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FIRST

By Freeman Dyson

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Hermann J. Disean is professor bi-paryolic's of the Healeder for Assessment Diverse in Historica, New Autory Hit Assessment for income Tempories and trage, publishing for Herman & Aleximut Des National Deals, New 7

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Monume mat loaned of humas work several years ago while coauthoring Life to Sale & book on molecular bology But despite several opportunities, she has declined the chance to poer into her own future. "Sometimes" site says "its better not to know what hes alread, especially if here/s noting I can do to change the mantable.

Modulities also announces : Explorations, image 701, a procession with the Saf-Normacular Effective account on the safe of the the hypothese sectors in the same of the the measurement burged by the late supports Frank Departmenter, who warried to ensue account with the mage of the maintain word Withmitted funding the cristical as avancement where chicking of a gaps become revelved in the cristian of such relating therements or periods auch relating theorems or periods

This month we present a perceptual micro diar comi with The Great Censis Plastava Hanti ' beginning of proje 55. Buned in the pages of this issue are 12 class that will like inacteristic issues to a 12 class that will like inacteristic issues to a 2 class and an Audi inacteristic issues to a bounty of prozes including an island wasaten and an Audi 4200CS Quartos

Not all adventures have such tangible goals, howavar in The Man Who Waeth There' (rage 45) a short story by Milliam Roczeszkie a wanderer becomes obsessed by the drive to find the anonymous writer all an engrands note

On the lighter acts is Aster's Sheckley's "Robotvendor Heir (page 52) A battery operated except creaters in an soluted swamp and the test of the injust pict, sreems block until an automated subserver appears, selling hot clogs and soda CO

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LETTERS

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Technological Optimist

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Of course we could bee our civilization and technology through nuclear war If 30 avoiding a law ancient needon-wate vites will be the loast of our pool Armaguodin program/s avenues.

> Cedic R Braun Managing Edisor MSN & Communications Technology Palo Alio, CA

Delense Delender

Timothy Ferns (Frait Ward, November 1965) mit be a great teacher but he is a busy observer frui don't here to be a teacher scientist or solider to secangrup hat he military he strought about many brails fruughs Beneficial to mericoid And many owling organization have been takines

The final is that any research has be potential be used for good profile on the what grows out of it this country. The military has been to bhind all the grant advances in iterators. The first big computer was similarly doubleptient: The Mentaltion Proget was patiently military and yet was similarly doubleptient. The Mentaltion begins and the similar sectors are the simulation of the similar sectors are have incident medicine. The Air Faces provised the signing engram

art all in failor of civilian support of scientific projects for the good of markind but I am not against the use of communications satellites just because the Delanse Department peopled linem first

J. R. Weddington Tusán, CA

Omn Ovation

My thanks to Bob Guocione and the scall of Oxis for gaing the intelligent reader a place to induige his curically. Biosiuse of your hand work. Onis offers the perfect balance of mental and visual somulation.

Others is the finest psimilality each published today. No other magazine gives as much to the reader 1 contones inspit and information anticulate opnion, and societent illustration. And best of all Otors is entertaining.

Jad Grazano Martinez CA

Caught by Hook

Item sure that Dr. Piobert Silman is delighted by you dompanion of his neteroliphous observations on bacansal lingaprining to the discovery of periodin [Friggspetring Moubols - Continuum, Nevertor 1935] Buy with all clue rospect to Louis Patient's with main point out that—conting to what the anticle asides—it was the Areander Planting who discovered primerian

Leonard A Hock Automased Microbiology Systems, Inc San Deepo

Pundit

Soct Momilia search for the parliast punway a delight to read (Samos November 1955) On ball of the intermitional Save the Pun Foundation—the world's largest apport;stall society—we would like to thank both Norms and Chew for this contribution to the wer on words

Here in North Amenos, where tunctional Materials is welapited anything that stimulates an intensis in having fusi with words a important in gating more people interested in the pays of neading. As the biomaboris moto proclams, 34 day without puts is kin a day without surst in there is close to improvement⁶.

John S Drosbie Toronto



FORUM

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Delave that univer channels for ideas could exist. If they do the ideas of the minority don't force themeeves upon everyone disc, they simply provide patterns of pathways, for hose who are actively seeking mixed base.

James L. Bell Oak View CA

Charto statement that implases as a tow as instance in inductions. The two excepts are distributed to papawal the scientific subjection of papawal being. Nethology and content operation in the scientific and content operation in the science has a science in the status has device have the science in the status have the science of the science have interscience implicit of the science will be apprendix to the science of the science intervent have the science intertion of the science intervent and the science intervent have the science intervent to everything but is the bact matter to bactery where evelopies to bit

Regina-Sask

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Tis worth noting that this conceivery deals with primetes an order of mammals that not-close main. The study of the and her follow monkeys needs more work. We just might learn something interestingmy/do eithin valuable—abust directives.

Drange CA

I was impressed with O'Hara's ability to discour the flaws in the hundredth-markey theory I agreed with her argument not to bindly accept unsubstantiated ideas. Then she blew it

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Maureno CHaiss responda Tize usmed of the posterio weshing behavior caberred of Ibid Japaneses relead on the prophetic base and the posterior weshing behavior to be posterior and anger that west a term prophetic posterior anger that west a term posterior posterior term and term and term posterior term and term and term posterior term and term providence for factorer before to the posterior term and to the term of the term to the term of anger term of the optimal term of the posterior term of term of the posterior term of the posterior term of the posterior term of term of

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If Pottiss had had my inhole more carefully she would have seen that I do make a distinction between mythic hub and isteristic hub and again list it behooves is to keep the distinction char

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By Jim Nolman

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to search for another species to lim. He time choice the American buffalo

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The comparison in the film crew 4 longing Wythming wideness professional shuddered when I septiment by premise of wardering down risk the india of the bulkschard. "Buffield are dangeous" he bulkschard. "Buffield are dangeous" he sight bulk will charge, and out test on the scenario bulk will charge, and out test on

My reaction was skeptical. I thought the assessment might be correct. On the other hand, the might sat be pending hearser, information based on the lens and



Rodey riske are about 800 buillars reaming the legit open plans of followstene National Park 80 CMM

wotent relationship between builtais and while men. Builtais might certainly fee from a hunter and charge a cameraman—but they might react offerently to someone who projucted music and frenciptip.

The key to my success. I fait, depended on whether or not I could flow into the Sains alow, unhumed time frame as the builtable herd. And the director of the leftension show no doubt commond by the mentry held late without a timetryd show, agreed with me

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CELESTIAL OMNIBUS



By Randal' Black

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To http://aindo.or/haituba.attemp/leasorthay/have/wold ntd lates a shutter to an otherg spaces shaten. Once here he wold effect and exourcen module semilar to he laner landers used in the Apale organith. What the interpretently bus neered the station, the exourcen module wold bake off and lank up with a manboil at been with those lang semilar beat Long beat which happe lang semilar. would examt from the hum.

Well or the bas, up assisting might of ear or they head basis that in labels's grean head regreatistic from the labels's grean head regreatistic that the labels's response that the seamon module fingnears the destination phase the comman would statist the assistance module fingnodes to retror of the and land while the bas nonthined window datapoing on the lang joint by basis theory of the memory report. Which oppositions on the planet would blas of link reductions with the basis to return home.

According to John Nettor T of Scence Applications intentioned a prove research company now studying the netroplanesitycompany now studying the netroplanesitycompany now studying the netroplanesity. In a flat to establish such an action, the datas of both the segret games and the same table contractions and the same as the theorem contraction, that is never a software table in the same and the planet of these bodies cells the same

In the case of Mars, the interplanetary bus would act the sun every 125 years encountering Earth asky tauth purrey and Mars every third. Under these accursionces, showing time between Earth and Mars would be nine months. By launching a heat of two or more buses, a company would burther increase the opportunities to the cuck travel between these two contra-

This or the spool busics appeals with in our of the same barries shared by particle busics. Passengers and the problem of but in school paining incruines energy the stability of the share on the later functionality way on barries the to later functionality and share onstraining pressure for grantice that a sing containing pressure for apport systems must develop a the augoon systems must develop and mile augoon systems and mile augoon syste

Explores would skp the fuel punchy for paking anything but there excursion whiche. The actual fax swings would depend on the weight of life support expandits any Nehol The biggost fuel expenditura would be isunching the bus in the introjecte.

"Once yours made that intel investment, its nor something you have to revestabled with each mission " says Nichell, who ackes that the total cost of such a project has not writ been determined

Shucturally the bus would be lighter and lass sturdy than more traditional space vehicles, since it would not have to engure



Spice but asset on Sel but of, Serward

the stress of slowing down and speeding up to entire and then leave a plant is orbit Given this dosign freedom engineers could better cope with the problem of notating ing the spacecraft in order to produce afficial creaty.

During Analysis Solids and The even integrin Solid mission, advanced is fait about 10 parameter of their borns more for events regit months that y parameters when eight months that y parameters wents with months that y parameters wents will have prevent the solid parameters wents will also parameters to the problem is when a parameters to the parameters to the solid parameters to the parameters to the solid parameters to the parameters to the parameters of the parameters to the parameters to the parameters of the parameters to the parameters to the parameters of the parameters to the parameters to the parameters of the parameters to the parameters to the parameters of the parameters to the parameters to the parameters of the parameters to the parameters to the parameters of the parameters to the parameters of the parameters to the parameters to the parameters to the parameters of the parameters to the parameters to the parameters to the parameters of the parameters to t

Litroniusing entrold growty to has been and a totaling room tading in performed in a totaling room tading in Personalis. However, how a sheet software manages and discretization which de nomperint and discretization which de nomperint and discretization which de nomgravity are arruph more complication gravity are arruph more complication gravity are arruph more complication gravity are arruph more complication and the arruph more complication gravity are arruph more complication arruph and arruph and arruph and arruph arruph and arruph arruph and arruph and arruph arr

Engineers are shugging with a second, more service first to passengers adding Rolation free to passengers adding the crew with 30 modes in 1996 a single free grow of this means the ansart of radiation needed tokil humans Designers plan to applying the buy with a storm calar in which tanks of dimiking wake would double as therding.

Werning closece and pareity a solar biericcore will be trifficient at a securate comparitment. Choreauly its chief uge would be to bohave alones its has the astronomy equipment could also help interplanetary onuce. Plaseingent could we alway the hoat chieft is to salar a wen documenting the positions of datast gename. The positions of datast gename. The positions of datast gename. The position to specify a line planning which bus alones they should wait during the next the pOD

VANISHING CANNIBALS



By Robert Masello

The accent Chrises account of a Roomer of our prime Koomer Counter of the Uncount of the International Counter of the International Counter of the International Counter and Counter of the International Counter and Counter of the International Counter energies to load our may provide internation international Counter of the International Inter

Permptied by the student's question and he own admittacily operating turn of mind, Arens began to mestigate the scholarly Membure on cambalism. And the more the reveat gated, the more skeptical he became. Most of what he found were ancient and unvertilable scholes. build on hearsays.

