SPECIAL SPACE ISSUE

POWER FROM SPACE: NOW!

AMAZING ARGENTINE DINOSAURS

FUTURE FINANCE: THE RETURN OF BARTER



SPACE AGE MYTHS & ISCONCEPTIONS CONTROVERSIAL INTERVIEWS SEX, DRUGS, AND EVOLUTION ENVIRONMENTAL BREAKTHROUGH: GREEN HOUSING



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DEPARTMENTS

. First Wood Otypenella 10 Communications 12 Funds The Loracia Manual ron **Political Science** www.ol Electronic Universe 26 Books By Jamos Salts Sivie

freit at a Narw rowy archrisoclaral frm. 27 Continuum 79

Antimatter 94 Garnes

IQ-lost answers







We focus on some rather unaskall approve leafest types this month, delivering solar power to the Earth via an obtiting available, correcting come widely held beliefs about speceflight, and cellebrating the move that crystalkeed our diverse about server. (Art and theto credits used R3)

FEATURES

A Clean, Well-Lighted Space By Ben Bove Solar power satellites U.S. energy needs, and a bagter tasee

Space Mytha and Masconceptions

How much of what you know

42 2001 et 25 By Piers Bacony A look back at the malang of an epic

Jose Bonsparte: Maater of the Mesozoic By Don Lessern In Argentina, a man with no formal

paleontological training is chaping up the works's workdast dinosaura

Fiction: The Diane Arbus Salcide Portfolio Dy Marc Lardsw

Somatia's Cry By Manon Long Photos give twose to the voceloss."

Interview By Suice Miller

FIRST WORD

CHEMISTRY IMAGINED:

By Roald Hoffmann and Vivian Torrence

n 1947 I was teo yoars old. We United States Or maybe word go altainable, my stopfather even work in the mines in Chies

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My Point back DOTH MY WHOTING something desper 1 arm and Mare coming isolation of a tenth of a grim of califium lines a lost of orude pitchblende They put the children

to bed and walked book to these laboratory. I must cuote now from

lock The cloor squeeked, as if had squeaked thousands of their realm, to their dream

"Don't boht the larges" Mashe added with a little laugh

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The sadily was more entranclong ago, Badtum had acces-It was sportaneously luminous my class monitors were placed on tables or on abstance paper

Look Look!" the young

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Her companion's hard light-

P-S (TESCIO

Years have peaked. The law whose interest in science was steried by German translations of pled scientist and a French-Polwh women chemest is clow. He monario these books, and sees that hey are heplocraphies. The tomance is or the fadum, but wa-

Reported from the book, Chem-Scionce by Roald Hoffmann and Copyright 1993 by Roeld Hollmann and Vivan Tomanos





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Programmers in Court of Court





BEADERS' WRITES

Question for Clinton, asking about the past. and oetting real

Into the Great Wide Onen

fares Aktro thasks he has the solution heavy lifter? Maybe our real problem is, es, and deekon." Maybe cur real proben redesigns " If post is the centre Issue, why has Contress been spendand launched it and met former post-

Mary Cortiss

In why December 1992 (6600, author undoublectly have problems with ethnic They massacred 1.5 million Armoniana in 1915 Throughout Armenian history. Armenians are and lime asso.

The Real McCov

Your Newember 1952 issue concerned a fascination article about pybercunks and the techno-underground. While we gree with the characterization of these the hermage of the cowboy We, too. nie the namer work of programs and databases. However, we seek not to circurrent bacters and week twuch. We heip the rench owner bring products to practical and andratic lactorings and us. This is the antifheers of Ray/'s de-

Brave New World

I have never been so instated to write ing part of a generation (im a 22-yearold college graduate) interference and the aware of a fundamental change. Feelhaim of this new autionation. Tem Mad-Scarbo Accel (November 1992) a tartantic and terrbly realistic pace of treasuring to see that there are other mind up the cears of real process. Withcont Cowards

Grenory Oupples New Berlind MADO

FUNDS

BARTER EXCHANGES Gateway to a cashless society?

By Linda Marsa

The 1984 Eurman Olympics in Los Angeles was the trier motion: Obympicad to actually turn a lock profit for the host only-interim size some strewd memuwing by Olympic ofbasis who reliad on batter 39 tack incomerging for 31%Tmillion ion 30 maio compensations

Today, more than 240,000 bueresses, mrgang from dapana, lawyera, catarera, dentrata, restaurants, accountants, hotels, and building contraction to household

Barter, ef oosrae, is a practice s obt as business Basti-and Peter Minud's slick swap of 24 worth of oleth and trinkets for the deed to Manastan island still ranks as the deal

David Gottmitten of Am, Barnada Innis, Molocrnell Douglas, Molocrnell Douglas, During Manager ductod Bill billion of ductod Bill billion of ductod Bill billion of ductod Bill billion of ductod Billion of managers and ductod Billion of ductod Billiono of ductod Billiono of ductod Billiono of ductod Billiono o

For Fortune 500 cor-

provided. The derivative of tastreuner to be a drive With service bocause in needed of unbacking unclassible investments and provide a safe provem the bright. The cathsing of the service the service of the biory of the service the service of the biory of the service the service of the service have been unabacitor of the service of the service of the service have been unabacitor of the service of the service of the service have been unabacitor of the service o lass sociaty in the tworty-first cantury Barter, once relegated to the back door of the economic underground, has gone legit

"Barber won't size is baing tupnase Bur is can give ones that are surviving a roal compatible dige, bookure it allows them to buy retail with their own wholesele costs." says Stighten Fredhad president of Los Angelenbasiad DXI (translational, which has more than 12.000 members and 7.5 branches. Founded in 2000 150 was the feer moain barIntri Gen add up For ownerde a griptic designer und batter conta is in 2010 CD down-instrumet on a house, and a music loader were on sphote cells in Hervyoosnesy of har loade batter or change. Last year, New York's Lowngton House acquired a 3150,000 computer system is use change for Stoch acquired o house share the Lowngton alwept har vocant mont. Is comnered to the computer or y real oppose was payr in houseleaport to tary the mome-

f you think your business



ter exchange and is still the largest of the nation's estimated 400 tracing networks

Typesky, exchanges handle record leasening, expediate the fore of trades, and promote clients drough clientories and rewardstass in return, they take a 10-bit (E-percent alice off the log of each hade. All immessione are now reported to the IES, so betemps in no longer a conversiont lisk docket.

People offer goods and services for "credits" or "dollars" that can be leaded on berler exchances. And those "trade dolocad benefit from barber, check, ou the trace record of a made acchange before you pan. Theil out how long the exchange has been accan do be the minaccan do be the work have a classify of a category of the former bart offer, products and sensore you can genmade to framework you would off-armise bar for in cast?

A new state-of-theart software system, UltraTrade, designed for supercomputers, may ultrately evan vansform the way we

do business. About 400 millional companies in Southern California are already celline with Utility Traditional trust metal of the southern control of the southern southern obtained in working permeter addibactar annual metal of the southern bactar annual metal of the southern Were on the odge of southern of the workings which were the southern with southern will also oft exponentially." And southern the oggine in the odge will also oft exponentially." And spotskiely new the oggine in the

POLITICAL SCIENCE

WARRIORS OF PEACE

is civilian life the continuation of war by other means?

By Tom Dworetzky

The hexator spirit long coldeparted in version and some transfer to the antime business. Next, to could be attransfer hexator, to could be attransfer hexator, to could be attransfer a location taking with the task Ardene a location and delanguated for low at the Antimy Wart College, wide an onsay in the Last Ardene essances, this an entry equidid in parakekapart and of the police objectments ended where we at the operation of the policy.

Will all this preceiventry in Somalia and elsowhere sap the military warrier's lighting saint? He quotes several military experts who point out the conflict and potential diargess of mergy peoplekaping with war making hore is more chillingly compailing than the peepege from an exand winning easily by LL Col Chartes E Duelps, if written at the National War College entfield. The Origins of the American Milary Court of 2012

The bottom irre The coup was frorout of the all too meny "nontractional cluber" people forced the military to play, to the poet that people in the military no longer considered themselves were on "Mercevent they no longer." considered themselves apolitical professionals

activity of the expansion of the mullarger for the expansion of the mullarger formation is welled thread inclose book will be the device of the device of the set of the set of the constraint of their role on a first one device of their role on a first one device of their role on a first shift there we don't were to ob, and her one pair a weat doney others shift there we don't were to ob, and there one first role of the constraint for the first of the set of the set of the set.

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Today there is much policy upneewal related to the military-industion many retrieve working together from many retrieve working together or to today possible in Somalia, chase drug barons to the South, interviewe as global police in the Middle East and eleweness Moreover, in an alterrat to finity patour house in order and develop an industrial packy worthy of the name, our truly improvement alleb systems are at last being pushed away. Non and lease James Bord military research in James Bord military research to date bord bord and the should be developed and bord ap lastinology we can achiely tak about not set

The enus barriers makes tooever, is worth Thering about Weennors, just like teted and also melens made sensitive libral times, in a marking the tasket with the times of the implicit to decover the way of the oxistant warner. Examinant service that that all this perceivaging in Somman and the perceivaging in Somman and the constraints of the in Status and the service of the service is set of the service of the service of the service and the to the survey of the Constant constraints.

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ELECTRONIC UNIVERSE

PLAYING THE FIELD

Online gaming matches your wits against real opponents

By Gregg Keizer

Register of the second second

The personal computer and videxpanse methicitie may be the basit thing anos someone figured

With Ba Sierra Hebeerk's Red Eaver, a multiplayer World War It game, you Mapo War againat obers via modert.



out how to play collinity with a deck of cands, but they to too much like Resultances to dece forcegn policy isolatories. Compare and webcomes commiswant liker, play, like a brane dead one-make pong, and rarely adjust to your playing shyle. Winning may be overything, but I gaits boring abar earth.

Damachid compares in the enwere. Pather than play against the antifectual file term hold captive on the hard data, you tell you tell you of water term with other compare answers. Lange a modern and the telephote here, you compare recommunicates with other, the ministig machines. Data Toxes back and other dorose the witephone here grang scan travers to phone here grang scan travers to phone here grang scan travers to your appendix compare and, in turn pathing his or here on war acteur.

Doing all this yourself can be more trouble than the ensuing game is worth. You must find an opponent, annange a time to play, and wade through the interoscies of telecommunications-no easy task for the best of us. A better way to thed willing victoms is through some sort of electronic cleannohouse.

Portunative, they already solid Several online several-mode data a networks hild spatilities of hundreds of thousands of subscrittores of thousands of subscrittau-offer enhancement as well as information. Services live Compulsione, Prodigy, and Carlie and works gumes some of them custanding: games, theil let you day other people, not the IPC

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Chice you connect with TSN, you're dramg a'r a odarful map di fwr park To anfor a borboulur Land you just point to riwrth the mouse end chok. Loggng en find nang string TSN is stor- emplow, in fact, than even Poodge the eenret do-use greneral purpose ontra samed.

TBN's unique make elisce fecture lets you create a portrait that represents you in the games you play. With a composite ket legitore used by the police, you mix and match head shapes, here styles, ciching, and festares in build your reference.

TEN features a general area that everywhere a general area that everywhere can bockes, and da the moment times galaxia. Lands that you pay sets to entor. The everyprocegates in area, backed away in the Clubhosas features egit aard and board games-bindge, chees, sheders, est backgeimmen air fourthat you play with others. Entor the weiging row, check but anyone hanging around, then challenge tam or her to a game. While you play, you can tak to each other by typing in short messages. You can all to-with the players' parmission-within a came in process.

The first leaded are what means that the leaded are what means that a goody cleaner bail carry play carry parent lead to the play carry parent lead to the leaded of the leader of the l

At 313 for 30 hours of nonprime time per month and with additional time numming \$2 to 37 per hour. TSN can get experience Add 94 per month to reach Land you use and its cases can real the phone bit for a long distance remance. Forsunately, you can tell TSN to cat you of after a set amount auth month.

BOOKS

FIVES IN WONDERLAND

Jack Womack shows us our own world through a warped looking glass

By James Sallis



With summer forces more plan succeled ten films pop muse, media imanery-the rost is such he some-Value of ence herably wears and

Published early this year by In BOOKS EMISSOY (IS II) DOYD





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all, through metaphor, whether igon, history or art. In his four novels to class. Jack Warnack hes inengine, that in principle can endation, high and low comedy. feeling imposed upon him by the edge is obviously where Jack Wormsok chocease to work

man ike him around. We're all rust a little safer for if. DO

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STYLE

GREEN HOUSES

Mavarick architects show how style can save energy

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Accounting to Bardanoas, andreas like our collects at conditioning

Indeed energy efficiency has searce, the design firm has soots (Thirips reached such a sorton presidency, Badanes bepresidential basemant, but I think they'l go back up,' he save New the goel is to use renewable energy sources and phase out the bad technologies

During the Reagan era, Daval on the snowy Colorado plain. for narrow carport stwind a twinetin ry bark of windows Surbeens





Americans think the only way to survive in hot climates is to live in artificially cooled houses, cars, and offices 9

Jense Pred dags office for the second second out is visible Ainstrong Moleco-some lines years on end. Nurfice into the same of a ridge top is the Secold Crar Hourse' Baitary, Lares with against force specific dame winds. The secold second second







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Energy experiments was also many too the all begin access of the organization of the o

tonzed window shades and built in vacuuming and indoor plantwatering systems

They find the grant and the set of the set o

On a larger code, Badaries believes more plants could generde oncupil lowgen exhaust to help repair basis in the codincaused by the conduction indueg, that excupit to build houses that says therapy. When they a nuce, the align. Cernent and aummun production confrites to basis werman?

