIE KEYBOARD

This meeth's Star Tack profiles a handfaid of lessovoitve wiseers freen Internatives/Dealge mographe's onseal review, hackating this haybes of far fearto saves-year-olds. Costest fyracose Usivarity, Indestriel Dealge Department, Syracuse, NY, (315) 443-2485.

FAX WITH

With its touchsensitive screee this feed mills mothing (obeva) allown you to perseelly write as draw your owe "sadi" faces. It eves opposes to screet!. Contexts ID Ture, See Freeclase, CA2 (418) 397-1236.

USER-FRIENDLY X RAY

With its legenious ars, the CX-ray imagleg System (shave) is easily pleased ever iseassestific erees. Costect: Philips Madical, Shaltes, CT/ (203) 936-7475.



TOUCH TV

Piny game shows with the lateractive Televisice Termisel (shove). Cests \$400. Cestsct: IN, Meurotel View, CA; (415) 060-1000.

HANDS-OFF

For the motor-impaired or engress who here a mouse The Herdisel Republics (1647) mouse the serner with a till or and of the herd. A spakes ''yat'' or ''oa'' dess the rest. Costart: Were Laborateries, Lewell, MA; (508) 455-5000.

LAST WORD

INQUIRING MINDS Why doesn't a watched pot boil? What caused the ozone hole?

Merry Merris Drea in Photochylon, where ohe constantly seeks questionable entimers.



The Hamon Genome Project and the superconducting super collider will makes it possible for *hiture* accentes to conduct maps of humen genes and to cleacifue the universe is beginnings.

All the Issochang new information with work to bifers of new questtions. From new of in however, "old" questions with have only one answer. There will be no been for portraversy or dataste as scientas attempt to answer each queetion practice.

The following questions have been answered in the last few manutes and are being published here, with their answers, so you can gut wondering shout them

Classifier: Why do some pospile part on weights an weight which different ware early all as much as they ware which against an automatihere the some billions of the order in their bodies. A process called biologinhum, which comminas and argum to concurs inside weight in produce his, concurs inside weight different and argum to concentrative and argum to and an argum to appendix to a process cut any on the mostly of the year bodies have made and the some the some the some the year weight no matter have made two system instead, thay have containtee systems which not onby containtees waters which not ontrebene water and calonea into the arresphare. This, of course, one area on unitsvorable ormeronment for people with weight peoplemia. Gasetteen: Why does a watched bot novel bo?

Answer: When a person welches a pot while waterg for it to boil the interse actuation beened from his oyes causes a vectorin own the systex of the fauld, melting it impossible for boding to take place Caustion: Why are dogs considered mark is bail filling?

Answer: Psychologists have hand dogs to function well in human secular through years of psychecknergy, they have issuphdogs to behave as if they exceed man well-cut oncean und to obey his commands without question its behaved their no offee withmat can be trimmed to psil on such a good ed.

Question: Why are thundardeads dark? Annuar: Thursdordea via are dark

Answer: Thunderclouds are deriv because they are penindus rather than luminous. Ortimosity produces darkness, while luminosity medicates.

Basenen: Why doas bottled soda table befor then soda in a tah? Answer: Soda in a bottle contains tray beckna. Bocause they are unable to grow in optique contein ers, conned soda doas not have thet extra Savar incredient

Question. What caused the hole in the course laws?

Answer The fished heard round the world head at Concord had no known origin it also had no known dastration until recently when the builet was descrived on the planet Jupiter. This build caused a small holo in the cocrelayer that has been growing langer ware yoak.

Question: What does the earth a atmosphere consist dt?

Areaver Overall, the earth's stmosphere is 74 percent triencliness

21 percent baligerence, and b percent lazmess.

Question, la it possible to measure peer pressure?

Arrower: Yes peer pressure can be measured by plong a child in a vacuum. then measures the arrows of interval pressure his bedy easits. This amount is subtacted hom there are pressured, and the gree of peer pressured, and the meast is the dogree of peer pressure on that child. If the measured peer pressure exceeds 60, is a good data to leave the child in the account of the wear or to

Question: Why can't we serve that the earth is rotizing and moving through space?

Asswer, Humans normally have the samale, although rate individuals possess the sixth terrels. SSE' it is the serverith series. SSE' it is the serverith series, result, that detects relation and revolution on planets. So far, no humans tense been found to posnear the series found to postern on enters.

Question: Why is fast food not healthy for you?

Answer: It has always been insent that hashe makes waste Therefore, the more quickly food is propered, the more walk if Contains. The sverage list/food hemburger is cosked so quickly that is almost 100 percent waste.

Question Why is a penny saved a penny exceed?

Answer This is an optical illusion caused by the fact that all some mound and from other angles it appears elliptical just as a perry earned close. This weater perceives both permiss to be equal in every weater.

Question. Have computers taken over the world?

Arswer: Yos Anyone even your next door neighbor could be a computer in disguise. So it is wise to avoid people who make beeping, humming, or classing assurts 50