- seen records accounts from requiring the second secon

"I hought I might turn up some helpfall feidworker in South America or New Curnes, "Avers rays, list all the monwed brackers a occpie of inquests to share whelever information he gut, was all letter "from one arthropologia, who relitered must be a second, who said the first must be to cave mstaken buf suggested a third, who answend that the second was confused " Conversad he was now onto something, Arens complied his lindings and wate a book called the blind faiture blints

Control Sector and Sector and

So where here all the goty task come faint⁰ Carely, accounting is Arress from the "poppagition intertorinity on a key generotors of antimopologistic Carmbiakems the ultimate counting one attained in the ultimate counting one attained antimopologistic andult inve elegene in to question the chargos, instead thay accepted, even wildfard, them Tray before about the spontor—who all whom how others at a protee supportient



Merey are infect but few are sales

or a religious ritual?---without quastioning the fundamental assumption

Annis work has landed the interest of soveral physical anthropologiels adverted who subj the human tossi lectoral Annag them is professor Timothy Whee, of the Linivasity of California. Who commants that his own studies had begue, independently, lo lead him to semia conclusors.

But Asters has portied out that it were going to get the kind of evidence that he as a staartief is deministing were going to have to look to the archaeological record for it

Where shorts just Tuic, certifying assumting the local intervent is every a series, the local intervent is every a series, the local issues and the local issues of the local draw agreed having been distantial of or flow agreed having been distantial of the local draw and the local draw of the local been taken at these values as compatible. So, the local draw and the local draw of the local draw agreed on the local draw of the local metal draw of the local draw of the local having and users the local draw of the local having and users the local draw of the local draw of the local draw of the local draw and the local draw of the local draw of the same way that they were having a could participated cores for combility. To its the participated core of combilities. To show the participated core of combilities. To show the participated core of combilities.

There why heart in test more or an input of the unit input operation of the same of the unit is possible of the same of the unit is the unit of the same of the unit of the same of the same of the unit of the same of the same of the unit of the same of the same of the unit of the same of the same of the unit of the same of the s

UITIMATE CATALOG

STARS

By Marcia Bartusiak

I Lask a stall sho and a star to poet John Maserieki in 1902. It methods of releated pavenation, he would find things a bit more complicated

To be able to sen the inno-weathed Hubble around the sky astronomers, com ruler scientists and enclowers at Behrupes Space Telescope Science Institute are cataloging more than 20 million gelestaal abada, iha isroati undertaking of as kind

Packing a star or a faraway galaxy with an earthcand telencore in a relatively easy operation. With the earth as a reference frame, a telescope can be pointed to a souch: "analyse" and initial on the

Some 300 milos out in space, however will have to use a different orientation extern To sen the HST they must first of a pair of stars in the target's vicinity

lock onto these "guide stars" and keep the 2.4-meter minor fixed on the target with

Such accuracy is absolutely necessary (earthound observes are to big full resolve objects ten times more gharply than The talescope is up, guice stars will be chosen from a computerized catalog and HST's onboard computers

The billion-doka telescope will whip is a scary proceston," adm/s Heimut Jankrein project lender for the Guide Star

When the catalog was trial concerved several years app." he continues. "It was thought this a handful of people could get the sib core But the difficulty in proportno the location of maliens of cascle stars were Guide Star Cataloo turned out to be one of



26 DMN

Today, at the institute's modern class University carrigus, about 30 people work Each plate covers a repion of the sky Dispersibowi First alager scorner will "read" each plate translating its regions of

A sciencely designed computer program then takes each chorazed maps and college and putty obtails to last so the fifteenth magnitude (a class of objects) 4.000 trows too land to be visible to the naived eve) From the library of 4,500 tapes that will eventually be processed, the astronomers will construct the ratalog

The basit guide stars are the sharpest, most pointlike objects, which will be recorded in the catalog. Also listed will be more lazzy objects, so they can be avoided Jenimer calls them "appliers

When the first edition of the catalog is lat the positions and magnitudes of between 20 million and 40 million sity phecis The compendium will be 100 trres Astrophysical Observatory star patalog ot stars "Ours will be the astronomical reference catalog for wars to come," says

is that once begun, it will never really be in the patient's work in the problem of the stars will start to creap in a few years after the tripecope launch " poles, lanking But as new photographic surveys are done, the catalog will be updated periodically

more pressing concent to complete the testedaon "From now until launch day we have to catalog about one star a record to meet our deadline DO

CONTINUUM

THE DEATH OF P78-1

ast Soptember 13 at 4-42 mit Bastern standard brei America sentereich ein ein dipacie warfund Amathietes sensing Ale Forcemetale launcheid form an F-48 biffer dires, informatief and eininges an oblightig autalität 381 milles albeit tein Paulie. Destan Dahmei Secretary Daspon in en deskehormetet film sindaalaksi (ARSI) mateilität spokenmat Lährg Sposiau konzeich hei einert auf an noomhei te Souddi in oppider genangelte matein silten.

As for the protein larget elemenyse by ABAPIs impact. Air Force and Sandher 79:51, is also a palery film and conserve of the order is useful as if A loads that was the official Perindipol start part of a by A force is submersed. Commail Bernards that the Product of a start has been been updated to any start of the term of the term submerse interband amount as a unselected or comparison. That been taking photographs of the sums outer simplicities, or commanded by photographs of the sums outer simplicities, or commanded on the sum of a submersed of the sum outer simplicities of the sum of the sum of the sum outer simplicities of the sum of the sum outer simplicities of the sum outer sum outer simplicities of the sum ou

The fact that one deliberately deabays a useful data resource like that is just unprecedented in my expresence. Table one we exerch who mission analysis PPS-1, solar physicist Save Kahler of the Ar Fonce Geophysics Laboratory at Hancom Field, in Mansch uvert. That has send a new happened.

Normally is a sate its aitumed off. Its says, "everybody knows about it in advance and all the arguments are list on the table before a decision is mide. Now in this case abentific input was apparently not a consideration at all. The AF Porce just decided Here a concil steller, so if will blad if."

PTS1 which was latercard in tablesing TMP3 adds satisfied by popularity lawser comes as they condex with the sum distance pre-redent has such "stagescare contain are extremely rais Comners workskild by beings". TTS1 is stored are extremely rais to meners workskild by beings. TTS1 is stored are extremely rais to meners workskild by beings. TTS1 is stored are extremely rais to metrady of magnet lastistame pathwese the oppose control years of trades of means and the extremely store that control are one description descriptions and the stored are been into a control of the stored are been as the stored are been as a control of beings and stored are the been as the stored of the stored are as the stored are been as the stored of the stored are as the stored are been as the stored of the stored are as the stored are as the stored of the research are as the stored are as the stored of the research are as the stored are as the stored are as the stored of the research are as the stored are as the stored are as the stored of the research are as the stored are as the stored are as the stored of the research are as the stored are as the stored are as the stored of the research are as the stored are as the stored are as the stored of the research are as the stored are as the stored are as the stored of the research are as the stored are as th

Indeed Joseph Hirman, the chief forecaster at the U.S. Space

Environment Services Center in Boulder Colorado says the Pre-Filtermanagraph levialidad bernal disturbances that he could not classed by any often means. This as a deep portimet, to say the best to learn it no langer sosted. This says TA lat 46 we wan comment, in was all providing satellidate.

What beging TVD, Center argue is to real a AGA such emittance approximation is a possibility failed of the rendom KMA argue is balancine maximum of the Vencely in the VTM bag have been been converted in AGA and an AGA arguest and the Reagan atomic Motion and the AGA such as a decision of maximum and Motion and AGA real to approximate the Reagan atomic Motion and the AGA such as a decision of maximum and the AGA such as the provide the Reagan atomic Motion and the AGA such as a decision of maximum and the AGA such as the provide the Reagan atomic Motion and the AGA such as a decision of maximum and the AGA such as the approximation of the AGA such as a such as the AGA such as the Cracks as and the AGA such as a Moring a Decicit and press deputed of the AGA such as a Moring a Decicit and press deputed of the AGA such as a Moring a Decicit and press deputed of the AGA such as a moring of the device that and the AGA such as a first and and press deputed and the AGA such as a such as a

But the actual decreans to larged PIE 1. An Force représentant Mayr Ron Fault auto, auto asso d'un the conductors that the autelite had outlived its originality planned analysis' operational the service as in instanture design listence' of three years. The An Force estended to phase to 01 1867 anyway and its battevis had an description that the material could have battevis and all

Sciences though had been intercon keeping PTR 1 alley to use more years with A had proclude a keeping introducidation intercond the interest T-year-cyclud disclar advects "They are being and a the Ju-R forces data mitter PTR 9 was in deriver of balances and the the the strength and the they are been to work to detain of segments qualified that advect was seen to work to deraches solar impacts that work have of the Juhan Hadron Linker to the Arches solar impacts that work work of the Juhan Hadron Linker to the Arches solar impacts that work work of the Juhan Hadron Linker Linker they Applied Physical that solar Mark to go for another to detain way invesse on take segretate to go for another tota".

Askethebuai (FPSH Issements on thin note: Ommand, PPH I statement into men than 100 loberwalds loss, paining the more than 4.000 papes of mans orbital space pink all of Wroth pape a hazard to papes grangesterill in a low years. However PPH-To determ all dops mits barthy amoupting and built up, or change the space pink teams. and other applies and built up, or change the space pink teams.

CONTINUUM



CAR EXHAUST IN

-Herry Jacks

--- Alchorase Ker



-J Newle Ward norm at Scripps they refuse to nove lowerd than magnatic deaths

ALASKAN DINOSAURS

A piero la decoau homes on Marcing to the doctain overbook and survey a research book and survey a research while to Generes, of her books and books and the survey of the survey read the survey of survey and the survey of survey read to survey of survey o

The barys are between 50 million and 70 million years old Bolancell resels show clearly the back then the snow was a coastal events whose chimals was subtracted based as it a new was based and a new will new high the Article backs based and a new will new high the Article backs based and a new work will within the Article backs or months the discussion and the the Article backs was and the the article backs of diskings. gests they stuffed themselves in the tell and them just hung about slucrashly until soring

The finding, Cotheris Steps challinges the asteriot Theory of assertation. This was been asserted to the second the second momentum of a second to the second mice Start down that dark models and the Start down that dark means and the assertation of the second temperature, and generated the second the second the second temperature, and generated the second temperature of the amount declaration of a second these second declarations are second the second declaration as an unorther of declaration and the second temperature device event.

It sales possible, though a birrind bogging, that instead of adapting to the dark, the restles pulled themselves out of the seemps and trooped hum darks of miss south every and But this can be easily degrouped. If it rums out they are inpresentatives of speces that are unknown in lower letitudes: anys Camnas, that will be strong exchange that dark merges —Lash Welder.