To that, and, Jerroy Davit hopes to drift for more base mebenetisment of to more work with the storing and to the weather of the storing and to the weather of the and davit precision fingular law of creates and there.¹ Building prior to build recision in Meson with the which of a davities have on thouses with the which of a children to put place when postion to build recision in Meson with the the of a davities. The bission that the the of the stories to put place when posther to build recision in Meson with the the of the office of the meson of the storing to comtain the the office of the story to comtain the storing the storing to com-



CONTINUUM

"And all things, whatsoever ye shall ask in prayer, believing, ye shall receive." —Matthew 21.22

Don I believe the trype. Namer Ged rar proyer is dead in their houlded toghters miss according to a tauty by the National Operanic Research Contrar beads in Chrange Paulaid by Antow Chealey Catholic press and bed-ealing novelits researches messaurid the meaning of prayae among the septose and the taitful in Arresca—6.000 popple from allegaments of the meaning outchickness

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Inveen 1055 and 1970 by a rate of 37 percent to 44 percent Depaties in project time started in deckne will youngsters born in the early Portes and ended with the "Leave It to Server" carenthon of the Pfas.

"Prayse, I subpact, comes from our knowledge that we are larded creatures and from our yearing to always enit," Creative rays, "Prayer grains up the same finative are in loadh with the forces that run the universe. In loadh hance, it graves up a general of energing and press."

A stering coreclessen of the study reveals that the moof or project can even be brund in a solutiative amounts arrong agrospics and admetis. Fourteen percent of those with the neighbor pay even days as call authority to other with an alternative neighbor belief. About 35 percent of those who dary a belief in this state death pray taky, along with another 41 percent of those who have service doubte about the brunce the cave.

If these people do not believe in God or in life after death, who or what are they praying to? "They may be praying to whom it may concern." Greekey muses weldy "They may be hedging their beta-graining isochranoualy.



almost out of habit, aspectally in times of dependency when they have no ponirol of He's events "

The register processories to more an end of the second sec

When Masters of the noted sex study team Masters and Johnson agrees. "Anything that increases bonding improves ones sex life. Eflective sexual interaction in a committed relationship is one of the beat

nonverbal communication tools you can imagine "

Contany to popular before, those who proy often one manifesty to popular before, those who proy often one manifesty to popular the ADD publics. The study indemne Phages toaches on that we are all onest, streng Parry Diructo is New York. On you can us to key, Hew and Directo is New York. On you can set to key, Hew and offenen Youn harms who adjust? If is molecular infeltor if are ADD patient on an immas on duals how AI of operand Diods strended strength and the strength of operand Diods strended strength and the strength of the operand Diods strended strength and the strength of the strength operand Diods strended strength and the strength of the strength operands.

The diversity that is not write at an orient. "Notes warm must because they're balles," says Mont Tills guiding lone behind the cognitive behavior therapy strate and one patho (with National Hossiel (of the basis) won't accept the fact that there meet probably are not path, no deman, no Barra Casa. Proceiv who dows/ty believe that Dod with heb them are in domait. They book to be the disease norms in a method with dows/ty believe that Dod with heb them are in domait. They book to be the disease norms to per-in-Diversity of DeMon



CONTINUUM



Fossikation preserved even the block of warm-ansare bet

OLD BLOOD

To in large degree, examines, examines have pecod bigether the have pecod bigether the haddying baseline—free meansload remains of animals and plants. But now, using space-age tools in paskontalngat has begun what may be a new chapter in the study of early organisms lasking at need labout.

Trying to determine how freedramin takes place. Prid Wilby of the Open University in Miton Keynee England, recently trained an Uniperviently scenning electron microscope on the faceshized nominity of 100 mitlion yeared tech from the Character de tech for the tech for the

cient sea

northapattern Brozil Ho case not only the usual toeslated borna, but bloot cells and optimiel cells from the miscles of blood vessels as well. Postny tames ha discarded the northance surrounding the cells and over mischardhes Stracbros imack the cells thermatives.

"These are the molt spectocular and bestpreserved local tissues ever reported." Wilby cealits

"They in the devy ones into a of the old match and teacher like blood cells are preserved on well as born? Because the bestadaon appennity boug place were quickly after the taft led. Withly thrist there is a good possibility that the cells DV4 might have been preserved curving the process and might accordingly be rothweable to study. "Id like to have a go at thit" he steps. "but I have to go the caldh first."—Bill useron

FINALLY, SOMETHING YOUR CAT CAN DO FOR YOU

Cat owners normally visit the vet to keep their cat healthy but abon they may vaccrise hear cat to keep themselves healthy as well.

Coto are the permary head of the person's Tempelasson gonde Although the passage relident creates problems in calls, its legge can cause looptomous in humans Normally a mid infection in car be service for people

could stop cats from shedding the eggs

The vaccure, developed party by 3cesh further is Koreas thive two Modula Contrar and Entire Heldmont School uses immunity for term of the parameters in which form of the parameters in the mouse has a start must also more parameters to the parameter representation capabeer is an experience of the school of the parameters in the school of the school

ANCIENT ROWANS CALLED COMETS "HAIRY SIARS" AND CONSIDERED THEM LVE. POPE CAURTUS II IS BELIEVED TO HAVE EXCOMMUNICATED HALLY'S COMET IN 1456 AS AN AGENT OF THE DEVIL

ASTRONAUTS ORBITING THE EARTH HAVE REPORTED BEING ABLE TO SEE THE WAKES OF SHIPS IN THE OCEANS BELOW.

with immatute or suppressed immaine systems it is aspecially thesetering to program women because the tests can become infected resulting in bindness and incrital relatation.

A call insected with the panalite normally shace type to 10 million organ is to local. Until involvemention of the cleasane here depended upon exclusion properties to word contact with east filter or contaminated tool and to many amenal that may have ingelablic the organ. However, researchers have local. parasite s reproductive cycle vecometing cate could greatly reduce the incidence of toxoplasmosis in humans

vecone,' Firstell says "We aren't veconating cats for the cats' sales We are doing if to the benefit of the people atound them.'

The producer of the vaccrie, Paravisi of Fort Coline Colorado hopes to have it on the minket within two years

-Marcha A Green

28 0451



Why lower horses at Famesy?' The answer is blower in the word

RED SOX HIT A

The Hoston Hed Box mode history as one of basebail's power-hiting bases, but nowadays players hit forwor balls out of Pernagy Terk Darit balmes the hiteau, says Plat Lagoon. Blame the architects, baccause the problem is aeptohemire.

The approximate and appropriate of the approximate of the approximate

computer model of tryball trajectories on a typical summar evening

The new club creates a versu, thorte-ring fly balls by a to 12 feet, they discovered which blowing over the club with down taken or boward home plate, Lagace or planes The olynamic vortex planes The olynamic vortex planes the olynamic vortex planes to the downerd.

THE EARTH'S WEIGHT INCREASES BY ABOUT 25 TONS EACH DAY, THS EXTRA WEIGHT IS COMPOSED MAINLY OF SPACE DUST, TINY SPECKS THAT ARE TOO, SWALL TO SEE

backwards, or both To reduce the vortex, Lagace proposes cerving the club's root into a curve lise the top of an arphine wing. However, it looks as though the Red Sox won't take the advice "His heary could be right," advanced by the right," advanced by the right of the same set of the president of public relations however, he says, the Rid box anort about to make diamatic and expensive changes is the mouthneeded new bailding."on the been of them?."

--- Yarosn Taslaky

M.ROBOT

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McConards engineering deperimant in Oak Brook litrois, developed the system, known as automoted resbuilted crew before

The crew deserves a break indug up ANCH helps it out THE STATUNICA, A SPECIES OF ANTIELOPE NATIVE TO AFRICA, CAN SLEEP UNDERWATER

(ARCI) Restaurants in Colonada, Indena, Ministen-La, and Cermany now have ARCI online, Inditert says, and the system in "available to only restaurant in our system. It's up to the individual owner-coerents".

Some coservers have veced concern link ARCH may be the hartering of a huly automated brown new MoNord Peet deprese hereagens of much needed pilos "Absolutely not," Halbert blees Actually, site areas, ARCH greek McChanadh amployees "a transmission bednology. The onew just lookinology. The onew just lookinology. The onew just

McDonald's





TECTING LEMONG

That deeming used can looks lear a great daal but m John Planitiahi of Pro

lemon The gauge consists of containing a high-powered magnat, and a functions on point or carroutsgod Mor wil weeken the attraction

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bargareng tool," Planabahi

NGER STROKES.

Contrary to convertional coaches, it may be the knoth and C. Nelson of Pere State

nant footure in stroke Inrolly," nove Mal. The bester is partyring significant risesta With the by the reasonment was about

care a year who acend an 1 the same, the distance maximizing stoke legists."

BUG FEELERS IN SPACE

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made of supercon-

chicatro material port correlers wich it wafes wavelengths like a

strokes, height also plays a Netion says noting that rochos tel --- George Nobles

coys finad arruthaneously.

NASA pine coston peri array to detect armospherio

-Janaday Tasabika





Ever since Aerop wrote his Infeed to the turtie. Some spokes to scriething beaches their bodies down to a state fright waters for threa months. what owen. his usua ability alreast hirtigs to h-hernate in frozen noncle projonned netoda "They Flooria Adaste Llawproty in

when other anenals last only metabolism by 90 percent energy membering proper conserve his energy expencells. The turtle's both ARAB Inca sensoraina crat way of obtaineng palores.

Marcrook_scribe turles... the brain story received

ciorgen deprivation, we carri survival," Lutz says "Buying even a minute or two extra

GOER BREASTS

he's found a sale and cons pressi molanta suo meriation through hypnosis

ohants back to publish where they visualize they broasts increase in size "

home ocume after madino. hyprosis and treast enlarge med, clarms an astounding and an message trust broasts react; the desired

states. Women who are the case. But if they re nearly Many in the Importmention

"You can alter many functions of the body with the this case if a questionable

the sort of tune," Broke continues "There are encuche hypnosis, but when you go favor it "-- Don Waghan

"Mittal Long (Borr) man with your eyes chirt's avera WITH YOUR DAYLOUT WITH YOUR DAYLOUT



In tide, tea have easy related an introdectile distribution steeping team on the team where an access world. The trumph of Apablo set to paties the technological capability to unstantiative time grateful advecturile in content of the rest of the solar system and worlds beyond in any intragetor interaction and worlds beyond in any intragetor interactions from any other states and the solar system and worlds was absorbed, much of the solar system and worlds to content of the terms of the terms.

The Space Exploritions Initiative, a previous of initiative supported by the National Averonautics and Space Administration, will retern America to the openadors course of exploration ensuring the Apollo data. It respects the peneering space and watch that Report build our country by celling for a retern in the Report out of addition penetry space in any minimum of the Apolio of the addition penetry by celling for a retern to the Apolio of Mark

The Space Exploration Instative will

... essuer American leadership is addition of technology, it will provide a new dependence for the defense and acceptoe industry, dhine the development of imutades of engineering incendence, create handwide of thousands of defend gots in high-additional granes, and incense until nembers of students to see their education behaviory and neoportee their own poerceal. Instrease our insurings of the universe, the solar system and curanetes terroral insignation. Arrays of belongogen on the lans solated will ended us to drive some of the prestate sectors of the universe. The solate of the prestate sectors and the universe belong converse in the investigation of the solate of operations in the investor that are one to belong could insigning ender the instrement contition.

... eventually make available resources from space that can solve the most pressuring pediatron we fact here on Earth. Solar power horn spaces, laken reactors powered by reads found on the Mose, and Laken metals found in well quanties on selected can be used to see the burden of Earth's devectment.

The Earth is just one world, but our solar system contains decreme and the universe at large billions. It is shown from one good lock at their related right say that the fluct with belong to the society that dates to wething faith in the origide Earth pro the vest demonstrative provide the process of the fluctuation of the fluctuation children and these of the fluctuation is seen to it that, they have the place among the sites.

Therefore, we the undersigned enthusiaaboally ondorse the Space Exploration Initiative and urge Congress and the Administration to provide full support for all projects recursed for the molementation.

Name (Print)	Addrees	Signature
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5	~	Dept OM-85
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builting a suis-power setritie (DPG) The satelife house house encough to demonstrate the teaching of generating electrical power migatos for conmum of 300 megawath to the ground it should be chefly funded by long tam, low-rithma generating the work-

Of all the problems that isso the United States and the ontro darts as we approach the twenty-less contary, onengs in the most crucial. Energy is the key to industrial development, transportation, a healthy economy, and high loring standards. Energy-sch receives fourthis, energy-scor socialises four-dar

While both the industrialized and developing relicions gine innersangly departisent on Niddle Eastern of, if is becoming paintuly obvious that lossel fuele ruch as percloaus politikale the attrophere and contribute to global greenhouse warming that will orestically change the work's climate

Thus, we face a crucial diamma as we ruth toward the twenty/inst certiry. We corefanity need more energy to slave of economic disaster, but producno is can lead to ecological clearater.