Directions once holeted in northern Alaska, in the Arche Circle designation perhaps the new lar asternet there of extension

THE ULTIMATE HALKMAN

Elector is not a same the unan also Chy Utah is as interprior and the same the same ped a try, self-contained, ped a try, self-contained, ped a try, self-contained that the same solution of the same self and selfs for the more than en dollars.

Norms, an electrical engineer is president and charmen of the American Richnology Corposition, and he holds the potent on the "eartable" an willfarweador device that Can pOK up. All radio signals from 40 miss away on a coular nearwar about one half nich will be nich be ser cansi The dovice is like a Sony Wahrman-murch be wre

Beer more than in the art that the second term of the second term of the menufactures in they care to menufactures in they care to menufactures in the second term of the second term of the According to be events. According to be events the descent has a did them the descent has a did the the descent



The pell contained war radio Succession interest from NASA

Archeeology sounds like duit sport in five syllables it smith is the Pereging Tom of this sciences it is the sandbac of men who care not where they are good, they many want to know where everybody else has been '

"Bulline in a universe and within you, you form pictures of the universe as it appears to you. And you know nothing of their universe and can know nothing except for the pictures. But the pictures within you of the universe and not the universe.

-A E van Voot

the fields of observation sance layors only the mind at is prepared."

-Louis Pasteur

CONTINUUM

OMELET ROBOT

An alumnum tobote hand, using three cybernetic tingahl and a humb, coucks an egg and rapidly whigh the confersity, it plays "Stargers in the Night" on the organ puts a notion a bolt, and wifty rings a bet.

These small, showy lisks are performed by the socalled devirous hind as a demonstrated of a remain. Ally vertailing, explains the research tools chard, do signer, Stephen Jacobson of the Uneverty of Utah's Cantar for Engineering Design. But such an arthopernorphic hand, ence perfected, could cannecity be used in inclusity to asmentile adjust electronic components and by autoputs workness in secon

The import and thumb of the robotic hand have joints to they can bend in the forearm any electronically controlled presentatic cylinclera and valves, called actuation. Infect to the shoestroglike Tendoral that estend reacts his hand and imports The robolic hand, bacasso the landors are on the aside is salely an invested reanosetie " designer Jacobam says "As the actuators pull on the tandors the menoretie hand assumes of bever costoors."

To crack an egg or partown other externity tody tasks the subotic hand must row to operated in what is called the master-steve mode "A partial waves is cartrel unit the master, on his hand," availablem explains, "and the validate hand. The stave replicates the natural hand's every movement."

But Jacobsen and his follow researchers are working to increase the rotoric hand's capacity to hanction subcromously

"The roal goal," he says is to understand how based on sensory information: a computer can decide how to deploy a hand and execute a high level task."

Supple only think a thing is orth ballowing shift it's

-Amper Sarcle



Stohen Jocobens new derlacks hand it plags Strangers in the Night sched on rules rings a ball, and makes a mean omails or David

ANSPERMA UPDATE

Of all the thiopress as to how life on Earth first access perhaps the most controperall is participation of the retion supported by Nobel aureates France Onck. Ital organic file was first seeded by bacteneil spores from cotter space (reported in Om n°s interview with Dicks March 1982).

Holly contested by the wait majority of autonomeus and biologists who maintain that no sport occild servive the king ultravolet (UV) exclusion function in goode the chain now hat new support ther a sones of implemeus colperminite by University of Leden Netherlanda justohydros: Mayo Greenberg

Learning and gradual transfer of the marked to separate the local and the proves when the distribution of the local and the second second second second the second seco

Panapermid's other big anabiem, of course, is how to



Drd Me on Earth result from an extratoropsisal ws/1?

The propercy for volence exets two a layer of buried motion magine underlying all human underlying all human unoportaint leaders unoportaint leaders unoportaint leaders become the most magniticent of volcances." —Bobart Archev

"Science is important to the priservation of our republican government, and it is also assemble to its protection against foreign power."

A BAD COLD FOR BEES

Pernetber John Bakah and the Killer Boos? New theres a new hystion the did Security Nett Eve cornedy routine one that could have decidedy unfurny implications for the nation's agriculturelistic

It seems there is a try index, feven as the adarteent rate, the first benefit and the adarteent rate of the second probatic field character probaresolutions in the term lineresolutions in the term linerated narrow was determined for the trappers where it to find a second benefit and the iterat of the sociality and the iterat of the polarisation and the iterat of the polarisation and the iteraol that all coopes had been all coopes in the term of the sociality and the iteration of the sociality and the iteration of the sociality of the social to the sociality and all social the sociality of the social social to engagement of

Apparently, the mete a Mesody save proclaim in Mesody meters the end and Mesody meters the end and meters and the meters of the Mesoda save of the state of the Mesoda construction with the Mesoda construction of the Mesoda construction of the Mesoda construction of the Mesoda construction of the meters of the Mesoda construction of the Mesoda construction of the meters of the Mesoda construction of the Mesoda construction of the meters of the mesoda mesoda construction of the mesoda construction of the

The only way to eradicate the bee buccers, Siddicus



Colds for honeybees could see! bad read for accounting

says, is to get indict every twee within a heli-mis nadrus of any infession Although the local effection bookkeepers would be classifous. The concodes, lyou'd be protecting hundreds of thousands of shire housands of the surrounding come — Bit Lawrein

Wrybody who profits from the explinitions of others probably writts biographies ---Pranklin P Jone

"Why should I paint dead lish; onions, and been gliesses? Gints are so much prother"

-Adame Laurences

"The nature of man is always the same, it is their hebits that separate them "

-0000000

For tribal main space was the uncontrolleble mystery for technological main s' sitine that occupies life arms role "

-Marsholl Mel Like

LASER VISION

Backal kwatchorry is a now operation file reasing near sighteoness by cutting slids in the oyet's comea. But even while physicians soluty early take of the technique, a new variable of the procecure final may prove mans eflective free enriciped Jacor redails kreaturemy.

In a neurophic parton the ave locates light too sharely forming an image in frend of helpin calacting rease. Recal lecatory, first based in the Soviet Union maywas making this base for comain the same time outer layer of the eye. The could from a plasmittee the spectrum is the sight house in a power that shauld inserver, seen.

The comea is only one thethol an inch thick, so it takes a statedy hand to do the ob with a scalpol At the Massachusetts Eyre and fan inlineary an Bostan. Dr Comen A. Pulatito has shown that pulses of uttavishown that pulses of uttavishown that pulses of uttavisome sub-if they are maged to form the proper sit patlem. The depth and example of puts which determine the degree of contection, can be controlled electronically So far toxewise, the least approach has been toxibil only on ribbits

Terms of thousands of patients have his subject advances, but the surgery advances, but the surgery and hard to provide to add specinistic went has though onces in carring promises operating specinistics and provide the carried and provide the carried and provide the carried and provide the carried and surgery there provide the add to house the weld through the ...

Fortune brings in some boats that are not sloered' —Wittem Shekuspsere



Note laber out allowinged spokews on the comeal it's the rewalk tech look truetment for exercic rearrantechnomics



make I a likely candidate to

-John Harry Newman



unlikely muther And d we





in new ways For instance, the happy -Enc Mahara

Trustrided love "for Mary are



freshly baked pazza even

sells, which Morowitz has



designated the MUL The too laver, the MM_

The hyped pizza leaves the over 16 250°C that's Lab point of water it's then placed

teer '--Card Deppe

Hiday matters, if comburned





n analgan notail song

ארוונינג בא אפורא אנגראל

-Abert Hubbard



To solve one of the world's great mysteries, a scientist penetrated the voodoo mystique





Provide the second s

In 1980, RJ years tore, in man walked into the TEintern markepines and apposited of Argeina Naction. He introduced himoul using a toyhood microarner of her doceased before, a mean taken of the doceased have statistic that he had been made a zomen by the broken because of a lind depate the immediately blowing the because of a lind depate the immediately blowing the because of a lind depate the immediately blowing the because of a lind depate the immediately blowing the because of a lind depate the states.

TEXT AND PHOTOGRAPHS BY WADE DAVIS resurrection from the grave ina was beaten and bound. then lod the zombio master was killed and the zombies, free from whotever force kept them bound whitevel tools app them bound to item, disported. Narcisso sparit the most 10 years wan-devegaloast the country teentu of the verspit broker it was only albe theiring of he both-et's death that he dared return to be conference. io fris village Wode Davis, a graduate stu-

dent in etimototany (the study of plants used by institional so-oetics) at Harvard, first heard this macebre trie on a rany winter evening in 1982. The









place was an apartment on the a drug, they added, would be evel side of Manhattan And the enormous. It could revolution narrators were two of the most use surgery by offering a new Initializes were loss of the most oncovered psycholizatio in the aneitholic against test instructive work: Do Nathan S Keine, a ps-orear in the skill of sysche-phermonicity, and Dr. Heine winktisk. And it could facilitate phermonicity, and Dr. Heine charter of McCal Lewanility.

Apparently Kine and Lehman were converted that the sisted that a mystorious drug. administered in proper datage. of the victim unit he abamed

be seen than those carrently swelleds. And it could include extended interplanetary mis-sions by easing statemasts and a state of hitemation. Green the associational possi-bilities, they plans for Davis were show the smooth event as being.

clear He would travel to Helt gain the confidence of a voodoo prest, and learn the mare-A protoga of the proamment

ethnobotanist Richard Evans would remain alive, and an an-toble could than insiges him at exploring the mydenes of the The appropriate time Armacon—Drives was the per-The medical potential of such feet charge Lateran and Kare Amazon-Diwis was the per-









order poying tensing to the god of war and fire it the nacred waterful of Saut of Eau. Overlaat inset vociolo a colyte at the methodolo a colyte at the methodols of Prive du Nord, For Int, top to bottom preparation of zemble antidate, dhed torc thad, poleon evident The page, top to bottom, left to right aventical checken, sto at a chief's grave. in central Host, a scene artistr to those that have inspeed the pocular addox of zombers

provided has with contacts, including Marcel Peare, a voocloo paiet importently copatie of making the zonate poton, and Mate Baaawat, a noted authority on the voocloo religion. They also gaie tim some money, an anine fictiet, and a photograph of Claivial Narchese.

Devision relations to Have four times, decomenging not only the formula of the zombae powaler but visio performance the voodbonation of the proper cutilitati context in workmailly relation that the strength of voodboechoes the testary of Hall, tom the African bits instructures and the strength of the bits instructures and the strength of the operation of the proper cutilitation of the bits instructures.

"The billiousness accurate the term book in the Serveri and the Bandwins may an book in the Serveri and the Bandwing Bandwing A Schutter) is an account of how he bound and nativation the correte position, solving one of the most paceting backgoad insystema of the server paceting backgoad in solving the servering backgoad in solving the servering backgoad in paceting backgoad paceting backgoad paceting backgoad the solving backgoad the solving backgoad the backgoad backgoad backgoad paceting backgoad backgoa

When Max Basuron and I entend the fourthur however these of hem sating with hor backs of the corpur walk of the beg (the tomple's more sanctuary). Marcel will had most of his face, offering only the same cold sating I grassitic hem the marks a place for mo beside him, near satisf

'Wel 'he sad

It don't work I told him Beautor It a opanetie and repeated my words in a low voice lacked. Tendays wolfed and not ing happened."

Narcel showed disbelief

"Your powen is uppliers. I said Then I looked around him at his two companions and selved why they bothered to hang out with achievation. One of them mode a move toward me. Becauver ordered him to at.

Mution flucteoid, and renor to fine fluct tames the working parameter of of them is the celled mer hereby note the based of them is the celled mer ontoxine the based cannot based with a bage containing the same write august not based containing the same write august not based parameters and the based of the based of the parameters and the same the parameters and parameters and the same the parameters and the same the based on anothers to retain in the based is a same the parameters to retain in the based is a same the parameters of the same the parameters and the same the parameters and the based on anothers to retain in the based is based on anothers to retain in the based to based the same there and an is parameter to based to another anothers and the same the parameters and the same there are an another based to based the same there are an another based to based the same there are an another based to based the same there are an another based to based the same there are an another based to based there are an another the another based to based the same there are an another the another based to based the same there are an another the another based to based the same there are an another the another based the same the parameters and the same there are an another based to based the same there are an another the another based to based the same there are an another the another based to based the same the parameters and the same there are an another based to based the same the parameters are an another the another based to based the same the parameters are an another the another based to based the same the parameters are an another the another based to based the same the parameters are an another the another based to based the same the parameters are an another the another based to based the same the parameters are an another the another based to based the same the parameters are an another the another based to based the same the parameters are an an another the another based to based the same the parameters are an a

Sawdust 1 said contemptuously

Miroti fel back, momentarily silen: Flass live huge particles of daet denoed up and down a shaft of light that cut across his live Looking first at me and then at Boauvor the seld stroby. "He is a deliver me."

I got to try left slowly. Tai ma then what will I de?

(2 DMM

Marcel sensed his advantage "A day is week a month, a year You shall die from hending that powder."

Show a breath and let the hall ar sink into my oftest. I could only maritain the ruse. 'So what are you stying to tell me. Everyone must die conterme

For the first time. Marcel laughed, rowcaling a low of period teeth. Looking lowerd beauvier he said, 'This while of yoars is a brave man,' and after a pause. 'but he is also very stupici.' Only lear would i dooover the the arc contraved the road action.

Moments later the subject of money relatcited Marcel's family it was one thing to queetion the quality of his preparations: it was quals another to demend the return of money that he had already spent.

By now several of his women had slipped black into the hourfour. This time, when his few into the bag. If sake with a small black vel frat he returned. He placed it delicately, almaat anverently on the table between up. Rapp till invariand his table, and madets of

> J saw a small, shrunken head, hps drawn back over triy, yelow teeth, eyos squinling in toward each other. It was a child, a baby gri 9

sweet ran across his hairless brow

"Blanc, he velied "you and your knot come a thosain infeat to get my potent. New you left me my powed a not good With to you wave my thre? With do you notat up? Ho paced and alashed the ar with his arms. His went formed a control alound mit. Them his stopped. If you do not third! him Them his stopped. If you do not third! mello good posen, he as and generary toward the table. "drivk the and pormae you will not wave your the goding."

The circle of faces challenged me Beauver could do nothing. Marcel came so close I could feel the breach. The stence was unbeautile vet only i could beaked.

Marrier 1 load infolge assuming a conststery/one. This are accentional interfere or not you can make good passion. Have the you can This who load on the constant infolse to gaid 4.41 lam billing yours that kat you made mis a way have the table, tables of the more plant yours table to be table, tables of the more plant you table table to my base the more plant you table table to my base the more that you table tables prevent in cover instable table to come table tables prevent in cover instable table to part table tables prevent in cover instable table to come table tables prevent in cover instable table to prevent the tables prevent and tables. liands of dollars from us in the future.

They were sturned. There was a guver then everybody stitlened and held than breach for a stiett minute. Some pertaps thought of the money offers may have weathed the nouth Vacolasti nation.

So youthink about list. I said, and I will be back in the morning. At that Belavior and I waked out, slowly pushing our way though he women keemen loading a next

There was no moon, and the clouds blocked the skins. A terrendous transfer storm had clacked open the dusk sky Now shortly after michight, by the roadade several miles north of Sam Nett: the devictions remained menachalo on the leaven

There were here it as - Marcel is more it as additional wave and an experiment of the second second wave exceeded draw wereing through to scar the second draw were may how the second merce of the use factor of the second merce of the seco

On a dry intol, whith while all accurations a finary based attruck the attracted damp and obsayed. The names corners, Sheet approximation bases of search attracting the search of the search of the search of the lister telecotors of the two women—Make of addition and by right at an elevation of additional two and by right at an additional bases of the two and the search head option of the search of the bases of head option of the search of the populahead option of the search of the populahead option of the search of the populahead option of the search of the population of the search of the

The term was unmarked, just addition in the last "Dia lation was an environmental the last of the lation behavior of the lation of the lation of the lation behavior of the lation of lation of the la

It was short—a mere time lead long. Jeen criaded the edge of a narrow plank. It took some time for my eyes to grow accustomed to the color of clast and death. Then lifet the leader I sow a small shark. chains back over this yieldox helfn ingue isovering in toward leach of the time a chila, a back yiel her borner indext etilt indigraps theme a sub-isient Mixeral plated a lange here ask over the colin. I wandered here colin to brit Lea invoict, the garping hele chains applied in on once to wap garping hele chains applied in on once to wap the Bockes decompose methy in such a sumet. This child call and these bann in the grave a month Jeen filted the colin cristins read and began to walk down the chain

Three dups later Massel led me to a down had opered on a optim which hadrold with cach and breath. Joan whe with us, and he and one other associant canned a medi pail, a cloth pack, and a motima and pastel. Marcal had a with befolkow spinolity of the sam. We disped when we resched a small in parking wanded by a masses alland of boothol links and a well look. Leve wereything when in this washing at the schemp and boothol with the set of the state of the set point and hand a set look. Leve wereything where in this washing and in was sharp and pointed and beat age that burned

Matted lock his place in the meals merry is a graphenial. I can the buildcase - He placed a thurdershore (is stored) under series and the means the his hard cavend s with a place He stored a match or beging through their means the his one show the with the alamic target series own show the with the alamic target series of them has a series of our finals the build of the costs at the add not initial the build of the poses with with an of we endlaw.

 creases also the arms is threatened or transition that plans means to varial tables that plans means to varial tables that plans means to varial tables and planted as a sheat here threads any thread tables the means and planted tables and planted as a planter threads means and planter and planter and planter and tables and planter and planter and planter and tables and planter and planter and planter and and means that planter and an anomala information that one case interposed to be and and the object was planter and means that the and the set of the set of means that the and the set of the set of the set of the and the set of the set of the set of the and the set of the and the set of the and the set of the set of the set of the set of the and the set of the and the set of the set of the set of the set of the and the set of the and the set of the and the set of the and the set of the and the set of the and the set of the and the set of the and the set of the and t

My attention was diverted by the young assastant who had taken a metal grater and begun to grind the lip of a human table collecting the wherings in a small in cup. Jean meanwhile had baced the fresh and dired.

The toad and the sea worm had been placed in a sealed container overnight before being killed. This enraged the toad, increasing the power of its poison?

arimals on the grill and was ideating from to an oix consistency before transforming them to the montal. The boost of the child stayed on the grill until borned almost to chanced. Then they too were placed institumaniar by the small the ungoaldings was ready to be crutited the stroker that note hem the versel was a consistency walker.

On laters Surday / cessed hough U.S. mergenesis all knows and where the two budgets all how sought has a set of the set of the cesses and how sought has a set of the the spectrum remains measured laters. A comparative set of the set of the set of the weak is assessed later of the set of the weak is assessed later of the set of the set of the set of the set all is a short later of the set all is a short later of the set all is a short later of the set of the

sudcese took a quick took, and told me he clicht even want to hear about it. He never saw the load

There are to one or whom to tray listen the first the second second second second second particle to Boards arriving in Cortecting Second seco

Table () and crows for non- planar the processor in the provide to the set of the planar than tool a poor and too the board of the planar than too a planar too the set of the planar that a poor of the set of the planar balance of the providence in Monoral polated that a planar that the set of the planar well balance of the set of the planar too percention of the set of the planar too percention approximation of the set of the planar too planar too planar too percention of the set of the planar too percention of the planar too planar too percention of the planar too planar too the planar too planar too percention of the planar too planar too the planar too planar too percentions and planar too planar too the planar too planar

I doi-11 like molicing to realise that it is more than accounter where on it. The monitorial search accounter where the molicy and the search accounter where the the molicy and the search accounter where the the search accounter the search accounter where the search accounter the design in the search accounter the search a

Tetrodotoon's rafe in human history maches literally to the dawn of ovikation. The Egyptere linew of the poison almost 5,000 years ago a figure of a putter feb epcontention on reace.

FICTION

The mysterious odyssey is haunted by dream voices and animals made of folded paper



Edia one evening and duky cursues it than extend turn to work a painting that hung upon the war i of than rooming house Wingspeal award in the verse was a life sorth of paper i topenad in and saud. New you have new in the totalen content of the toper view the most life of the the sorth takk upon reaction of life of the the sorth takk upon reactions of paleng i takk upon the wen't aligned it in my pochets as a boovery.

I made inquiries no one onboard from cabin boy to calcillat, recalled is passenger with the habit of folding paper into ittle animals. But when we docked in port. I had not focustion hm.

PAINTING BY GEORGE TOOKER



I wandered the bright waterfront through the ech smells of cason-spices and that of it is a smell to make you think that disa large pecking crate watching the great nets swinging out of a ship's hold. I closed the event I defined voices came taking of strange things in disjointed ways I couldn't follow Yel I fell oddly at peace with myselt. hall asisso in the most assault. And laured

I waked studing now to a dreamy car tarty and the strange yoptis in my freed continued their mad talk, conversations intassecting, wild langents developing, the whole of it making a beam sort of server a waterfront calle. A pocket of silence envalaced me Here was where I must eat

these heatsted a moment while deciding where to seal me. And then she assemed she said. But there was no view at all for the wodow was several fast above my head. patch of sunight on the wall. "Yes, \$1gt s 6. she said "you watch if closely

and every so offen glanced at the square of sunitcht on the wall I noticed, linely that cast by a tree outside which swaved in the althoughts of a unicore, dancing in the surloft "Is he too that makes it the branches

And who was this condeman?

I could get no more from her than that. As I contemplated the dancing shadow of the

-Now that you've met me Can you forget me?