There are two potential registerments for forsal task in registerments for forsal task in registerments the electrical utility industry, the beenergy accurate the start, remains tabled in the laboratory. To cash, no energy accurate the start, remains tabled in the laboratory. To cash, no energy accurate the start, remains tabled in the laboratory. To cash, no percent the produces as an unch energy as a tables to run the laboratory or all one percent and percent and court the forecase. And you have what courts the forecase. And you have been been been been been to be original as was exempted in .

That leaves noise energy

Date cells an weder used in spacecent Russia Maringoe statuo generaler more than ten locates tom morederimore than ten locates tom moretigened an expected with sourapplications, clouds and right africal applications, clouds and right africal grand-based cole power as a replacement for basis/s heart-lastic and rushpower statistics, however, sould orch power statistics, however, sould orch west satisfies of sources.

Weld safeger to space The SPS would generate electricity from surlight in space and beam that energy to receiving stations on Earth The transmission beam should openet all microwave frequency, although some thought has also been given to using large beams.

. Scier-power setallities would generate

ecomous amounts of electrical power focuands of megawatts delivered to the ground Corresponding the societies would be aby Studies done in the serlight, osegnethous situations of up to 15 miles long, largor then Nervisiton 16 and, osegneth to send the riggswetts of electrical power to Earth. Ten ggawatts would provide all the electrical power needed by the state of Correctiation on New York Cite.

Anterna frame receiving the microwave framework in beam would be please in microle uncopulated arease. White Sands Proving Giound, New Mosico, or another desert tells could house the first account state out / Uternativ, an lenna forms could floet on platforms of above from maker casets of tells.

While the idea of building such a huge shuture in galow right sound tartected, there are no tandersen's couldn't be built the necessary control source to built the necessary control source to no 'showledgeara', although the progerm would represent a moment of the weighted effect comparation to the April to hume indireg proport of the 1065.

Like Apolic, the program should geneasts excitament and support among the public. The apility to generate mainties amounts of electrical power in space is an obvious benefit to the general public. Delivering power clearly should please environmentativethough they would undoubdity have concerne at first about beaming memotives thread the about beaming memotions thread the about beaming memotions thread the about beaming memotions and the about beaming memory and the about the ab

The motosene beam, however, would be on Orhans that beak sould by through the without herm at its edge at power denny would be DD Threa Sover than that of a latitude interaction one with its door closed. The callelle designed would be this interacepter where there would be this extremolitation with the motosene. Even in the transdential delivering ground reach in this at the power sector and the source at a source of the source at a s

Building an SPS would involve four lay technologies, solar cells microwave generators and convertions, topico launcharis, and space construction the techniques for building very large structures in orbit.

The United States is one of the world headers intocket launchers and space construction techniques, alfreugh flause locals the current heavyweight chempion among rocket boost ars the Diverge can lift on the order of 75 tors into low Earth orbit.

And while U.S. astronaufs have procticed some space construction techinques during shuttle missions in prep-

Seacellish has came a tang way since **Jales Verno** ion to the maan in a rock et shin. Br the public still harbars same dreathally tions about space frave natians that castd importe aur vital, cantion al space

SPACE MYTHS AND MISCONCEPTIONS

Once upon a time, people diri'i know much about spacelityht. The nergianise of the Space Nace were left to "rocket dota abounded. Some people thought tok moon handing was leved, some thought not, ets burned bake of thousand dothe thits zame thought Soviet A bombe encled overhead; some thought this space industry would ourse cancer and produce perfect bab bearings to runnaticitative engines.

A generation later, people know a great deal more about spacetlight. But curously, I've found no roduction in crazy common ideas. Visitors to the NASA center in Houston (where I work) want to know



where the zero-G room and the launch pads are, and other people still think rockets take off from Gape Canaveral. People trikk them's no gravity in specio, or that all fildion causes the flames seen during admospheric entry, or that human bodies exposed to a vacuum blow up and burst like balloons.

It turns out that while the public now does indeed know a lot more about space flight, nuch of what it knows is wrong. Before, there were vast naschass of inmoorni ignorance about space. But now, the field of public knowledge is cluttered with misconceptions, mythe, and misnormation. From my variate point as a space popularizer and a friend of many NA-SA tour guides, public operan is make usd—and national appeor policy doesions made—by superficial impressores gained from oversimplified haids into newscass acuted tritls docades-old laulty analogues, and science-friction sorth whites and producers

As the old Appainthan Mountains provide goals "It and what you don't how that makes you load has a houling what you do know that and so it for the out-of-the-world subject of spacehight provides continuing proof of the werrard's weldow.

Con national television a few years ago, i referred to the wear provert to descreetly call a U.B. comprisonment of the specidic monstress about mit dangered Soviet manned species mit sont that to be to the relation to that tuch that it would have taken me serveal minute to unawel it all. The Sovel capsus was created to Earth, the sac caraan A refered general others next. The strend general others, met to them agreed. They're deal met. The strend gively

But there was no test oruse for earn, as any specifiely court dails have test them. They've got totals they haven the fail to the "Leasanged the sublence explement which test gene works solence was not the commonate solence to working their way out of the producement." If bet the term test" to suble back on faith the term test" to suble back on faith the term test" to suble back on faith the term test.

Plotty of "obvicue" spacehight misperceptions user lead to innote that humort-they can lead to bad decisions. Terrest-one 73 years ago the other, leas yeat-show how little real progreas has been made

Chi Anany 15, 1002, an annoyaes the control Pattern control and an annoyaes the control Pattern control and an annoyaes the control Pattern control and annoyaes the control Pattern in the control of the the control of the control of the control of the the control of the manual control of the c Such sphorant ontenans of Goddant's work scated off many supporters for ten years until Charles. Lindbergh coursgeoutly laid his own presides on the ine to boost Goddent's

Ninosi 50 years later where two memory laws watching have been as a set of the same allows watching have been as a set to be seeper from laws roles and set to be set of the same for the set of the transport of the same the set that the transport of the same the set that is a research in the two leads location of the same space of the same to be that is the mean statement of the same the same statement of the same the same statement of the same statement for an assessment of the same statement for an assessment of the same statement for an assessment of the same statement for an assessment of the same statement of the same statemen

we should avoid shoup settings of modern self-nghteousness, however,

Gravity still exists in space. It keeps satellikes from flying etraight off into interstellar empthess. What's missing is weight.?

while contemporary miscanception about space physics califinal to appear on the newspaper's colonal page (and, of course alsowhere) in 1992, a contemprise also where the plan for a permanent space station di allow that there might be one indivitings, gwing to the absence of gravity on a space station.

The may has been the service of the service of the service service service of the service service service. The service service many the service service many service services the service service service service services of the service service service services of the service service service services of the service service service service services and services of the service service service service services of the service service service service services of the service services of services service services service servi

ably pulled toward Earth by grawityto fail over the horizon. The grounds curved writhmani along the Earth's round auface offsets the estillates the benefit he gravity, loops satellites to benefit he gravity, loops satellites to all the taken to understate the fundamental concept means that meny offthere are satellite. There is all the

The gravey mysh #1 Createrniying but dying mysh is that bookleak with nuclary weappens or step calmates, can have now particular ground sarphs such as weappens, the Creater weap it have is no gravely in space, but its impossible in the neal work descept at a precise detance over the equator (the ro-called considerative orbit).

Re-gasky myth #2. For hose fasceeded by the possibilities of wir m parts. Entransis analogies have been spectral depond the forestern protection depond the forestern protection depond the forestern oppy because a contine shuck by a weapon excellator fails and have weapon excellator fails and hence would stay morts, dead or alve, whole or in second

The particle restrict AP II the reductance obtained if participations and the temp because the fragments foot instand intrlinguity why cards use and top is it tuble on here and picks up all the testin estigates by/F But where you reacher that each pacer of pipel here threads a participation manufacture speed in different locabases and directions, the "obvious soblem" executions.

This proves myth AA. According to the tild according opportunity and according to the tild according opportunity and the tild according opportunity according to the according to the tild according to according to the tild according to according to the according to according t

Out to Lourch

Ack enjore today where Counties or the Mayfower safed from and the likely answer is that they don't know and the not important anyway, because their destination held grozer againcance Bid ask anyone where the Accillo expeditors took off or from where the top the same tool of or from where the top the same tool of an inom where the same tool of an inom where the same tool of the same tool of an inom where the same tool of the same tool of an inom where the same tool of the same tool of an inom where the same tool of the same tool o





ARTICLE BY PIERS BIZONY

Arthur C. The first Clorke, Studiey Kubrick, ead MGM mede the most realistic of all scienceliction films. Journal Base

Two millice years age: A trihe of primitive ope-mee struggle for survival is a harsh, barree londscore.

Without woreieg: A tull hieck sich oppeors. It is utterly eliee. It exerts o mysterious ieflueece.

leflucece. time this fe cee of lith" our ancient o pe oncestors: redi-The first into glimmerings theo of smale

Weopees ere korn: Beee cudgels or hose-shoped eucleor spoceships—It's oll the seme. Our history smoas but e

frogmoot of cosmic time.

The close of the twentieth century: A block slob is oe the meen. Scinatists artimato its one of 2 million veors Teuched by the sue for the first time is ones. this //Manage lith" screeches o powerful redio sigeel ieto suece oed then folls silent ferever

Observispeceship Discovery bound for Jupiter: A humon crew unawers of the Monolith's signol, and HAL, a selfawore computer, who keows the truth.

Boos cudgels fureieg os their mesfers: To protect its murders all hut one of Discovery's crew. Dove Bowmon must murdor HAL. Humonity Is regoleedby violeece.

le Jupiter orbit: Bowmoe occounters, thee esters, o Mosolith, passion through e dexilleg vertex of twistad time eed spoce, cely to empresle o hotel reema Where he lives out the rest of his mortal life ie momeets. A An opportunition hegins....

The moment of death: Bowmon rehore os Sturchild. The estrai voyager's reture: The blue placet Earth.

Uetil Stueley Kahrick come elces oed rewrote the rules. SF films fall for the mest port lete the R-meyle stockode Cheep plywood reckets shuddered ecress sets glued tonether out of old ann cortoos, ood breve spece A heroes strede beldly with goldfish howls over their heads

But in 1981, Rases launched into orbit Yun Gapann, a genuine spacemen in a real rocket. Prosident John F. Kanshould commit taelf to achieving the goal before this doo ade is cut, of landing is man on the moon.

All of a sudden, that of Buck Poonts shift became a very sensus concern. Spaceflicht now rode high on the acenda caos were being alracped into complicated capelles and then blasted into the sky alop grant pillars of fierne.

It was time for Hollywood to take more of an interest in

At this critical and evolution area, a hyphy talenteri himmelser. approached the MGM Studio with an idea

Stepley Kubeck had well scored a big hit with Doctor Strangelove, or. How I Learned to Stop Worwing and Love the

As in Hollowshe's way, a cleector who access a smark bit pets to write his own troket-for one more move at least ie ever made. The film would look at our future out among Kubrick planned to apend two wards and 56 million of MGM's

the costs and time acales Kutrick had in mind. Six million back then But an ancient Hollwood rule applied If MGM didn't



else probably would. An agreement was struck, MGM a able risk to bes own mation-oldure carrier

In reality, Kubnok's film look four years to make, not two speci those weets feading off host is others in his own compeny as time dragged on and Kubrick's budget olimbed. And when at last at the end of March 1958 the MRM houses finally got for see what they/d out their money mic-2071. A Space Odyssey-they couldn't hours out if they were looking all the biggest cleaster in MGM's history or at one of the createst movies over mede

Clarke in Coving, station that he warrow in make "the coverball Good Science Fiction Movie " The cleaply intelligent life for some years. Way back in 1996. British move orain Alexander Walker found Kubrick restlessly sifting through Jap size of special effects. Arthur Clarke lound himself terroled out of his tropical island retreat and into the maelstrom about fifteen minutes." Kubrick and Clarke first met on Appl 22, 1964, and talked for eight solid hours about space, asapreement to oplaborate

Thus, two greatly talented ergos entered into a collaboraless intellectual compat. ("Every fime I get through a sea bollant, if occasionally unstable

> Arthur C. Clarke (left) and Stepley Kubrick (inset, right) conspired to less than o disconception of the second se revolution: an accurate. if speculative and vistemitiu transcondent. projection of future in space. The degree of technical detail incornerated in the poperaft and

Clarke would first tensell wetteng to wron anywhere gifter than in the same world as Stanley Kubrick, yet the two men-

Clarke spread to write a noval, with plenty of input from device work of turning it into a movie script. Clarke figured on adving away the writing in a year or so. Describ his worldwrite any taken on a sevence / open seer. Clarke had to idea heid shi be colshing the manuscript three years later

Kubrick, putting his legendary perfectionism into literary er his only farget. In the summer of 1965, the 5/3/ assemwoori North London, New 4 was the Art Department's turn to "do it right, do it better then do it all over again," until their deactor's baleful, dark-eyed gaze turned into a ourt nod

Bearing the brunt of this was Tony Masters, chief productask of ornanization abred of him. But Kubrick was detarmined to find additional experts capable of consumo up thoroughly realistic spaceships. After an introduction team Clarke, German-born Harry Lange came on board. trash from visualizing advanced concepts for NASA. commentat started Lange "But designers who know about spacecraft systems? Now Iter's a

Lance was rarred by his friend Frederick Ordway a skelad PB men

gear depicted an these and the preceding pages had no precedent in film. and still has no equal. The mechines looked like they would really work, Nor did 2001's symbolic, ambiguous elien Manolith

evelve from previous Hallywood axtreterrestriols, Everything cheut the film broke new ground. 2001: A Seece Odyssey is obout idees, os is much of the hest literery science fiction and as such has retained much of its power to maye, preveke, inspire, iranicelly, perheps.

partnership was forged. There would be times ahead when with impressive accidence credenteric, and he persuaded dozerrs of major industries to assist in putting 2001 together Boeing, Grumman, Honeywell, and IBM were just some of the hit committees who helped out. (Although IBM waar)] too happy when HAL started disconnecting his end-users.)