Wy citat burned to a fine white ash. The girl prought me more collee and laying it down said "He runs to the east Who, in heaven's name-

"Why the little brood Sou? There the way he calicos And in a minute or so he'll deappear becaute the sun free moved. Her

He calloped to the east slowly lading, and

'Thore,' she said 'all gone. But hell return, same time tomorrow

I traveled in a ratting old gatch, not really my hard wooden seet and gazing out the wridow nodded off again the drasm voices. went streams. At one point, I seemed to remember-a piace to delotifui e could not an immoree beatfude and there was no shubble I came amake with a pit and barrand my head as the train braked into a station | had no solve where I was ... and so

the platform was empty surbaked. a muscle the sky #set would pour sto me and lifetened to it chucking of into the de-

'You'll need a cab.' gaid a voice at my

11 you are conta anywhere you will "said the cabman a cruft-coloro telow macre Im looking tor someone, I sad

"And I shall help you trid hem." soud the

"He toke bits of paper into animals." I sad showing him my unscent

6(turned back lowerd the door, where J saw a white math impresented in a spinier's web Stepping cinser I saw it was not a one made from folded paper 9

"Then what is the point of my searching head

"Who knows? he replied "Have you a think won'l be another until tomorrow." He

as our cab project its way into the traffic of

The cab was hot and the city was allab with of winding larve brough which we gether, and people crowded on the sideweiks in front of them "Amonost so many" I

Because hell stand out in the crowd i said Pelcabrien. The sun wil after on him for you live been on this sort of search before

"Another stranger, like vourself, came man who was not there. We took this only ocart III tel vo.

My claim was not disseasing?

I rock, I watched i saw the chyls face m doorways in windows in the deep glacks of the parks. "Who was this other man who

stopped for tes, we sat in the park. Then later we drove in the falls, among the chick. he said you'll not forget me

man I searched for had been here had hered

in the surger include at the of chains. Why knows?" said the cabman. All this hour he

We looked at the clouds, and I saw all oh way troad with red and gold running it iported it out to the cabman and he said

asles hold children small arrmals chick writi we twitibled around as we note 1 day-

The bue made many stops, and when it tein willage I dinever heard of. After this brial water sinder on the sun-spatking over of the been sealed beade me. He turned to me

I woke with a start and found the seal empty beade me. I looked out the window and see the man waking up a nearby hill with writes. He turned and looked at me

beyond the vine-covered wall I rushed to farm A smell main house with doots and windows twoming oil stood in the midst of a jungle that was slowly swallowing it

I stepped onto the preaking porch where with moss, and whes prowing out of the foor izard seemed to whisper to me with the bi

Breaking its spell I turned back toward the door where I saw a white moth imprisfrom a bit of folded paper

crowds, a great market, a tangle of thousands. How could I hape to resume con

post and was drowned in the voices, the was a seller of heris, with mus of cames,

He cherted the over and over and his brds mutured and scueweed 1 was weary. car to speak I said Listen to the bacts more cansuly I turned an ear toward the capes of their speech. Their inframan rasping know carried the deeper with a subler within our own, but whose features were

I conned my even. The weller was stand-No bads so rare as these. He extended his

I saw a black-and white dove as gerife a

certified bird

"Certified? Briehom?

it every to altotel room

to watch "Fly" I said, and opened the cape

sends of birds. I drifted I deserved. I fait other eccentric an idea nodding in hall-sinep

mies of And of course I found my way there

No? Private investigation I say well you'll have a ob of it. The country samilous trees



like a too availows grasshoppers." He sat ced iemonade "I come through every month symething to hade land here is your chept

I'm not sure what he is."

liked hm for he taked as the orcades and with an increasion discount

"Yes live met some odd ones. They work in the surgles for a while and come out half mad with a little money which they quackly no sol said sony it washt a writery ld leal wondered what his story really was

'Wall hits carbanly not how row' The salesman spoed his lemonade." I never did

place" The salesman wood his brow with a

"Now you ve met the you won't forget me

He dd say somehing like that Well be

man I never saw a tecluse like myself. But strangers taking traces of their multied ayes of years! bugs share. Then somehow I was startled out of my transp

I heard him singing as he want down the writen stars. Was I stil diamon? The

Lurking deep within our chromosomes are markers of our destiny. And only Jorge Yunis can spot them



BY KATHLEEN MCAULIFFE

Geneticist Jorde Yures who the mantle of a medical researcher will be able to tell you a great that you want to know apalés ancestors were beaded persein of dark also spot subtle canesc orders. He is presently healthy people might sprincipy be able to take types of the days se the general public The cot pood panes." he says clearest to him rarely ea-

When Jorge and I

search first married." m. calls his who, Marx, over quested a blood sample' 'Will?' Everyone at the table looks areaously to 1 took out more life an-"Weren't you alread of "No." Many interests family, so I already have patients are likely to live-Colleague Bill Heffchromacmes and the man another fored who acid- that ment been to ner adds 'I donated tecting out phromo-"Thid was my monkey agents And the Colomthe group asks

visitits "I was said that it

measures that could exprove the odds of producing healthy offspring opened up a painway for retracing the footprints of mit has identified a chprevent cancer by pro-

PHOTOGRAPH BY DAVID MICHAEL KENNEDY



timidated by his own prophetic powers.

With my histman, it is apposite to possible to setten the developing tass to ensure the mpetrectory-missing interesting the mental related as were a tendency lowerd promoture graying of the har when the chall grows up. There says. There is just no bailing how paint's might react to that kind of information."

Fearful of ushering in a brave new world of ougarics. Yuns relates to publish his peper on this particular technique. The documist hal languathed in an office drawer for the tast theo years.

A copy fifty cons, thin is a spouli-lively, ingree with each shower leasters related on opport or the the conventions rearries on the third of the convention of the convention of the constraints and the convention of the constraints of the convention of the convention of the constraints of the convention of the designs, the convention of the convention of the constraints of the convention of the designs, press evolution and any here, and the convention of the convention of the constraints of the convention publication are indexing and the convention of the convention of the convention of the publication are indexing on the convention of the convention of the convention of the the publication of the convention of the convention of the convention of the convention of the the publication of the convention of the c

Although Yuns is well respected by his peets, his work is knownedic contravensis. Some laboratorias—our cale included have flad dhoury replicang postami fridings he has diserved in caspor cells. "Says Dr Robert S Sparks: of the University of Califorms in Los Angeles." But hat may be backade Yuns is a very centrit interest-ber and spands all col time and alforstaget the realist he does."

Actually III easiest to find hose who apploud Kynhis work than those who apploud Kynhis work than those who application of the Saurun Once haad of the department of biology at the Chy of Hose Finasanch Intel-Nak, in Dante California. This lindings hold up, hivy caula uhin outs be of region signifiotono—etipocally in the area of cancer privention.

A self-laugit contexts, turin attributes much of ne success to his starting in a labiareal engisted who withduing to be the two exits of the sector is to shock before an exit work. The central to shock before are aware three. Turins are integrits that the sector is the object systables of the native Sparsen brokes. The terms a heads but for some based on the last third data that we excit at be brothere were supposed to start a clefulth that are.

To the arry Yuns series takked a Seedlaw ethyliologi the negrot taking atthe total nob tubing his some nacional methods and ins first teacher with great attoches. The wold of the accentrapity as into the forestic of norther Coloniba to study the weldla and daw charact of the invent had weldlaw the daw charact of the invent had weldlaw to with others types of fair. Yuns regist with others of post of the invent had weldlaw to an endowed the source of the outweldlaw. hol willage, where seastas were considered more integrativit than science."

In the and the lafter's vector was needend-in teach part. The law bordners all comparised their medical travery by age benty-one. Built the future cities may meterate the selection of the traver traver vector. The travel man is to be accotation to car benefits for any you could be sentrate. This explains in game you could any that we introduce a comparison A files of universities and the second contravel travel beam.

Turne strend at the University of Mitroscellas Niko Menical Buildhigh 1986; twoing confused if with the paragrass Niko Quantaria in the nancto city of Rochegler Built the crossos of code of capas suitual him With a small card amoroscope and a podemasaria or ingenuity, terporeend inrovative techniques (or subjerg chromoannes verstable) eering Innors fan intertational imputation in only the last he prest' stray Di oe Hin Tjou a presenter

Git's now possible to screen the fetus for impartiactions missing kneecaps, even a tendency loward a premature graying of the har when the ohild grows up ?

peneticnit withe National Institutes of Health in Bethilda, Maryland, "Tunis has risen very quickly to prominiance."

Write sent batter uson a landmisk dar covery by lije wine 1926 bund that a human cell lipically contains 46 chemomans, liber chronome a 6 keg, annay sines, liber chronome a 6 keg, annay the form of head ke molecule cluber has been of the set of the set of the set chronosens, beingsteet (luber a moroacop chronosens, beingsteet (luber a set chronosens, beingsteet (luber a set chronosens, beingsteet (luber a set charatoria di set) and a set chronosens di set opport, and the norm cluggtar call de rois que with the norm

The enformation encoded in each chomotionnet DUM determines wate body induced the second second second second batter partners or its for podoto mulicit, between the transmission of all these encodes to make resumancements, and encodes to make resumancements and encodes to the termines of all these interest and in turn, the impact of all these different gandes instruction determines hands states of team enclosed where there the Lake making other medical researchers, hit is not and granding the presence information on the start and granding the presence information of the presence information of the presence information of the start and the start and

As important as the broakthrough was be early already becompared and many disabates. At licel, any 6610 tenets could be detended or each chromosome and sky early disabates that the large for the second becomes was detended to the second becomes to determine their such states detachtors: exceeding and their such states detachtors: exceeding and the such states detachtors are detachted the many second becomes the second detamations and becomes the detachted the states and the second becomes the detamations. Becomes the second detamations and the second becomes the detamations and the second becomes the detachted becomes th

Through pomeweivnoe insignition and these totals from Yuns successful when others had listed. First he deviced chemical methods of anisiting lange quantities of cells at exactly the same stage of cell division. Then—mitre works of colleague ()offman— The delivered the covering blow.

Organity: "Yone explains, "I would such up her will suppresent with a primpe and as flaguestack outthe content investig wing the cells onto glass side taped to the wall. Sparid Spain", the yess jety to pile an exeautioner antimaties with the sight of bood "Untrivinety" he contrust, "Its proved too agressive The chorecence were settemed becard recommon."

Yam decided to try a gantler method "I flocated photoBox—a photographic otherscell hat reduces surface amount—meth helps to stretch here out, he says. Yand in face a did. The problem is that if worked too well the chromosome became to strengy that the record you althread them on to the skile they would worked not not be skile.

When occord talks Yuras reverted to coercion agan "I got this size to blow on the chromeware to faster them out So 1 built a machine with a tale mouth. Then 1d blice the chromecorres on a glass slade in track of the mouth, and is bard of an world shoot out at them."