> de was detailed to an unprocedented depres. The "mmalure" ended up 54 feet in length Before Stor Wass before Alian the good ship Discovery was the most impressive spacemait ever put on spreen. She still looks convinging today, a quarter of a century after she was first assembled over a pe-

> For the infenor of the styp. Kubrick sought a means of depicting artificial gravity. The result was the incredible "contributer set a spinoing drum about 40 feet in clameter, complate with tetra, consoles, and working futures. Including senated more than 30 long? The idea behind the certification was simple enough Actors moved along the Investmil No. ranhy strengthering the skaron Actors Keir Dulies and Gary Lockwood appeared to walk noht around the walk

into anaromute and then autoended upside down from the on two steel sizes in knew them from other in the

discilary spreaded, which was perify semaricable bearing in mind that computer graphics hardly exeffects expert. Doucles

obie. **Wuitimete Six** tles' meyie" remains as relevent te contemporary nudlences es when it wes first released. 2001 continues to attract lerge television oudlences. prempt often heated debeta. delight the eye, pravake the mind. Who could ask more of a film?



Trumbull, spent many months or mating these displays on film, ready for back-projecting into the control panels.

Instituted was in the early wentiles Dough and Xahorkia greatent neared, though the was gat a bibly his worked a streve young man, a colleague the double was been work to be double bidras have been work to back a draw have been work to back a his way highest dankates. A periorbeat haves higher dankate in the way higher dankate in poor well, creating among makple shier effects the unrogetable "Bacaya".

Boverni other advances in celenar activitizity was developed gene/Cally for the never, including a massive man backte. (This one too harized backt to coerce hatter (The of its dedepons was in ventre remark William inni-end waste saaroe friction under Africen terratespes was timed artisma name of Music Lender V. All those Africen terratespes was timed artisma and of Music Lender V. All those Africen terratespes was timed artispo aerog, it with classification aixed the problems of grage on toother

Goritrary to expectations though it was old fasthaned techniques which foutnets lawcred for the overced oph cel effects to as to mantain absolute control over quality. Hand parted "travoling matter" kept terms of young at students busy for months. Kubrick was right. Their painstaking work sor now standards of poemago evoletiono

But before so much as one have of him could be exposed, the preproduction for this complex move required a whole year of set designing, building, model making and co forth. Live action photography was then completed in shout eight months. It took an additional tee years to wrap up the special oflivers and writes.

The result? One of the most beautful movies ever seen A marathen ore ative effort that paid off on screen

The answer is that he had thrown it all away-deliberately. He went through the script along at the dallogue unity in ready three hours of movie, barely thety multiple south of site remained. Rubrick was determined to hit his audiance with storg visual impery and let here own imperprises for the globe

This may well have been one of the seasons why he delayed publication of the completed novel for some weeks attem the movies release, much to Clarke's hustation. (Accually street prosume of overwork was probably the moprifactor And i all worked out in the end. "Stanley and I are laughing all the way to the bank.")

Critics often find that thering for themselves is too much like work. Initial critical reaction was often hostfel. "Duit, pretantious amout hyprotically boring." the noisavers preclamed

But other volcer/sociarrisid 2001 se one of the gessiest and most important moves ever made /

The move had isometring to say," and as is turned out, there were pionty of people willing to later.

Clarke had provided a framwork of childlee works of they to the tap planels and meetings with benevolent oreesame from another world. He had redutined the possibilities of mysical coperence for a yield ets. But Kubrick feavored the trapplet accession with a



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decomforting reminder that such adventures could cost us more than we bangained for. The triamph of our intellect, he seemed to say, might actually cost us our Aumenthy logit.

Nameth cyncer lidor tradem condifor --his glado i communicationtodfor --his glado i communicationticad nootheal faller drag tugo gentad f HAL 9000 a compate comister mobiler. Though ha verze was as ably score human than har zannöhidi mobiler. Though ha verze was as an expensee restaurat, HAL cando which him all the wantboors and fastiliss which ha faal-and-blado companies which ha faal-and-blado companies seemed to have abandored

Kullink transfer off this ambiguous particle of our future with one of emermis is most entraordinary images of hope and wonder—the Stanchild at the Nith and turning its gardia, welse-eved gaze directly on the autience.

All this was rather too much for one cis aspecting a tabilitorial so-h ackenture MGM was very nervous until palte reaction began to ecositete, stowy bid savely. Minds changed As one naful reveneer admitted, "tworybody habas 2007 ecospit ecospite."

The movie slipped safety into the biggrossing category Safe for the movie, that is MGM was huppely in debt. By 1968, ther proud, natring ion was deforseios against corporate pouchers, 2001 was one of the old-style studie's will tighticant achievements

Noti was MSW the only bag studio in onse as the bubdent H666 solew to a classi Wall Street barriers were no long which was a sole of the accommodate there Well Cost occurs All Holywood worberty into its makes, And all America with the time and the sole of the minimum of the makes, And all America with model at Ventra case in stage. There went the authence in the land who ensued that phose

¹⁰ 2007 * 4 Since Coyney ust as much the mixth block the on a workh (was much block the one is workh) than mixth block the one is workh (was mixth block the one of the second se



The young Tippels who so apprecise and 2007b locating images were in a lists recisioner model a year or so bios. There is an approximate the source of an item the deb, or also they were comung home in body bags. The Summer of Love-had childed into vertice (And the 1970s of others, the space-shuffe desates, and Chernbody were pail around the hotproperty.

Tucked way doep in publicly forth Landau, pailed like some philogother-lang in he wat palace of loo loss spindnors, Sarley Kulonek opnost and a vision of the fature that was a limetry bong made radinatest by current everts, even as his carriers relied. Datada the scalar, the work during the update of the scalar, the work timest, the update the scalar, the work timest of the update the scalar scalar spin of the scalar spin of scalar spin of

2001 is an informaty personal work of art. Wary low himmalions can command such measure budgets without equally massaw initiations from their backware Kubeck is the exception. MCM may have hought here year payed was one their sobaceware you data wat initiation dealer working dream of humar/and a exclutions yearing.

Even Artur Classe — no blushing violei temsell when i comes to opecuteing about he universe — well, sinn the could only summar blubrick is indomitable, al-embraging will. "There's a wong way to do things, a right way, and there's Sanaky's way.

Today 2001 starts is the episne of BF Barnaking. Though testary takdenied its diright nake today testary takdenied its diright nake today and the painteen is still represents a duzdring anifolds the unit failure anges. Admitody the prospect of listerching a stip biol. Recovery search a more do turn disease that this see, but Arhucarke has ported out that a hall-cenlary dely in our plane is nother here or these in the lig Softmer of hings.

2017 A Space Conservations and penetry interview in 1969. Its not petation spacehips, about here we will get into space, of a also about why hall emission an reported issue to our generation, and for generations is come. The make prompt us not power larger our place in the openet, should larger a set of the set of the openlast I was also be the openet of the openbal. Here our harmenty may well be openet be opened on the of

Arthur C Diarke commented in 1968. "I don't pretend that we have the unowers, but the quastions are certainly worth thinking about."

Stanley Kubrick in 1968 *1 2001 has strived your emotions, your subconscious, your mythological yearrings, heri it has succended * DO

magine a word

and Wenderful dimosaut built hologing kee a lumbering tractroseur but with a huge double row of aprime clown file medic. Umil kees in 1991, such a starage creature was larown only in regimmas And umit the accompanying parking in Omni by artist Bean Franczski, It had nover been parked

Heal the bad mode of model balan days up, cannot dedefine the second second second second Anappatie-basic to the processing direct of one of the last the second second second the second second

possible evogetion of China: and the United States house such a broad sampling of drossure access the longth of than 155 millionyaar megi And it is Borspace who is chinkly responsible for closing the jawarrag gap in our knowledge of South of million years "Amost angleAnded he is responable for Argentine becomport the set routhru in the

ing the start control of dimession, sease University of Permaylvaria dimession patientstole grant Peer Deckson. The United States is oblining, but Bongathile shows that Arganthia is so right in chrosever. from so many

Top is one day." Benepartia discoverse parte a portrat di evolution gene ito over stanga way for miliona of years on an isolatoi oprimeri. His discasar finda are al the more astuuriterite and the more astuuriterite and the more astuurity and a standard bongartos is not accomplined collegation. For bongartos cleans ino formal rearing in placentidey and no particular interinat in discovers. Biologiche

h. the part of the intropol lossifies explorer Distinguished, issiheat, his is a man of incoded, the popperions He issge plasses and thinning pais, politicity part is the antipolitic oblight part is an antipolitic plant is and the more and him the air of an assadems, which he is, by practice in not taking, for months a wear

While hord America's looking denous memoryon are bivener subtraction to the bivener subtraction of the bivener subtraction of the biveners and the biveners of the biveners and the biveners of the biveners and the biveners biveners and the biv Is the word Bongperie histoeff usors (hore, to characterize in silve Though his the averse released to the Agentine National Mussimm of National Bosinnees in Buerrox Arriss, his curbeds. But model as to describe the main Tatin this word all words as to describe the main Tahegapate Bongroup of the Hospital Bongroup

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Inorgin them, but is do certury that is not be based in New York is the Section of New York is the Sec

chasing fossils, and

The fusition of the second sec

rest with phenomenal success, ion: the epidest drossurs to the pocular tism. Annapasanut in the ionischer of the desidati willing of the Moon, Barene and Bonaparto s mucharte ionin hundicato of fossis Their hauf hettinund the boardhilly preserved skull of Herensaarus, a prestavo with a huge doublie-tinge saw

Ending spectacular drosaurs in the Volley of the Mean as nothing new for Bernaparte His disean several times since the late 1950e and found, in sedments save 215 million years old some possurepoid—the giunt set and seuropoid. I like Bromteesnui. The togges of these

environment, he loard he aid and piece of a lander brainit presention of Some of Boospaths Some of Boospaths beat fluid have been try Regenters for uncovered the fluid head beat beat try Regenters for uncovered the fluid head databases form head present present present (BP) Full yours, head present present present (BP) Full yours, head the solid org them in and the could ong them in any Adexance of South Databases of South Participants and the could be the solid later in could be solid later in could be the s

notice perhaps (#) left boot

who lumbered on four solid-

name Massinus or Transite leard" A decisite later in southern Argenha American discussion of South American discussions from the motile usua of alrostaus the motile usua of alrostaus to SS million years B P)—o SS million years B P)—o this motile years and the primitive 14-body child by the name Patholysessue. Stanger atti an the discours Bongpartia's Jourd for the last directus.

Article By Don Lessem



IF IT'S DINOSAURS YOU WANT ARGENTINA IS THE PLACE TO GO.

period, the Crotecours (135 to 65 million years 6 P3.

Abassarus (northwestern Agentina isaard), oodissoowsord with Jaime Poseil, si a lidio precisioni essi than eight feet long. It sportad tembie claws as alharp as that of la North American kele Cretaoecus contemporary 'kiler claw, ' Darkonychus'

But Broupente has Source warder harbins yet in warder harbins yet in tol coad prelogents who incread prelogents who parts of a drossaw host me in hi not avail prelokation to hi harbin prelokation Broupents went ho resource and soon to sign prelokation Broupents went ho resource harmone and song stock Browpents wentwentwentwe harmone and song stock Browpents wentwentwe harmone and story at a host Browpent automatic harbin brow more the wentwe harmone and story at a host Browpent automatic harbin brow more the wentwe harmone and story at a host Browpent automatic harbin brow more the wentwe harmone and the boots at a story and very add known in Carrotharaw—The methearting bat?