The "imput" worket well encough unit IVing same up with the supprese method of chromosome tortune—a refinied version of a plate this thick placed at A 25° angle to the tort "this file-balance and the additional to the torto this file-balance and the additional to table this way is subset, the data the optimized the tortig on impact, the otherwise line obset the sites sphericing out in beautiful balance and the sites sphericing out in beautiful balance and the sites sphericing out in beautiful balance.

Where the old technique showed only one detant a remarkable 4,000 bands per 45 comble And today by switching to an elecments, he is almost up to the 10.000-band mark. "It is estimated that there are about there is an average of approximately six

had cancer cells divulging their darkest, innermoet secrets "In 1992," he save, "only volve chromosome defects. But with our cers-distriction say some ninety-serven per-

Yuns risked his professional reputation by but a cause "Intending H, our asserbon may

Yune observed that cancers of the blood

tons. One chromosome swaps pieces with another in contrast, solid tumors-cancers of the lung, colon, and eve---usually involved deletions in which bends or even more important. Yunis found that certain

Yuna cites acute nonlymphocytic leukego into complete remeason. Patients with an estra copy of the exoten-ipropert phyomovival is len months. Multiple chromosomal defects lovetell the bleakest outlook. The pa-

An accurate prognosis is crucial to doctors looed with difficult therapeutic choices. Yunis ponts out, stand the most to gain from catients with more moderate conditions are plants because they are likely to live long nely, patients with excellent prognoses can

ins predicts. The leat will be used routinely

In the meantime. Yune is turning his forediscovered some 51 "fragile step" on hudation, pertain viruses, and other as-vet-

'More stuckes have to be done to verify

EARTH

right hand weaving petterns of movement watching smelling, and latening closely The

Then the most uncentry thing occurred 1 saw a dety velice glow cube out from the me a barrier or signal that defined the group Fish I would disappear if I only blinked. When

right lifet he was slowly becoming aware we ware in their clance logother and \$151 if

he began to mown. He kent the distance had slowly while I played my music and danced

Perhaps 15 mm des later I was o illed to shouting from very far to the rear I turned ing on the knoll waving his arms media. didn't fully undetstand why he was so upset hetween where i stood and the distant knoll

It was impossible to move There were as big as houses but they didn't seem to

correctament stared at me as Lapproached gints on their faces. Then they applicaded

Three weeks later I aat by the phone surcalled them and was told rather bruspuely. absolutely useless. He had gone over that footage for the better part of an alternoon a shall All he could see was the pluring of An hour later the quy was still inching forwird it was hopeless

"What about the glowing ring?" I said

Well if only that has builtain had more ahead and charged. Not anything sensus menti you but even five seconds of a little the seament. As it is we ended up waiting

pail don't ma DO

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FICTION **ROBOTVENDOR REX**

When an automated chuck wagon laden with sunk food appears in the middle of a mandrove swamp, can the cavalry be far behind?

BY ROBERT SHECKLEY

PAINTING BY COLIN HAY.

through hundred hours. Mordinoa: Gastoria Forti door scienter antounceo me emporta-rederal Mar Camer 198CU (tobo): temporta-Averagiance Field Billings, out on sick leave 'Just put

Gastonkneed was the merilier that he had ordered bies. He camed the package out to his temace re-pasted in the lid telling him where he could buy one the fiver to the Dade County power and

He get in and switched on The power indicator hold ployed a healthy red. Gastion touched the arring heat have to the youth. He was almost halfway birked three times and went out. The fier began to

covered consciousness. The weler around the mangrove sland was still forhed. The filer was wedged into the close woven network of mangrove boughs. Their resiliency hed asked his life.

That was the good news. The bad news was, he was lying micks the file in a naally uncontrolled position, and when he tradito by get up, a fash of pair went prough his will leg, and he altrade passed out. The leg was twitted under him at a chance analo

It was neally a stupped accelent. The Rescue Squad was going to ask some emberrassing questions when they came to get him.......

But when would that be?

Nobody knew he was out here, unless tho solog postnam had seen him fly off. But robots wore not permitted to talk about what free saw people do

In an hour he was supposed to be playing arms with his best feend. Marty Fern, Ween he dan't show up, Marty would telephone his aparament.

Gaston's scenner would announce that he was out. That's all it would say

Main would knee on phone and or solve of get really would help had an estin key, help photolity check denorm apartment held fraue dation had gene help help had how could he tell in what dereter? Seston could be half well and the way to Caltomis Therein be no reason to tast to being for him in the Everglades, no reason to assume held grashed

It was early attempon, and the twentp was way called Alting langue wood as the passed eventual. A cars paw of word number the shallow surface of the swentp and then it was gene Samathing long and gray was foamgroward him Aligator? No it was just a wateriograd tree hunk.

Gaston was sweating heavily in the humid ar, buthis tong as was dry and his throat felt like sandpaper

A termit crab, panying is couch shell home came up from the water to look him over Geslow week when by its remding a shock of pain through his lag. The crab acutted away a few test, then stopped and regarded him steedily. It occurred to Gastion that the cuabe might get him before the allastors pit a chemos.

Then he heard the small, this sound of a motor He graned, assanced of his own laave The Rescue Squad probabily had tim on rother all the time. He should have realized that a person can't put wanish like that in the day and app

The engine sound grew louder. The vehicle was skamming just above the surface of the water coming straight lowerd him.

But if similar out that it wasn't the Rescue Squad: It was a scalad-down copy of an oldtime chuck wagon. Its driver was a humoroad tubol drivered in white years and an open next sports shirt.

Howdy there, partner ' Gaston said form



from relief. What are you selling?

"Tam amulguyees toxing wainting mochine" in he obto sad. "I work for Greder Main Entroposes Our motis is. "Entropose makes its raise in clinasa places." We find our outstmess in the besivecids, computhatings, and in the motion of payering like this ong. Were robotenoids, and my name one for Wete robotenoids, and my name one of the weath you loss of Cogastero? Hist stog? Soft on %2 Sons, but well ends!

"Tim sure glad to see you. Rex, "said Gason." The had an acoclent."

"Thank you tor sharing that with me, sir" said Rex. Would you like a hot dog?"

"I don't naved a hot dog, ' Gaeton said. "I ve got a broken leg. What I need is help."

Thope you find it the robot said 'Goodbye sir and good luck

Wait a minute? Gaston said. Where are you going?

"T must get back to work liair," the robotrendor seid

"WI you report my accident to the Reeoue Sound?

"I'm alraid I can't do that or We are not permitted to report on the activities of humains."

"But I'm asking you tol"

"Imust go by the Code It's been noe taking to you air but now I really must-

"Wait" Geston cried, as the robotvendor started to back away from him. "I ware to buy something."

The robotvendor returned cautously 'Ara you sure?'

"Nos "I'm sural Give me a hot dog and a latge lemon soda"

Thought you had said that you cidn't need a hot doo

"Inteed one now! And the social"

Galiton greadily guiped down the socks and ordered another

That I be eight cloTars even. Rex said

"Loan Lgiflat my wallet. Girefon esid "Its under me and Loan timove."

No need to detuid younsel sir. Hex caid "Jam programmad by the inter to assert old people, organized and multiple and multiple times trave similar problems. Before Gas to caulid protest, the robowerdor had entuided a long sitemy tentable shaled out his wellet, taken the right change, and enturned the wellet.

Will than be anything else sir? The robot solved backing his vending craft away from Gastons stand

Typu don't help me Gaston said 'I could die out here

"No diseaped intended, or the robotvendor said "buildeath sor a lobot is not a perfociantly big deal We call in being aumed oft. If is just one of those things. Eventually somebody comes along and turns you back in lights. On it no one obes- you don't even know about if

"It's different for people." Gaston said "I clicinit know that isn" the tobol said

" click know that sn" the tobol said. "What is t like for people?"

"Nevermind: Dan't go away! I'm going to buy something else!"

Tim really spending too much time on control in or way to

Before you go digging, take a moment to inspect the booty. All of these riches await your luck and skill

OMNI'S PANOPLY OF PRIZES

























The following descriptions correspond to the numbered protes tools call he also arguent in participations 1. Chard grade in the Grant Chine Thousine Hard to an 1988 Audi AVOCS Center bard STA001 2. Strend prior to a side and here Remargian Hard STA001 3. There prior to a participation of the according Audit (burk) is storticated to have constraining of the constraints of the burk is storticated to have constrained experition Charden Woodwork 8. Design to 4. Fourth prior (burger) here Originated Woodwork 8. Design to 4. Fourth prior (burger) Alweore Woodwork 8. Design to 4. Fourth prior (burger) Alweore Woodwork 8. Design to 4. Fourth prior (burger) Alweore Woodwork 8. Design to 1. 4. Fourth prior (burger) and the stort (burger).

Fift pices after Complete Nakon Pho-Am Camera System (53:07) 6 Sonh press a con-veck tip brit holo 16 And Janase (52:03) hon Pha Amsecan World Anveys and Mela Istemistacel Aschman Jones include the Subwarg '7 April 16 Local Computer (52:09) have the set of the Subwarg tip and the Subwarg and the Subwarg have the Subwarg Subwarg (51:08) and 51:00 Complete (52:09) Management deviate the Subwarg The Complete Subwarg (52:00) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (52:08) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (52:08) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (52:08) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (52:08) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (52:08) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (52:08) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (51:58) have provide the Subwarg (51:38) and 51:00 Complete Subwarg (51:58) have provide the Subwarg (51:58) and 51:00 Complete Subwarg (51:58) have provide the Subwarg (51:58) and 51:00 Complete Subwarg (51:58) have provide the Subwarg (51:58) and 51:00 Complete Subwarg (51:58) and 51:00 Comple 81.05%). St. The Mestmone Bulles in a Box races advanted an vacuum Machan system (Birls and Hard State) and State (Birls and Hard State). A state of the State (Birls and Hard State) and Anappare and the ostered State(Birls Reyard Diamoti) and the ostered State(Birls Reyard Diamoti) and State(Birls Reyard Diamoti). The Back Make assisted in Yangkan and Hard State(Birls Reyard Diamoti) and State(Birls Reyard Diamoti). The Back Make assisted in Yangkan and Hard State(Birls Reyard Diamoti). The Back Make assisted in Yangkan and Hard State(Birls Reyard Diamoti). The Back Make assisted in Yangkan and Hard State(Birls Reyard Diamoti). The Back Make assisted in Yangkan and Hard State(Birls Reyard Diamoti). The Back Make assisted in Yangkan and Hard Back assisted assisted assisted assisted in Yangkan and Hard Back assisted as

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A dozen clues are buried in this issue. Follow the directions, read the rules, and you could win

THE GREAT OMNI TREASURE HUNT

peopler and drive live relations to choose with new first solution to biolds a refrequence, like all goodnets, control to biolds a refrequence, like all goodnets represents and to fill being passed. They results that for days asserts for knowledge tolds the parents of a future in which that ordened and with an enable gradient works of the species as present the Cance. Those to have an exact in situation and with an enable grad passed in the state species and participants and the species of participant in the species of the species of the species participant in the species of the species of the species of the species in the species of the species in the species of th



maladar of other goal backness, from a horre-entritormant context to an utilized watcher. Hore are the tists: East of the dozen protoa queering on one of the popts on the instragation of the popts and poetering on one of the popts on the instragation. If could be a phote contained in nm inderwisement for gain of an Audia to a companying annihistic watch could be a phote of a pagementice of coest. Here was on runnels and the other the pagementice for coests in them and in other the pagement of the other one and the inter and includes. The object of pagement of the other on the their number of bolds. The runnel of the pagement of the other one of the page theory and by the million of the other other page theory.

OFRICIAL RULES

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Henergi, Torosa an the control of the winners S. For a lot of maps prosentering of the winners 5. For a lot of maps prosentering, such a storipod, soft-oddressed envirops to Orniv Winners, Box 751, Lowell, IN 46039, no hote fair-Jane S3, 7865

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DESIGNED BY ARTISTS, CIENTISTS EXNIBIT LEE FUNKY TO BE PLATED TNERE ARE NO RULES AND NO GUI IF SOMETNING BREAKS, THE MUSI TAKES THE BLAME.





where wedges can memory Tale prema to make randow deachs. In another exhibit by Miler (drectly above). one person faces another pigar) of his counterpart. The mage of yourself (preced- Argon Candle (sbove left) a ing page) or melamorphose tubo of light emiting cas. nip phantasmoopric crea- allows participants to draw tme-deay video camaraa, with their hands, which attrick mittors, and other tech- traci the energy as lighting nological props, visitots to inda would Hands also per-San Francisco's Explorato- form magic in a perceptualrum can have tun with sca- illusion tohibit (above canmon and as photographic list), which produces its of-Alter Leverson shows here loct with a somming neon become transformed by the tube Held against this dypropess Founded by the namic backdrop fingers abaFrank Oppenheimer, the seem to bend inward. And museum uses interactive the whole body is transworks by artists to reveal lormed when captured in the natural phonomena in a new reflection of a pane of scapway The Sun Painting" (laft), bubble tim (lop) Play, as by Bob Millar, directs sun- Frank Oppenheimer was acht though the soul of the fond of aixent is the out

Dance with a psychedalic building to the main floor, to learning DO

ROBOT

qualit to please you I went your entite stock.

Wy credit card has an unlimited rating

You belter slart writing up that order

roturned it for sustature Geston scrawled with the ballcost per

Where shall I put the goods?" the lobol-

Just ple them anywhere that optime the whole thing again

The works. How long will 4 take you?

Then take care of my preordars. Than 11 gat

'That long?' Gaston said sacly

statting back and forth between Gaston and pling up all kinds of goods until somebody

But three or four days, that was different "Forget the reorder" Gaston said "And stake t all to a friend of trine it's a off. His

asked "Did you want to include a message

Thought you didn't selve messages "

"Of course." Gaston said, his mind alight the Everolades just as we planned but that

Way craited and that I'm planning on clans

Committee, 11 send it along

"Its an information that we relate two messages in spile of our protocols

The robotvencky left Gastor's leg was even if a did would Marty rever the callokert of fellows: sovice that it was a call for help, not yok a joine? And if Marty did catch on they long would it take two to verify that



He fried to move a little to ease the pair

When Gaston recovered consolousness intravenous drip in his arm

A doctor looked him over and asked whether he telt able to speak to someone

The men who came to his becade was uniform of a park ranger. Tim Fletcher said "You're a lucky man Mr Gaston The

How did you find me? Did Marty get the message?

"No Mr Gaston, sted a familiar voice

room standing at his becaute "Our Effici slichtest hert of our helping humans, vo.

"Litering a federal park with your smashed minifier Camping in a federal park without

Fletcher aad, with a grn "Next time make

spar orey They their that I'm suffering from

What a that? Goden reked

It's a progressive disease that infects

trailing an intravenous drip. You clid it for

Robotvondor Rex went to the door. Two robots in bleck sumpauls were welfing ital metal wrists and led him away DO



1 No. The many plane needs an aeroth-

3 Rel Sult Sew of perpendicularly to his bese pant, in a straight the to the other side

5 No Precession (wobbling) is caused by

9 No Grocos wasn't able to get a verve to keeping its mass at the bottom of the string vo-vo comes back to your hand. In space gravisational force to prevent # "Walking the in do n space "Spootro the moon" howover, mwhich the yo-yo files out honzontely. then loops around the hand and up toward which would use centrifugal force to make a worked except that there waant enough

10. When the treck cluickly back and farth and the plastic wheel's own metta gets it

11 The wheel pulls the track forward, server

13 One cride could more the other they could pin into a figure eight, or the two could form a large 12-circle

A White red black green blue B You ISI day (18) / 24), me (112) C in the top 500 D The most common two sallable words







NTERVIEW

What makes Jimmy Cricket sing and the grasshopper fidale all summer? To study the "big sumpers," the number-one orthopteran expert is willing to risk life and limb in the remote outposts of the world



A s a boy in Alnca, Daniel Otto hunted two cerne Now that he is director of the department of entomolatends his work. In a recent three-month period Otte tracked shields on Exer continents and a remote archipelago in the outer choose between strong hs night s work in his night swork in his night

previand saving his own skin. On deserted road. One night during a companion bagged a variety of prokets in this remote lungle their presence was not appreciated The two eniomologists hastened to chop their wilk out

PHOTOGRAPHS BY TOOD JAMES



Example It's a fundamental human activity to name and classify it's basic to everything we do You can't study something before you know what it is 'You can't communicate without nouns, can you?"? he has explored the world's widemesses contracted exatic decesses, failer of cliffs, and come face to face with lons

These is to lack of subjects for the neuron hutter Arch entry goes, after the back God men Name, and the annual to the welf orders to be the duration of the second second second metal second second second second second second metal second second second second second second reacting than the Issach Nat only are there weaking than the Issach Nat only are there weaking than the Issach Nat only are there weaking than the Issach Nat only are there and a second second second second second colors --buttering Ancort runnor ongrating of the Santhersame Issach second Set Indoor second

Among the views, catagorue of unreligibal war metagorus and categorus and deep learnancelly annual categorus and deep learnancelly annual categorus and deep learnancelly and the second second second and and the second second second second and Grybland and the second second second second Grybland and second second second Grybland and second second second Grybland Second Second Second Grybland Second Second Second Second Grybland Second Second Second Second Grybland Second Second

The lass of a motioner of German and Romogramitotics (The sea staud). Table Romogramitotics (The sea staud). Table Romogramitotics (The sea staud). Table Romod the annuals benefacily in a state in location (Lasses) and the sea state of the second control of the second sea state with the second second second second second the second seco

The protocil of interrology has changed only m2 20 years, and cold has baloe altholated to of the low and cold has been althoted by the protocil of the three more devices the protocil and the protocil of the sources to getties and the protocil of the council you of the three more than a difficult of guilal logges and orders. In the ware polycing council you of the three more than a difficult of the protocil of the source of the source sources to getties and the ware polycing and the protocil of the source of the source sources on protocil of the source of the source of the more than the source of the source of the sources on protocil of the source of the source of the more than the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source of the source of the more than the source of the source work has resulted in the discovery of at least 20 different species of American field clickets ence recarded as a sincle species

Other analizative directed processor in surge port of the result of the transition of the directed port of the surgest of the transition of the directed port of the surgest of the surgest of the surgest of surgest of the surgest of the surgest of surgest of the substantiant of the surgest of the surgest of the substantiant of the surgest of the surgest of the substantiant of the substantiant of the surgest of the substantiant o

Gisstitupperi being to the order Orhogines which recusts oscilatations and martesi (such as the prange mana) as well common usage however, refere only to the solitoners, or tog utilized, including order hogens: motales, andiszyddist Greethorpers are a larger group than cackate and more weldengist in the tomotatio zonos anging in the summer-presidence to well caches and the

Cities books show greast topper that are stripped and length wright, and thinged lake techtpicle. Nearly all have the building systs (that never close) belowd by home movies. Less wedent are the finalther travers can be addoments cincles have been another topol lace.

All sugginguiser opposet areasy to coshthey are additude to cash-y Members of the same genere may look difficunt diffacer internet may look the same. Many species and same that have been as the same set And when Otto neeps in the field to cash and as the meast and a tecorating of its strap. An autopercorporalise to makes the same set of the same set of the same difference and and the cashes. These is of quite the equivalent of a same theory in the special fibre and and the same set of the same special fibre and and the same set of the same special fibre and the same set of the same special fibre and the same set of the same special fibre and the same set of the same special fibre and the same set of the same special fibre and the same set of the same special fibre and the same set of the same special fibre and the same set of the same special fibre and the same set of the same se

Phasespinas Academy of Neural School proportions with the calcular of the second holds the vector calcular of the memory favoral Cells in the offset Have I has hereing favoral Cells in the offset Have I has hereing favoral Cells of the the Alexan cells and have the the theory of the Alexan cells and the theory of the Alexan cells and the Alexan cells and the Cells the Alexan cells the Alexan cells and the Cells the Alexan cel

Dressed in a crewneck sweeter blond-

haard and blue-cend Otto himself looked much more the explorer than any image of

Orari: Do you look any need to purify spand-

Otte: What sciences/? Naming and classvery well communicate without nouns, can port Western states are constantly balling grasshoppers. Many species are involved it's not were to go out and start spraying them all because only a few do almost all the damage while a whole bunch are downinght beneficial bicause they feed on weeds. In

Own Detworement wets that all espects were accurately classified so you could concern

One I deform but now Hed elessingtion no, much at my signifing relies on dues from annual bahavior, like their songs (but an explorence tree, ideally I'd like to rait excites me light to know where these twos they're related to one another For mo. taxcounty is more rewarding then measured easily then welching one grasshopper spenies for reactions hours

Texperiority has given me a wonderfully di-Even in the periods when im sust when inmicroscope every single specimen and reneated I look at a different it's ameging how interestion of major groups and where they

Orany, What chd you find on your recent true

Other Almost everything you find on those body has studied them. In 1964 we went to New Caledonia and were amound to find that the cricket fears there were utterly uncon Recause New Caledonia is on a cart of the Australia II sports now that a lew early pronervice on New Calacterss explicit and top between the crickets there and in New Calociona

We tound a back cricket on Fill, which to us is like lending a hippopolarius in Mexico. The rappingerest bark crickel is a froutiend thilds away across water We had problems.

however, i can also a piert that gave me a

clerify place to collect, where the round made in but we didn't pay much attaitaon. Whon they had twind mean across the road- if were Incharang, Womanaged to get out, but we deht to back Collecting on the whole want twery good it was the rarry sessor-

Centre What do you Park of the croup of tax beloasts are set including in guastwork? Other You mean that arth-Darwessm bursover again. I'm sure I could corwince any one of the relationship between a tossilized

Wie have ints of southed crickets Some species today are represented by a sincle smashed specimen But that's better then having only a lower jaw?

cricket wind and a modam cricket wing All zin would'ill it logation at all and they do

Otto: Those are some but prepout few We know cuite a bit about chokets and kelly-

Orney You're service that there was one ong

One Oliver Whenever you have no count-

evolved independently Look at the petiern

up with that two? Ketydids have a similar the cleatical configuration. The chances of

completely unrelated apactos from Auglands for ressorts of crypast carrouflage

One You can't if you not by look side you're

less Many related species don't look at all

Otto Crickets aren't very easy to catch nie soo them Reformus, them were no soo pes. But he worked from afar and mistemore contursing than helpful to us. The main

Denve At what poent cast you say This is a

Oter It they no longer interbreed in nature,

have homandous problems. Within some

AUTI®MATTER

Are preceive whe or earn they have been abaucted by UFOs notmit? The proprietation is the UFO controlregroups that they are the respirate protection preceive are publicity touch preceive and such they are publicity touch and the same the they are publicity the construction of the they are publicity the construction of the control that same the the construction of the the

Are generated to Ted Brokeher Budd Hepkins, and clinical psychologist Aphnodite Clamar: three New York researchers who have been studying remotes or UVED abili-



UFO UPDATE

ouccape to ceveral years in this instance the thic abused hine purported abductees including a James instructor a college teacher an audio techn cran and other responsible craners from vario as welks of life.