Density if the Lings Constitution was reached an ensurery and the program of the constitution and promotes and the constitution and promotes and the constitution of the set of the constitution of the electric of the constitution of the electric of the constitution of the electric of the constitution of the product and the log are were any Delaw and more and the constitution of the the product and any electric of the constitution of the constitution of the the product and any Perings the size of the set of the constitution of the constitution of the the product and any Perings the size of the set of the size of the set of the size of the Perings the size of the size of the text of the size of the size of the text of the size of the size of the pering the size of the size of the pering the size of the size of the pering the size of the size of the size of the pering the size of the size of the size of the size of the pering the size of the size of the size of the size of the pering the size of the size of the size of the size of the pering the size of the size of the size of the size of the pering the size of the size

Ingens While North Amen-

can killer dirosaurs had long preixicusty dropped from lour lingers to three, and by the end of dirosaur time to just two on 7 rist. Comoteurus had a tourlincered hand

Another add, blg predater Bioregene and F. Novie found, Abelicasma, was equally peculiar to South America In North America, the brontboardies sampoids, the begait oreatrose over to walk the earth, seem to have disappeared by the authy Chatacoous Period to be replaced by duci-balled dimoseus and there ian

But It bouth Anenco, one hanny of gene thousans users to three prospend users to three prospend taunds? In the largest family approximate the second second Anos, have been than Anos, have been than Anos, have the second may be an anonma, it toreased on all bars were tuby Statistic in sizethy appear to have simpled from 20 is 70 feet lang as blonged in the saturation blongents have simpled blongents have simpled

Jose Bonaparte and one of his lexts and the oddest stancasurs The beggest of Bons-

partie is Nanosur Finds. Antanthalance goanstaut may have been the hashwell oncour of them all. Thickback bones five fact high suggest an semial of SD tons spread over a body narry 100 real thing. The wendest is the newsy named Antangaseurs, Tielf 30 feat long and adorned with a clothie row of enormough lengthened spines stop its back bones.

Bongaria also unconand the first lowers, Belacouand the first lowers, Belacouand to the second powersham who aported beorgaria to the second second barry of parts and a subcond lawy of read or parts the barry source an as back and flarks, and anoted of period barry of the read-and flarks, and poly thereases, some fully available loadsor. And poly thereases are barry and done loadsor. And poly and there is the subs of terms bails used to grind term tell-squared food.

detour, as Bonaparte has theorated, is the' physical and genetic toole ton of South American dirosaurs from their North Americain obusitis

According to Boreperties, and to battle honores of how contenents laterned, the work was an extra dele much Rongales, and the send honores and the send prosurupado Hale Inore Borugania battle But some honores in Southern had Condeans, and the northern, Laasuas and the work But some works spit in teories content brake super solution and the northern, Laasuas and the northern, Laasuas content brake super solution plant Kin-contents, cyclobil plant Kin-contents, cyclobil plant Kin-contents, cyclobil

Beneparts and others bund evidence of a dinosaur community pool isn'to this bottom of the world that would have accurated not long after this supercontensist applit it was boned gant boseners, short-ament puries and severa

endenic forms of crocodies, bads, and mammals, all absent from the northere contraint. In solison unbi nearly the end of choosult stays, these anmals not only persented. they posspeed

Why lid the tennosure rings only is acuthern reached? The exclution of amori may halo explain the success of the fanosaure is discussed in the fanosaure over other plant-string dimosaure is South America Or, as Benupate says. "perfogs twee the christs that was different in South America and not to the duck bit's leng." Indeed climbological studee notcate South America may how base theather than the northern continent.

It wan't her amor that make threakers in during the southern Hermiphere "Compared to an advigotative faithware to approve the processor," says comis, an expansion of produtiny demonant that appendixtry demonant that any any any approximative thread with a brane the southread with a brane the southread with a brane the south thread with a brane the south thread with a brane the south thread with a brane the south appendix any appendix of a thread thread thread thread thread to advise the evelopee on a speed coal of here behavior, yet here than is very your all "

Acid what if the pockade pockade and the pockade and pockade and pockade and pockade of Carotoxica and the hole-mean optic server hole-mean optic

At the very end of denseur days. North America and South America energination munited as they are today And so Bongashe Inda doub-left as at south as Patagona just as denoteur diogens in Dah have found a titacesare of a genus that prosumbly worked its way noth from Bouth America.

ple have had access to Bonapana's scientific public calants, hal thispets on the evolution of chocesurs are not welfklown. And Bonoparities communication with limited by its notations initiate by its notations grouping approximate. Most perioritograms may support a scoret system Most a scoret system for a scoret syste

Bereipsnin's opposition to distribute let l'em to declare la participate in the definitive desaures, the definitive secrità las la on discessi si and a 1980 societte effort to redeline discussi nelatorstipes Bays Reter Doction an echto of the test, Tionesperie always did tings the treachant5-tue way and wasn't about to bo pressured to change "

sent known abroad on applauded at home. Gaven rather be working on memfragments tappaged from the rosaurs and thancsauts in twells of a new kind of mem-Panagerte points with olee to three troy lobes on the moter, a festure so pervisar that he can iteck of "rothing tike it among tossifs and ranking or highs " But d's Renared is curse-and drothe Master of the Meeozoic sust capit stop finders stance deciveurs CO

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Yo/I iso this " said Schoeller as he at Bravnik mig the acartment. She wan

Brownik chuckled unhappily till the clapped on the uncarpeted boards of twordty. Scheeffer went nin the bathmore with management along Bernards close to a pacture of a white out standwore just as freakish. He liked them

nom Too many coos in il and a humai knotle neek taiptest with carrier. We-

"Tixe up some room ows."

Why dressed One arm tioghed

properties a kneel the band looking those kills crepe-paper flowers you get er unlaris. The room was too small and fully to his face, confining vision to ond ske sucked at between the landors. He ing by humidity

back in He stood in the living room. had to take pattures like the

own while the water was surger. He sheiri seec? A cutture of Death stand



a white sheet around her. Hell, she'd couldn't understand a mind like that With he why it was referrent. He was a though these days he didn't do much

Schoeller came up paut to him, pontet in a hat sitting on a bed with a bottle

that dwarf to get his picture?

"Mo? She's the one in the bath "

"Bravo, hey" came a call from the

He walked back toward the bath-

"Menny, manny,' he said

"Furth way, Morrissoy Tm shootno

"Whend d you much that up from?"

Manistraw surficiently looked pain soil member right whom?

"You burking wind." Schapiter reinest a bard as if to strice bert. "She

Morrison anamaci backward ado the hattenore. Schoolfer right bohied him

nearly and loally loand it in an oner-

How did rumons get started? How did have the photographs, the recorder missel who did Whold beam in his smartany loads?

Loads on a survivit Ma had to loads. Brownik was surprised that there had beet any interest at all in the women's deam had never thought of photography air, all. But appendix the discussresearch, and a the wave plant mesong tes knowner. He annelseet of and deen have guessed that before rans, and worm bath and openeng her weath would prove to be such a camy camer move. Wastever her reasons, the hadn't winted to that bate attempt what was with of her bland had been what was with of her bland had been what was with of her bland had been win in tampanes.

Receiving the papers, he learned a low things ferreal? Her name was--had boon---Dane Arbus. Shirid had a lew shows, some critical success, hocytimarity shard had her king as a lashion pholographic Hard to image in how a minol low hair, would pathwy gasecous models — wap them in taroral shrous's back well?

In the lock is locked over the same globopygrane with a resolution of the lock is in most of the status. Index global waters in the savew body hand to lace of the lit is the savew body hand to lace of the lit is body and the lock is and the lit is body and the lock is and the lit is body and the lock is and the lit is body and the lock is body and the lit is body and the lock is body and the lit is body and the lock is body and the lit is body and the lock is body and the lit is the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is body and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is and the lock is body and the lock is body

Seeing things alresh the felt regards to go through series of its backhes, Toso mundars, bicapitalizers, stabbregs mobilities, NoI hast back most of them He Kind of laket the gravity-effects the hearin spiraling that said dege shadover sprawing like distribution contents have been been them to the start. Consider the providence of public devolutions

A secretary opened the door and told him there was a call for him. No name She put it through to the lab phone

"Good evening inspector Browsk I understand you took some photographs of Dane Arbus in her bath." A woman's voce, small, rappy and hoanse. "Twoder if yourd be interested in a trade

WTO IS THE?"

"Whene inerv?"

I took the other out

Brownik click it speak for a moment

Are you say there, inspector / or ge

That was your 120 watcow?"

"I photographed Drane's succide heeke trames The whole trang Everyhing except the abarenath, neally every you took those 1'd like good copies # I can get them, so make my set complete."

"And what about your set? Do I get a look at those?

"As I said, we could arrange a rade.

"You know the meetigation on a sucide is fairly strughtforward. You teling me that someone else was involved, suddenly things start to look more complicated. You is a salarg for trouble."

"She kalled horsof, inspector Brownk. She didn't have an accomplice "

"What about you? You stood back and snapped off a ciczen shots whele your so-called itsend bled to death?

"Understand she dicit't want har death to be for nothing Sive wanted

6The tabloids were claming that the lady had managed to photograph her own sucida The press had called all day asking if the police would release the photos.?

those packures taken "

"And whal'd she think she would do with short?"

"I confit armany that,"

"Look, I can't make this kind of deal,

"You don't need my name. And if you myolive anyone elue, then you worth lear from me again 1 got in fouch with you because youre a photographer. I thought there regist be some under-

"Indepetant on?"

"Consider that I'm Daness agent in this matter inspector There has to be an element of final. As an artist you absuld be able to make the necessary mattee logs."

'Who said I was an artel?"

"You photographed Daine in deach Your eye has been changed louched I'm very interested in seeing your work

"This is crazy."

"All right so you need to think about # 11 get back to you soon 1 don't care who whows about the networks once we've made our trade, but unlit then, you must act alone or it s all off. The caper for those pictures but I won't risk exposure. Drane wouldn't want that "

"How can you be so sure what she d want? I mean look what she wanted for herself."

"She was very hard on horsof. Goodtwe Inspector."

"Was-

But she dids't wait. After that, he had to live with his impassione for another weak

The cost transport for costs is approxitemport of the costs of the cost of the costs of

It was an awful responsibility that night, late the phone rang and he came aways to the need of suffur. It was on his hands and made his eyes sting when he wiped away team. What had be lowed determine?

"It's me" and the napy life void, and that was when he realized why it sounded so doll I was in dwart voide, graff with age and tabulation, not squeeky but shi small. This was one of Actous's were women.

So it is," he said "But it's the midde of the night."

"I thought you'd be more likely to come alone that way."

"What now?"

"Have you got a perci?"

He thought of taking her he didn't have the prints with him, but he found himsell grabbing a pen and pad inshaud. He wrote down an address and avered in meet ber in ball an hour. He



copt for this same of humd evel evolved by the sight of so much seeping greaninh bis linning the tunnet walls. In his mind, water continued to drip from armirar long after blood had cessed dripphila from her denotes arm.

The above the above the grave here means they are obtained to the second and by the the number hand along the second by but the number hand along wall of ab boxtime of the second second and the second of the second based and the second second of the second based along the second of the second based along the second second based and the second second second to the second based along the second second based and the second second second the second based and the second the second the second second the second second the second the second second the second second the second the second second the second second the second second the second the second the second the second the s

He'd rever seen the place below rich in yawa of partoring the only on foot and in cars. He must have draven prod-event-dow-this alway is harded times and rever noticed the well and gets As expected, it was that of thesh years and rever noticed the well and gets As expected, it was that of thesh wear influenci, chapped synchronized the occlored He shows concreted through a free covering of bicken glass, it was here unversited and the glass, it was here as the shows of the shows the shows the line walking on the Covery Istand where, were clear to the amelie of urmer pels with thrutalized tacks and searce wergs. Stakes of concesse with the arms interport of appeared to gave the the get to the large Every beam the armsol with the tambie of gaves sent of a trunoff of handline stradyes sent of a trundow handline with sets with the cashiest be save where hard looked and where the head?

He experi of The lot of a relatively clean cript and settled down to war. With the health plft off, he spore adjust down of backley the solar, he segmeths where wars of the dark. He segmeths where wars of the dark her could also were adjusted to the solar the solar the soundeesty in a filter glass. He had the envelope of performance backley and a message carries out of novelates before a message carries out of novelates before

Who s there?' he seed

She came forward span "No names inspector Of course Lainsady know yours"

As he's guessed she was arrell as a child her face a gray blur of blended shadows He knew she wouldn't ap prepaie any light leapho on her.

Her hand clarted out to the tomb

SOMALIA'S CRY

ARTICLE BY MARION LONG



ne of the placards on the wail tells us the basic istag- my in empty burlep food bags. But we've prove sady mund genno tacta Since 1960, when Somelia became impro dimensions of the recent drought' in fast country leaving 'more than 300,000 dead, another 1 million in peril."

lookings to the version not wait facts-people, not wait corpses And that is what the photographers represented in oult, dual challenge. To make us see how exceptional, how Somale a Cry A LIFE Exhibition of Photography have done To be sure, there are a small number of photographs

AL DWN







to wohts of the anonymous dead in photographs, lalevision news, and non-lar firms. And the clead are beyond need beyond our help it is the living, especially the painfully or bently lying, who concern us and whose pilotit cries out so

works are displayed in Somete's Cryheve answered a diffe numbers and venety and condition, wrapped with swill ro- us. And they have succeeded, they've made the Someter'



busies of sumation, sickness, suffering, thesamphic exhibition. Somelia's Cry-A LIFE Exhibition of Photospoly.

which helped to anyter dynamous and. for the farme-blassed East Abscan nation Turner-for nord

theremathers and their these surneys together with remarkable speed to organ-



expension our expension for the time that we waw three photography-and for a bauning time afterwards

among these people so that we can know something of turn, makes us feel that we are the ones who can and must do something to relieve the bomble suffering in facet of us. One of the most moving and perinfully inspiring photographs. in this exhibit shows us, in greater than life size and in closeup, a very young girl, almost skeletal from starvation crouched in a dusty road, with huge, hombly pleasing



eves, lugging at the tem of her brother's garment. Because we don't see her brother, we become her brother, and it is

Those photographers have found the details that twist us the mere twice that suffice as weapons for the puece to strokes the forehead of her dwing husband wittle their batty from empty lood tins with which young boys play games even as they abanyo to death

The organizers of this show David Friend, LIFE magazine's director of photography, and Aaron Schindler of Photo Per-

SOMALIA'S CRY





Phonographs like shene of suffering and deark in Someha theoreas the math of this macement by Andrew EtoBrache whene phonographs can give whene phonography can give watere to the volcoles."



performs one address the standards with the standards of the standards of

When go no case is grave. Having seen all of thins, we find it hand to do nothing to herp these people, especially when the photographers and casators also allow as the courage of these tim-whom these things are life, not news. They abov us not only the brave potentiand divident and elderly of Somela, but also the volumliestim—thin devolute, numera, all therefeel working—thin, mdar to try to help that fellow human beings, here put their own lives in danger out of no necessity except that of conacence and spirit

When predimperture integer transit was asked about the operators of the stress in the start was asked about the operators of the stress in the start was asked about the stress asked in the stress integer and the stress integer database and the stress integer and the stress integer operator and the stress integer and the stress integer database and the stress integer and the stress integer database and the stress integer and the stress integer database and the stress integer and the stress integer and its asked and the stress integer and the stress and the stress integer and the stress and the stress integer and t

In the or intervention is obtained Somake in: Cystron gives userul only an an of composition and mmg and information, but of empathy and compase on and moral uping. As Alton continues to softer those appointights agoress of desight and wire, we will need abuncant supplies of the latter qualifications are well need abuncant supplies of the latter qualification of the obtainting and modumes. The men and women responsible for this show how much here contribution DO y the is like is years lower sortech pol," declares in the final, a kind of reverse paravalact. I thenk reverse paravalact thenk and on the value of the paravalact of the collection and the in a weath of these synthedeline reverse the

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In those years, taking provined/a sharp memory wined as refr-experiments in the second second proving the second second regions. And taking drugs comed an unstated manregions with the second second an unstated manreport the vifeway of writises down, the effect report the vifeway of writises down, the effect uncomment to ass. Why uncomment to answ. Why statement of many the promises of the second statement of many the statement of many the promises of the statement of many the statement of many the statement of many the promises of the statement of many the statement of statement

Born in 1946 in weetern Colorado, McKerna moved to Los Altos.





EVERYBODY, LET'S GET STONED. A WORLD-CLASS MUSHROOM EATER AND VISIOHARY SAYS THAT HUMAN EVOLUTION ADVANCES VIA ORGIASTIC PSYCHEDELIC EXPERIENCE. California within the water the produced time multi-interval of the produced tom multi-interval of all controls at all transmission of the control of the control of the much services. California of the much services and the services of the control theory of the control of the produced the services of the s

the "New Scienter, McKeri me a peur "When he was younger this so bothered coursed of Gunther Stort. the processing Swedish spean of spence. What I am interested to know is." Bune tions is largen?" room, planet he hands on McKenne's shoulders, and "My clear system insert. they aren't even tal. crushed and shattened by First- unitional crussiony, stress, writer of worktwick repute Believe they intercome

THEN SOMETHING CATCHES MY ATTENTION. A DMT HALLUCINATION IS POURING OUT OF THE AIR, INTO THIS HOUSE, AND INTO THE ROOM! THIS IS NOT SUPPOSED TO BE HAPPENING! THIS IS NOT PERMITTED!

Isr the following to: "Being size to post, eng. or dotte will unally get you though fary checkpoins. To deal with read prace to carrie a name of 18dee and puzzle entrings when what have point is subjustly and what they point is s

Oton: Norive been called a prophet readman, the most important visionary scholar in America, a bard of our pypercidite tail right, multitude i found did you grow up? Was there across them is the water of your thouse?

Interfaces I treat town in a Contents to and coal-interg (seen of 1.200 piecpie colled Pitorina. They wanted to page of the potential town in the second specific in system task want to wantschool, you got your gethiend pitecnate, manuel her, and want to wanton the coor mines. An intellizenzial was consored who tead have by mother to the coor mines. An intellizenzial was consored who tead have by mother of classocal mode and who an aware of classocal mode and shorting and/ther

He refer was language. He hequarty used the phrase: the fusheran fiziggs tran Zimmerman'' Lincoonstructed & It assame ''s shrewesh fishwide from a lown pair a solition fishwide from a lown pair excited, he'd yest.

"Great God1" and the woodcock when the hawk struck him." A nut, a poet is what he was

Onver. How early in your life were you into altered states?

Motional Until I was three we lived in my grandfathers house. I've had

mysel in rup chick body stepsing with my terms sterve in the two proofs. Then extending controls my asteriots and Littma and loss A. DMF halluchingon is pouring out of the art mittle house, in the second. The unit discoordal bole happening. This is not permitted¹ twos as in in invalidational weak baginging to positional house, cooled logist permittig of house in the second and the tables in the positional house. In the dwo board out the trakes, and The control-board dwo board out the trakes. In the control-board out the second out the trakes. In the control-board out the trakes.



LIFE COMPARE To tring people to the putantral and accessibility of alluga, unsubjecting dittateon of authorito anperience that is of authority as

INFORMATELY WIRST TERM: Food for the Gods. The Search for the Original Time of Knowledge: A Radic at Herey of Perm, Dava, and Homan Read for determined

CAUSE OF HUMAN WOEs: The ago 's makalaphe behaviosi complex hal gets going like a surce'

When Selectus Take BRUGS? "Not everybody Troce should be true to pursue the drug whose minest or resourch loads how them. They should not have to gendlect to a Calevial government." through the teapot—came rushing in. I go to find my mother to show her. Then, of course, it's not there. Ormal: And now? Toward what end is the more course that the tend is

Mildiament I can't aternative the Linuary impacty of non-molody garry to the grave growset of what is possible name the sensible paces, have poople can model some kind of experience of hisramentia, sake is agrial any which impact a set is the brink should entrinee going to the grave which it was being constanted in This work is that bot is brink should entriheave going to the grave which is that bot is brink should entrihe an entrihed and the the third work is that bot is brink should be the bot is brink should be the should be bot in sec determined.

Oms: What is DMT's effect?

Molecense. My beed guoos is hit if mediates attempts to bit all when you here is noise opening tiers instreptious within your profend transo, you him and focus ins what the noise might be methal functioning a divene hy DMT is with a Schodule I dive, ib tothtic within a Schodule I dive, ib tothtic paradises to the CMT is the island and guidess to hikknongon to been grout system—advised, risk all, and the science instrementation and and the science instrementation and and the science instrementation of the time is the science instrementation of the sci

Clear, Flood of the Gobin relates DMT to pariocytom VMIs the connection? Metheman Periocyton and DMT and doermoshy max relatives My book is about the hotory of dougs, if their is about the hotory of dougs, if their is doubrind and good doubrind and periodity and any my bound and their about the operator of hose our minds and comp to period the doubrind and their as the output to the several doubring to the evolution of the operator of the opertregive the distinct of the good the operator to period the the severation but to my

must, the large solutions for great mystery is the total ence of superbookies plans in the data of align main. Dennik What day due to this sating confusion? Modernet: Cethodox evaluationary theory late us that must adaptive elevances more species builds upon this minute chenges to further as approve obavitopy or if ultransyst nutbereads all of as competitions for a pair build mainteend on the competitions for a pair. Onen'. So prehistoric humans got a lag up on the apes by ingesting a drug?

Mickenia Yoo Lab work of approximation and an amounts to amin their Carolica and an amounts to amin their Carolica and the second secon

As we despended from the deal and with the personnels its and and with the personnels its and and other personnels and and and otherworks all the deal and otherworks and the second second second and the second personnel means is for others and and the second second account, which in a highly second personnel means is for others are not personnel in the interverse personnel second personnel means is for person means in the personnel second second personnel and the second second second personnel to the second second second personnel to the second second second personnel to the second second second and the second second second and other and the second se

The way I analyze the modem precisament-pollution, make dominance. There are a mil-

WHAT IS DAT?

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Otexi: Is 5-H12 a postey-splic receptor? Agrupping to DMT also works on a presynaptic receptor, but that is not the action responshes for its holizancement effects.

One is lince DMT binds at these receptors, does that insure it is found hazardy in the born't Ayloganet. Express skies to perfusiou DMT is so in ocetan topores public to perfusiou DMT is there in no exercise that more than a free of DMT exerts in the longing rail ecough to have any charanactional infect

Only What's the difference between DMT and USD, pelocyton, and so torth?

Color period parts and a second secon

Qens Why do the other psychodelics have more unipped effects?

Agroupment. I think the other hallucinogens are taken up in hand their compartments of the beam, cell remotiones, and elevatives and their the deag a released slowly from these compartments. The persentence of elevatis dapands on the contracted presence of the data dapands on way lipsid soluble, so its not stored in the tipol consectivety and the waiting of another datif passess the rotation of ego as were a allowed to crystitize in Weatern acceletes. The roeson for the last of lag oward a social royke of muthicom taking and an anguste beatual sight of that was probably limit in into timing. Nabody went more than threas or four weeks bottom they were redinabled into part boting and boundary despition. Ing and boundary despition and association of the social significant the social significant of the social set approximation of the social significant manners and the social shall the social significant of the social significant the social significant of the social significant significant of the social sis the social sis the social significant of

Omstel If this was all so wonder ful, why did it end?

Michigans, The most aligned, acceleration is that the very torse that created the organic benefitting, they tenessing with the conditions. The tenessinger tenession, the tenessing with the teness carego with the tenessing and, and this broadwin and the teness carego with the tenessing with the tenessing organized and the tenessing the grants data. Microsome togen to be less available. These distributions the work of the distribution of the vocal to addressing mathematic the top vocal and any a certain closes of powlimin-thermals, the certain power to the start the tenessing the tenessing the distribution of the tenessing the tenessing the distribution of the tenessing the tenessing the distribution of the tenessing the teness of the distribution of the tenessing the tenessing the distribution of tenessing the tenessing the tenessing the tenessing the distribution of tenessing the tenessing the tenessing the tenessing tenessing the distribution of tenessing tenessing the tenessing tends tenessing t

Destructly be maintrade onty enside drowt white holes in the same shadows of centers meantains, finding the multiroom was gone. At that moment and/or great prosture from the dying climite, add/sciare was invented Adjustuted regressritt an minicitize turber decl can be experimed in time. You return b last year o cerror, look where you discatized the test, and there all in one place are the option prior you wo

Ion ways to say 4—the nermiting problems are prought on by the extransic of the ogo, a messagine with the problem plan in the psychia that gains going like a timor if it is not rosted—if there is no pharmicological manyeriton—if be comes the domeant constriktion of the personality (free they into it is no plan out?)

McKeena, Pom 75 000 to about 15,000 years ago, there was a kind of human paratilise on Earth. People denoied, saing, had powny, pixes addics, intrigue, and weapons, but iney 72 DMM. carefully gathered Women, the gatherers, put this together Water Bury food, come back a year leter, and it is there. This was a watershed in the development of abstract though:

At the same time, new several controlled in the set, act, previously appointed with this propil organitie shift, will the equivalent of burying flood and compt places a year inont Male patentity is recognized as a phenomenon. The read table is pared—eight lensel—time that port on. The minimum place is pared—eight lensel—time that port on. The fore, animals I will are food for my women and my children. Women are seen as property. The ego is tempent and in full force.

Other How does data on palocybin support your freery?

Motorina Well favore to expectem Their opport. discovered in 1953 not climancally characterized until 1969. The climan early of the term of term of the term of

When the scientific evaluationment was informed that there would be no governmelt game augent for psychodioin research, here yest break their futcy heads and went strong with it. The optimizations in an analysis because yest of a science her farst fulfilled if a signed is in its other instance has connot all utdown so guitassily and allowed the state to tell if here to do all balances.

This not taying to move a severation in printed excitencely or hences of human energy of the several mean energy of the several probability of the several based or angle, which printed an agendia of breads and demonstrain agendia of breads and demonstrain of cally. Ever, by initiationing the patieoch or training theorem annealable coupt of the theorem annealable coupt of the movement of the several coupt of the theorem annealable coupt of the movement.

Owner You're giving an enormous amount of power to a drug. What can you tell me about psicoybin?

McKenne: We don't know what DMT means it's like Columbus sighting and and screebody says. So you saw land is that a big deal?" And Columbol says. 'You don't undeemend, it is the New World."

For the last 500 years Western cultury has suppressed the initial of desmbodied intelligences—of the presence and nailly of spirit thing seconds into the DMT flash and that is a deviation the churg shows us that culture is an intified thru cam be a New York psychotherapast or a Yorupa sitemen but there are say correspond maillage youting committed to out of conventional or lo-

Onvir Well, it gives alle something to do. Terence

(d) Research McKerns Yes, but most people think it's white happening. Psicopen showe you recrypting you know is writing The works anot a targle one-dimensional is watch showing autoastal outmended thing, but some kind of intodemanaral means damet. If everything I know is wrong, then what?

Michanna You have to reconstruct in a minimologity a termendului permission for his insignation. I don't have to inlow Santa Josun or anybody else Evyintig melti seavy and you goz, "Its just me, my mend, and Michan Nation." This chug threas us that what's watang on the other side in a tentyropy wail soft constant reveality is weated that stays constant every time you visit if Deer What a weatern? What?

Addema Nocionaria a papa Somehos you can tel 6 sundargound o ramenese vegato a la constructiva de la contante e para vegato de la constructiva de la calega d'anciezer, yet tre apace a del e oper, veam conforbate, pañotered e is some very sensual material teres e no ambiguity about ha facil teres e no ambiguity about ha facil del these embies ne social

Celler What are they like Turevort Mediters Trave to describe them only easy on one level (all them set) travalancing extreme elvers that mechrist, half ell. They are also like settabiling verified besistibutis, about half their values, and they more very calify and drage Aed they are, some hww. seeking. When you burst into its space, they a beneficial to the they has a origin. The Grome Have

Ottol What are these elves these crestures about?

McKenna They are teaching somefring Thesis is a higher dimensional language that condamies as a vesible syn fair. For us, surfax is the structure of

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and it's all happening in a scene of wild memmerit and confusion

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Only What other experiences can you liken to the DMI tax?

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Only: So the circus is really just a doorway. How does it and?

McKenna This crazy stall goes on for 60 seconds, then you fail sway from it Thay had you ferewell in one case they said to me. "Deal wull deprive" Ownic You've devoted is good part of your life to mapping the DMT and psiocybin terrain. How would you interpret all of 1?

Melikama, These drugs can desolve on a single lightning stoke all cor promout the stoke of the stoke stoke of the stoke of the stoke of the organism for any entry designed to mask. Onceside the substance you are reborn on the substance you are reborn on the substance you are reborn to any entry designed to mask. Onceside the evelope of outputs and of language. You feesing come related inte this new domain.

Others: What do you say to doubted? Mediana DAT, a Linky abusting of drugs pour DAT and patistryon rate through the term of the second second base through out the second of doubters beneficial and informations in the second base of all a second of doubters beneficial and informations in the second sector with any in call that. The second second of the second of the second second second second second

DMT is inheled. The entrie trip tants that long with no after-feelings. They tools that they doo, with a netwo version community and warrant as reading and



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ANTIMATTER

MARTIAN MYSTERY: is the Red Planet host to a third lunar body or UEOs?

When a Soviet probe spun out of control near Phobos, one of two Martia ns, experts called the hazard of wenturing on tich. But to some mem is of the UFO commu y, the crash was the evel fearing of aliens bases on Phobos for years.

Fueling this otherworld ly rumor, it seems, was a tement by none othe than Alexander Dunevery chairman of the Sovier Space organization respon

bia for the space probe, named Phobos 2 The comed craft, Dunisyev stated, had photographed the image of an odd-shaped object between itself and a. The object could have been "debris in the or bit of Phobos," Dunayev suggested, or perhaps the spacecraft's lettisaned "auto CODELIS DECO 10.046 pm " But has tone of uncertainty-and the fact nal photographs-left saucer buffs guessing the mys

terious object had been a genuine UFO. That susprains were heightened just recently when retired Soviet Col. Marina Popovich made a trip to the United States. Speaking at a prese conferonce in Los Angeles, UFO advocate Popevich stat ed that the object had mensured a whompine 25 kilo lens, or 15.5 miles, in length. A former test pilot and the wife of a highly disconsteel commonsul, Gen. Pav-el Popovich, the visiting colonel said the had received the alarming photo itself from cosmonaut Alaxie Leoncy, her triend

bildy net mano. But it Washington, DC, astronomer Tom Van Flan-den, komeny of the U.S. Naval Observatory and new head of his own group, Mata Research, is correct, the tarture of the probe was no mystery at all. The Sove ets had long said that the craft had soun out of con trol because of an erroneous ground command on March 27. Van Flandern discovered, yet the photo of the mystery object had been dated March 25. "It was



unlikely," he explains "that the object in the pho to had anything to do with the spacecraft's demise To determine the identi-

ty of the object, however an Flandern analyzer the picture "The first plane, "is that the object to Phobos, an est body that is carbonad and dark " It did not inflor oht as a motalic, artificia obsect would

Van Elandern also exam

ned the timing of the Phobos Notmena, set to trad the motion of the Martian moon. Anything not match ing the moon's relative motion would app tak or trail across the photographic pag o. Titus the "streak," thought to be 25 kilometers long was in fact, a much smaller object impinting its motion not its length, across the image. Only the very end of the elongated streak hints at the object's true shape rounded but irregular, with one and na than the other. To Van Elandern, the class so the mystery object was a moonlet, or a third, minut ture Merban moot

Of course, Van Flandern's conclusion has not eased everybody. One German receiverther says the ge is just an artifact produced by the mailunction of the Phobos 2 camera in space. And F tends the object may be an alive craft. To make her oint, she has even given a copy of the telting photo to Don Foker, director of research the UEOM based in Los Angeles Ecker, deleming to "the facts as presented by the Russans," favors the notion of a Mars-based UFO.

But Van Bandem contends the lack of silen involvement in the image should not detroit from he im tance. "It is an exciting astronomical discovery," he contends, "and means that instead of just two moons revolving around Mars, we may have three." PATRICK HUYOH



ANTIMATTER



Paranormal copy: hastenp phoete in style

WHO YOU GONNA CALL?

Have things been going burns in the right lafty often lately? Do objects fly across the den for no apparent research? Do strange veces come out of your blender or the bathcom's walls? Who bathcom's walls? Who you going call?

you genna cal? If Level Auerbach, suther of Rencemation Channeling, and Possee alon (Warner, 1993), has his way, you'll turn to his Orinda, California-based Orinda, California-based Office of Paranontial Investigations (OPI), a real-He counterpart to the Ghostbustors OPI investi gittes reports of apparent paranormal phenomena. evolution. Maybe the things going bump in the right are your upstaire neighbors practiong for a rumbs cordent: maybe the fixing objects are being therein behind your back

by your spoule. Auerbach, who holds a master's degree in parapsychology, states that, "Most of the time poople are not crazy, but they'no other metaken about what they think is going on."

Nonetheless, not all of OP/s investigations result in debunking the paranetmal. "Twe come up with some cases that indicate the prosence of real ghosts," he notes, "aven though skeptics won't before me."

In one such case, he notes, "some information was relayed to us from an aguant dyboard by a young boy. The information was last wonted by the only information and and wonted by the only information and online possible normal sources for the information the boy gave us." To come us with such

conclusions, OPI provides

offsette with an artim staff of specialists, indiuding a context paychologist, an audio-visual poscialist, an audio-visual poscialist, an well as experts in computer graphics, and archival research. "I don't maid companying myself to the Ghostbuchers," says Ausebach, "but Hast's not really what we're dong.

don't stop handcutts on them. We're not string arcund guns, effhaugh somebody has offered us a linear accelerator for oracharges frow \$25 to \$500 per hour, dependite upon the circumstance of the case, and will usually complete an investigation in two or timere hours.

MILLENNIUM

Whan 20.050 members of a Crimitium sect in Knorse security and their worldly globds and watoot for Golf to 20 pathem to heaven, folkforse Ted Daniels was not surpread. In first, as the year 2,000 reprotectivel, Daniels ware not surpread. Unitst, as the year 2,000 reprotectivel, Daniels ware more pacific wathors for the end.

Daniels produktionen, 4 his / Hukarobankinskin baseduk, hermannen baseduk, hermannen baseduk, hermannen baseduk, hermannen programmer witternum and some floor groups who lie the new millennum to such ternestal ternatormatione at he second coming of Christ, the anhval of usines, and the condorgemic end of the work. Basedo, show comes these productors in floor these productors in These should work? The impact and a work? The contract of propagation of the contract of propagation of the contract of the c

PRENATAL CLASSROOM?

Can we recall our time spent in the womb? And it we posicies such ancient memory, can we carry the lessons of pestation to biar on the rest of our wer?

According to California obsisterizarin F. Reine Man die Carr, the answers to both questions is year, in fact, for the pairs 13 years, Win De Carr has been designing and basting what he forms "a comprehensine propart of prenatal etimulation." New, Wan de Car's new book, Prenatal fetus through a tube pressed against the moth er's abdomen, patting and nubbing the abo mythmically, until baby kalks back sharano a flashlight through the abdomon, and even about a muse that the itus can hear These moreson Vando Carr ments "stimulate the brain areas responsible for socialization and increase the baby's ability to give and receive affect

Toronto psychiatrist Thomas Verny thinks Van de Carris generally on the right track, although he adds that his own prenatal

"WHE INSIDE THE UTERUS, THE BABY IS ARE: TO HEL, LEARN, AND TELLTHE DEFIRENCE BETWEEN DARK AND USEN "SWISSER BOANT F. RIME WIN DE CARR "BY FRANCE (EARNING GAMES WITH A FELUS, IT MAY BE POSSIBLE TO IMPROVE THE CHURS'S INTERCTIAL CARACTER FOR UTE "

Classroom, coalchorad with psychologist Mark Lahra and published by Humenics Publishing Group, makes the coaract on accessible in a simple, sho dy-seting paide. By physing learning games with a dwologing fatus bigaining free months shift conception, Van de Carr Game, parrets may improve the chiefs intellet

Van de Can's exercises include such techniques as taiking directly to the program. Nurturing the Interior Chief (Descotts, 1982), Valis for examining the instanciality between the program motion as well as establishing a lowing bridge between motifier and baby. Any program that have to entranced percession conding, motes Verry, 1-a alto the good."

But University of North Caroling psychologist Anthory DeCasper is not I sold on Van de Carrís approach. "Amenicans are antermined to do what's good der their children, so there wil be a unadwit frei book fine promises to tell you how to have a heatther, happer, antarier baby." In aster, "Boil havent seen any indopenderthy interead scann." Ho papers supporting Ven de Carris cleans." Van de Carr, meanwhite, hopes that such and the available in the near future. "Britis programs bere recently been carned out in Venizzuela and Thaland," be studies, "and the researches in those place are reporting the same type of beneficial effects found by us."





which for bucking Preactors the flue, same have secolly enlarged their Mer report station. Insidentity, Mer's solar patiest appearently using enline-inside solar cells rather than the more commen alticon cells. Galum assende solar cells are more efficient and withelist are more efficient and withment better than silicon cells, two imcontrol teactors for using the socontrol teacher.

¹¹³Building as in consists, SEG of 100 impgrants would undextubled yorsaw the read for rocket boostime display of fing heavy termsge at initiatively our cell encouraging the ancospece indusyo i combe lossed heavy-fit boostime that could bear the cell form the current 55,000 per (pound is appactime mardiation of these should be a protise it second that a protise it second what a protise it second what and the protise it second what and the protection of the Cell for the cell the ty is neared in the Cell for the protise its second what and the prosedection of the LS metals.

Peer Gaser revented the SPS concept A vec prevaient of Artur ID Lin bits, he points out that Japan leads the works in two of the lay SPS technologies, microwew generatists and solarois hard convex simplifit to decondry. Not the Japanese don't increpante cost hard convex simplifit to decondry. Not the Japanese don't increpante paraministed, Ray use them in mantecturing solar-prevent pockat only were and monwave oversit pockat and so in weich the lead the vecki

Thy developing these commercialophance mension 'Classer says. The Jepanese are earning huge sums of money while hey set up the industraj capacity to build solar cells and encomwork systems for an BPS and continue to work on BPS related technology and demonstration programs.'

Panting out that energy already represerve a million-dolan-syver global moset, disase bolioves the econtence superpowers of the twenty-first century will be those who develop and market new energy technologues.

"Japanese stategic planners look ahead thirty years as a matter of counse he arys. Meer Japanese coporations have smaller planning groups that look even further ahead, up to a hundred years."

At press time, Japan planned to test, in April a microwise transmission system in space that would beam one kilowell of energy from a specierati to a satalite. Its the first step in Japan e SPS 200 program, which calls for leaking a test-angular system in orbit, presumtive annula the wave 2000.

Wealth a major U.S. offort to huild an

SPS encourage international cooperation? Or might we see a new space race in a few yairs, a nace to be the first to define electrical power from rosser et a profit? That trition dolar glob all market in anergy will grow even larg, or in the next few decades

What every the sterior methods of CPC on Priceson advancement of the second of the sterior of the advancement of CPC increases proting against the methods have not could and of CPC increases protocol and of CPC increases protocol and of CPC increases protocol and the could be advanced by the energy diverse of the data table to conserve of table tables and the conserver of tables tables and the tables may be advanced and the main tables and the tables and tables the main tables and the tables and tables the tables and tables and tables the more tables the tables tables and tables and tables and tables the more tables the tables and tables and tables the tables tables and tables the tables tables tables tables the tables tables tables tables the tables tabl

However, it seems clear that as DEP lengtaine work requee a magn hearcal commencer. A Dapament of Inmay tably conclude in 1980 that the second coal of the test DEP work to the test of the test DEP work to the test of the test DEP work to the test of the order of the test of the test DEP costs the second and al subantary of the work the test of the test DEP costs the second and al subantive to band' then a nuclear power den second Dembon second

How recald such a program to finarised? Not the way the U.S. space pogram has been financed so far. Alcesting tax collars from the focient budget directly to the space program suffers from two reases interfaced problems.

First, it makes the program dependent on the political where in Washington each year two one who reconvex techeral funding, can could on support from one way to the need.

Becond, and desety connected to the free problem support for a program detended on positive support for a program detended on positive support for a mong the lappane. The speak results berrof Todara money to here the them in programmer that event detend dolars to other atabies. The speak program those sitions where oppose dollars are those sitions where oppose dollars are those sitions where oppose dollars are point. Beards, Carlingia and Toogs point. Beards, Carlingia and Toogs

To soundly fund a program as large and iong-range as the development of a solar-cover satalfia the capital

We didn't invent the lime.



We just perfected it.

Tanqueray A singular experience must come from somewhere ofter then the Capitol

There is a very—a way that has avoided in the past as 500-horit. Get but and a diversion is Societien U. Get and a diversion is socially the forther government and private entreparteness accessibly worked together to build the measure hydrophototic power demise and the watern United Status. The same bunding technique could instruct diversion scheme scheme Status.

The bog power dams were interacted by they term, seventials follows incourse Dam paid off at 4 percent later in 1600 Stylesen with a 1614 Math data were in 1600 Stylesen with a 1614 Math data were interacted and the sevential were interacted and the sevential generations. At continent were interacted and a sevential program would understand were memory and an experiment and here a general were as the general of NASA might seven as the general and the sevential the sevential of previous general the sevential sevential to ensure the sevential to ensure of previous comparison in the SMS in old in the sevential to ensure the sevential to ensure of previous comparison in the SMS is not in the sevential to ensure the sevential to ensure the previous sevential to ensure the sevential to ensure could be turned back to what NASA does se well exploring the universe

Gaser believes in a Tarribold approach Rivin rain building the first BPS from scratch, the feels that is entited of intermediate goals avoid high dowlrain aprovises. MOSA used a similar approach to get to the most self-rain proach to be to the most self-rain training with the Non-start Gettime imasents and including the unmandate

One such terrater implifies basining electrical power from a globardbased ination to a nembe offe Glass suggests the electricity could be genortated a geothermal power station's analysis of terraterial power station's commentation distances by the strong anto commentation distances and analysis to commentation distances and analysis to commentation of the strong and analysis to commentation of the strong and the power for promotion.

A successful demonstration SPS could put the United States and any difencience that part the effort of all the force trant of energy lectinology. By using fedeasity based locars rather than outright grants, the program could generate private investment in space drive topment.

Such a program would stimutate the prowth of the kind of infrastructure in



spage necessary to further develop this New Florber. An SPS demonstration program would take at least a discade to centry out, requiring living quanters in orbit for sizable numbers of constructors workers engineers, aithoneuls, and support personnel such as medical doctors.

The book book of the invested these books of the second terms of the second second terms of the second second terms of the second terms of term

White the first deamonstration SPS would probably consist enhanced register motivate womaking traviation corres charagoet and more etholem to menu the take mathematis for extension statistics, and other space facilities on the more. Sumaking of the larger approting taken to share the statistical are not in shared of the larger approand that watablin battering executes

Maanwhile, that the SPS would be generating electrosity to be sold while langulerm belogical effects of the langulerm belogical effects of the wave thranemeans. National acuto baild more solar-power sofelline, and a new industry would anse electrical power derivated chearly and cheaply then takes

Chepty? Yes in the long term. For while an SPS would cost a lot to build, it would be cheap to operate no fuel bits because the power would come from surfacti.

And perhaps some fraction of the vast amounts of electricity governand robit by solve power satellities could go to powering extremely sophisticated spacecraft as they probe the plannis of our even workers and be Word.

This should be the focus of the United States' efforts in space. It's time to use space technology to benit the taxespets who have invested in to dovelogenet. It's time to make a visrite prefit from passa. Only then will we have the ungoing support of the general/public in further exploration and dovelopment of the New Forteer.

It was John F. Korneyk, architect of the New Feories, who particulated out. "New she area to take and out," "New she area to take anges theteetise for a great new American architecprise-time for the reach of additional architecment in many ways may hold the key to our fource on Bach.

He was speaking of reaching for the moon, but his words are even more valid lodev DO

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current apace shuttle missions are launched, and the answer with equal consistency will be Cape Canaveai. People should abok to the sailing-ships anower, because for manned spaceahaps. Care Canaveral is work?

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"The trip appear above really were from the Case, surplume an odd-ane newmen when has retired to nearby Goose Heards. Too prophilip at got into the fact, the amount was lead to an other prophility of the company of the test prophility of the company of the test in the second second second second second prophility of the second second second second provide the second second second second second provide second second second second second second second provide second second

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Blow Up

Special-effects wizards love space vacuum scenes. In Totel Recall (set on Mers) and a dopen other Highwood space weathers, move movings tak the standard gov approach of panking perfngliates and grappelies burding govngliates and grappelies burding govmoving out into open passa. Buch an investment of the exclusion in the grapped yabs execution, were vealerany social autoacceptive Dankyon due Texlangita due second to even weather anging trackings about the time of 3 isdeed hybrid autoaccent to how.

But doe Holywood devicery Samiry Alborotik, was much mere accusate (Alborotik, was much mere accusate 1988 cut dessee, 2007 A Spoor OC 1998 cut dessee accusate accusate 2007 Cut dessee accusate accusate 2007 Cut dessee accusate accusate 2007 Cut dessee accusate 2007 Cut dess

"What you should expect a to fart a lot," notes a specie-methone expert at Cape Canaveral

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Burning Out of Oxygen

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If ar case buch any state rail Saxstand by ParcEnt, Box 156.

What can kill a person in a street carbon dewide building up. After a waste case into the air through the lunce because the air breathed into the this occurs, there will be plenty of insentable covaen left in the room, although

How many times have we heard about show he the unner atmosphere at Mach 25, and there are fames But if macarraits sky really causes them a forget of a tandron can deman loofs, survive such a twoerpony. Next

are least has life to do with the free ing spaceoral! The air car's out of the way feet enough, like snow in front

motor to emptre who's ever blown up The compressed lower screed superrm a mater of an in kort of the descendor laser, transmittion heat to the some tion. They's why the class-fiber insulation of the blas works to well it transports heat very slowly along the fibers, and t raciates much of it back out into more Mannahile the arthma in conwhich the space of its further

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Mach 3 4 or 5 speeds The planest desegrers did all they could to minimize drag an a social place's ecome pould called the boundary lawer in which are cal protection to leave that alon from faunt.

But as soon as flights to space and craft shapes. The desegners no longer but instead, how to slow down with the least heating of the surface. Engineers biant shapes This in turn, created the

The Impact of Space Myth-takes

For visitors coming to NASA's Houston center in salarch of the fabled "zeropravity room" used for training autopauls, the shock of reality can be cost. Boy sometimes may with the guides 'We've seen it on television place Incknarred the 'Work Compt Most accort the guides implanation t to the rem & chamber, row cloth field he save "above too secret.

These kinds of mesonseptore are clan attempt to base place for the sterectypes, analogies, and periodicities,

To comprehend the national options midulen pres trevil be all of us DO



store sufface and sole away the envelope holding his prins. Bhe skid them into her hand and made a frantic geoture for his fashings. She sumd wave from him, counciled over and laad the prints on the ground. Shelding the lefth with her book site awatched it on

The heart is been party that build in turbur souths of phases in the tract to make out details for might use later to recomnext her under other orcumstances, but milliouted was as empty as a doorway into a statices sky, why only after ways of related "static poeing through her spely her like bursts of to her she sounded like a saming animal wolfing down is have medi

"All right" his laid thraily "you've even enough." As his stopped lowed har alle siste of the light end jurged block. The prints light end jurged block. The prints light enough the teching that if ha disped on one lai might when there like in our one lai might when the link of the could arroug see the stopped block and arrough the teching and those the could arroug see the stopped block and arrough the techding of the fail and arrough see the techleven surface. Even in took and when a teaters the

"Come on you said a hade Let's heve your down "

Bhi durit move the could tell she was massuring him, making his chardeter in a way he'd have appearance before early him up with the date suror pits in her date. He make a grat for his heeftight, warrang superstribucity to dring a balant rith those hollows and the form in with cyse.

See backed wery, being small mough that an edge of crypt stradow ready evaluated har of her Another stuped move and the reat would decappeer Without the light he left more hebiess than if she'd taken his guits. He held his ground, shoring to asther his prifs

"I showed you mere." he said, trying to keep the edge out of his voice. "You're the one who talked about rust"

"Mine didn't come out," she said "What do you mean?"

"I mean the roll was fogged, ell twelve negs berned black, puna wise prints Mothing on them I thought I could bring them with me, but it definit work."

Wait a minute You telling me there is no made? Now he was passed and ready to make a grab at her. She was little she could elude ham He'd have to be tast. Wait fuck if 'm giving you my cents'. "I saw them, thei's enough They came out good You're a fina photognicher I can teil how much work you put nio them. And I appreciate thet."

That was it for Brownik. Her whole story of being an accomption, nothing but a life to get a look at private records. This was suddenly more then personal he would make it obtains the

He hurled the prints at har. They called off in twelve different arcs, like a blossom oppring around him as he leapt to cut her off.

She graped, scrining away, and found horself trapped as a comer where is tail femily mapping and up against the brick of the surrounding balkings, balow a high row of below

He shoped for the flashlight, which sho d dropped "All right, lady," to read, and switched it on

The light caught her for a glancing robust, and that was all a look—all her got for her pages and for his manneness. The same that her sike was sherryrapy gray, and the very contars of her awas black. her since the sherry for the sherry gray, and the very contars to not ing mit chicappased her a was been regioned chicage material boots. In the same of a spect of hoten on the matter black. The beam hit nothing but the chipped brick well and a slab of marble with some cryptic gaing hierographs streaking the side.

He becked up, swerging the beam to and fro. up and down toolang for the creat she id skil arway through, the secret door thet had opened to switching hours, the rabbe hole, anything Northing Norre of those things would explain which in disen, anyway.

In the time bind hind to look at the mostly look—rold to use a during users waint' any cleant. This has no near of the dimetorization of the time has near of the dimetorization of country and the time shutby imperior any of that for her labels in the weath. The meaned to use as the winning balance data is an interval interval. In the weath. The meaned to use as the winning balance data is an interval to the state of the state of the state is the state of the state of the state is the state of the state of the state the state of the state of the state of the the state of the state of the state of the the state of the state is the state of the state

Browsk hutble twough the centery bill the sun came up, but he debyt had anything except his twelve dented, schabiled parts his showed them in a cryst to not and humed back to his car.



In the strong morning sunlight it was put barely possible to not think of her consciously. But sumwhere inside, his mind kept going over the details the cos inside her wouldn't duit

Constraint and constraints and the second se

The most low dogs possed with excounting downships in weaked bit the errors of high to most in weak the ther errors of high to most in weak the ther the errors of high to be an error of the time of boards to the set of the the most main the tot of the errors in the most content and all the post of the errors of the error

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had been so inky block.

"What the fuck are you doing, Biavo? There is no pulse in that arm."

He looked down in honor and saw that he had been posing a limp amadjusting the dead to make a before optiate

He backed of and drive the camera detensively to be eya, "arring if at the mothers splattened skill. For the first time he noticed that are was black. The children was black as well So was the Debaman All black."

Lowening the camera, he saw five whoe requires watching him.

What dad she do to me? he wondersci

He definit arreseer the other copy He invow the warden't new the alive to an searcher quantors, the fonced his warto the warden alid showed his carries to the warden alid showed his carries ing the film. He variate and expering the film. He variate and experting the film. He variate and experiments and the to form interpret burned aut never to be seen.

As the woman in the graves had done, they strark away to nothing. Five new stars burned briefly in the right, a tai so low to top the horizon, then biffield out

Brownik, what the fuck is wrong?" Heavy steps came toward him.

This was a get out the send wapping through the window Caustioning miss reliaved him all the way down the the escape to the street, where he willoud away quickly frem the lights of the squad care, his particle lights of the stoodhound on the trait of warphing that hed new reliabed here. Or

Courists

INTERVIEW

ONT MUED PHYSIA IN SIE 14

of linear time, thick, "Wall, son minutes How bad can that bo?" Then you have them. If hey won't per after that, they I ar least shall up.

Oresti Do you think there is such a thing as a bod too?

Meckeners: A rapit has causes you to be seen factor than you want is with inset people coil a best typ. Meck people into to total back on the learning interest in rising that sometimes the drug release websy on near to show. The information may back from the interest websy and robusty wants to have websy and tobusty wants to have that e., "You meat a device" and have can be asay or "Bourbow series Table says needs to here the series of the says needs to here the series."

Once How can you advocate drugs so strongly when such pash, disruption, and chara may be associated with telna therm?

Additionary, We should take about the word reacting into work, and by Meine trans. Neurole, and obtain you built and the work work of which you built Merceben and an utilitation. The merce and the second second second second and the second and th

Onter What people specifically should not take them?

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We te not exteng everybody to feel that they must take drugs, but rather just as a woman should be feel to control her body for heaven's sales, a preroon should bloc be feel to control ha





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calling of preserver Arrived life has been transfused with exempting either wilfully descended in to make or trapped by some opendems Something in an unisee demasion is acting as an attractor for our forward intowarent in understanding Ower-Attractor?

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Centri: Does the attractor have a kind of intelligence?

McKenna, Ethink so it's what we have naively built our religion around. God, 2068. It's an extractmensional eourop of eminese camp and reflection for the human entertaines

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Open. Terence, my friend, doks anything scare you?

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