Reserving the if these indextalls were methods by avbod her problems would allow up on standard psychological tools the research learn, sent the subjects to independent cancel psychologist LasSetter. Safer was not polted the psocial starward were LPO close inductors wothers. Not out any of the subjects must live scent during the battery of loss.

Insteller tests, Same todon reported revealed in diversi aphtological feature unit right was backet. But where do proce for instreak was the psychological evidence that her subacts had undergone some sort of trauma. These people second destautur, even parahold when it come to procordinationships, Same race somewhat like votins of tage More told high the subjects of semend to be off all apouters. and the treatment into the state of the s

The engine Thereine departupe my accession for them have accessing entitled operation According to phyministic test and the engineering of the engineering of the control of and commence of the engineering of the engineering of the Commensus and the protocol engineering of the engineering of the Commensus and the protocol engineering of the Commensus and the engineering of the the engineering of the Commensus and the engineering of the engineer

she added. The less findings are not in consistent with the possibility that the reported abductions have in fact, actually occurred.

Clamps later asked another New Tork psychologist to revew Sater swork and to study five of the subjects anew. The econd psychologist who welfies to remain anonymous sup ported Sater a vew.

edul Dioversitation dant beiver that the fund is study proves are real events. As transmer J. Allen Hy nek, of the Center for UFO Studies says. At we can inter it that a set of nominal people.



secondary matterns

Once upon a time invest were millione of insummise Meas were instructive proserved by and climatus and warm setuh. Others were setup topical or duponal million who have a submanual passar alter in-topical in intropy table tombs. But today with new alter the second site submation and and alter topical propess human leas are becoming increasingly area.

According to University backferophogot George backferophogot George reported and the Carlos marrines have been ground and have been ground oppose Bought and marring wapping calab care faulted and have wards in the early wapping calab care faulted in Educated And even as early 400 s apound of marring and an early 400 s an execution of nurtiny wet To's an execution for hummy wet to be on nurting in these in the

Soil other mummes were tost when Egyptien reinolids as come

adding the indeficient explations of the test of tes

Efforts are currently uncarr way to protect mutimus through legistation and through a mummy computer registry at the University of Matchetes, in England Deeto mon and workfah skys Ameliagos 100 tel skys Ameliagos 100 tel

Gross are barely aware of their own plights much less capable of infiding ham on offers "

Martin Province



Cryptuscology the subly of and severth for uncloseeved wrimals like Bigfoot and the Loch Ness Monster is

орнител In this press/goods, seaming, pource Maxime, 10ing Breach mappional records, ownards dia address to the technologic works as obtained and the technologic with a social Addition of paraphomenany to expediation in environing parabits (invas-address opugapadi with a contracta indicate one caps shows a species programmaly for idmaining in place at protection in enteretty. In enteretty.

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AUTI+MATTER



of the second second second second

To Dr. James R. Allen, of the Minnepolis China of Nounology: The woman is compliant wide busines. She was hauned by what second to be a phantom tadio attagent in her wars. The facto attagent in her wars. The facto attagent in her wars. The facto attagent of her her and her makes and Fordes at day long and abated only when other noise washeed

Invertigating the case. After fresconstructure twoans neighbors to make suit har equiptions to make suit seamned her hearing wids to make suit they were not poking up a local station. Her ten noee and threat special stricting pot nom, and sue enough the make text obtains.

After Alter pontimmed truit the was in good mental shape and had normal brain potterns, the discoveries what he new leads was the catalyst for the unusual main catalyst for the unusual main lead apprin. A rheamatoid withing tablets a day about no tablets a day.

sid, says Allen 16 stored

In the studiety centre of the temporal loss of the board What I think may have high period is that the combination of the heaving poblem and the approximation of the high period poblem and the approximation of the high period poblem and up the musical memories calculated them to come into company and sets.

Continuation came when Alien suggested she cut her appriminitate in half Within a few days the musiwas gone

Since publishing his findings in The Kee England Journal of Mactional Allen has received calls and latters reporting similar cales from arbund the Linited Space to cannot aller with the fleering problem with medication marks tenses of accord

Also admiss the oddly of the discovery but has a may be of value. Most of the plotpin who have contacted minimized by were arrely going cavy, and their doctars had no explanation. And Alien actor future taskarth rits the pteromefort may adding forward us with a replacement to tools a major underna.

We may be able to replace phonograph records by issening to them when we are small the says. And then when we want to tune in we'll use take access

HICK OWNER

"Most wrong on act is by people who are not artists, flua, all the misconceptions." —Eucone Delacrow

The whole is a maximum ferous stored without hind fast automasses.

On Coccorr 4, 1966 a leafty four year can numer can subdry numer and numer Ann Philips with budgetored to death in the Das Park 19 ross apportment. Berthed polios urgets away reachine reader how silly it might leafth And neoponang to Pri death And neoponang to Pri death. Sill death student is control sill death student is control a black student is deaths and anne 3 dia deaths

House and be adverter in French The Net and Care and a participation of the Care and a participation of the Care and a the Care Net and the Care most of the Care and the Care and the Care most of the Care and the Care and the Care most of the Care and the Care and the Care most of the Care and the Care and the Care most of the Care and the Care and the Care and the Care most of the Care and th

Police were stufned Details in the dream they slid, could have been proy only to the munderer human Phillips had been killed



with a heavy object proceeds/ a treation A subject proceeds/ too a yogo temple. This is too add with the Togers. too add with the Togers active of each And socioles active of each And active the Oak Pane packet social the one want by the main in his stream. Beaco on these functs Lineads to show and And in 1982 the was convicued of instreet and commond

The ocur has notently wasked Linkson on bond And over though productases take appreciate the new linksons with Loss precises had the registrate will be more to an end of the horse take to grawing income that the there must be a like of both. We ve always income that the tothe will we precise part of drill income when its Link will area.

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AUTI®MATTER

CHEMICAL ESP

(A) pile maj mäximis yvai upphen? No cine haal deer come upp with third answer to the partney-choicegal? It conger out perhaps such a discovery stall noo far inney the candidea is hummel no pipphenialis chug poosaido fum the Banstmogram vines of the Amiliana and weeky atmest to LBD.

According to Britting paikapprochesity Start an Enryther Carly and the second start and the Carly and the second start and the Carly and the second start and the second start and spherecent of the present grant And the second start and spherecent optime and the second start and the second start and spherecent grant as the second of sphere and the second of spherecent and the second start and the second second second start and the second second

All these factors seen to point to the private gland being in some way connection with pay, the says "possibly as an organ that stimulates a pri-conductive date of conscolates. Although its precise function is not often What is close though is that the press gland is dishas the press gland is dis-

The Brissh rosestothir baleves that parapsychologists shuld variat sering people for ESP after giving memhamatina stall an oxpormental chug. If this research pensiout, then expendiants with ancient procedures for covering the private grand could proceed.

what is needed is expermental ventcation of anthropological evidence she concludes

But psychophetmicacie (i Roard Segie of the UCLA Neuropsychotoc Institute gase truty - Ramatine may faue nature operating psychotage nature operating psychologies nature dage that i see indhing incluse allocaties and the single and incluse allocaties and the hole so called psychol. experimensa are any home, the most share half up readows.

/ arn a copularing vegethible Dake the carries together e a suck and their passion is is great as mine."

POCOLE FROM BEYOND

Propyper lossed Council of Loss John May land thought in would be note to photogradh mengin berg in ung and Lilian Hook in that backyad. But he angelinetas would show what appears to be the mengin of they poople, which had deed a weak balters the peoplers web balter in Saloumber 1984.

Looking at the Hosted pictures (one is shown at right) Council wills putzled by the odd figure and showed kito the Hostes Lifer Host datafied the poodle, Council says and "the neerly hypervectized what she becographed the head. Upon learn inspection with a mappinying glass. Downell adds her found may more cogs alignedant mig a number of breeds all the base of the mash call And he is convinced that the a strying to tall us that animals have an athentide. Ico

mages sponteneously appeening on tim he adds but this is the best live ever seen. The more you enlarge the pholographs the clearer the dog head becomes

But Charles Reynolds mouthing packue addre for hypube Principareoly and mouth on to-cold Briefford magnetic of the Briefford magnetic address and Briefford magnetic Briefford Briefford magnetic Briefford Briefford magnetic Briefford Briefford material Briefford Briefford material Briefford material Briefford material Briefford address and Briefford absolute State absolute State Briefford Briefford absolute State Briefford Brieffo

For wan hook nonsthelast the evidence is there That's my boy, other sigs of the mage in this phoos Yis anad to come back to the view before the deal. His read is hard time going. These hings do happen, you know ... Nancy calls





putter way the resson for the biblical book scaleless tist. In China the toxicity of the feh e.c.) And the Pantoan Keng Mu (A.p. 1596). yous reks by 1296 the lish had become

Indeed, loday the Eastern passion for pullies a something of an installulat excetaken from a kette containing tono iwars sens and reastnes Lowers of chit are p-

The Japanese prefer and pey premium euchorise. As in the case of so many stimu-In bloed by law partain chefs prepare a roezealous cleants. The orsen is boiled and own cooking it was such a dish that caused those who in the workin of one furth one-

Following is a specific description lifetime

ON RELCCOM

No doubt, mildor, you have had your wy in one form or another for a long long time. And you may how been appe hand and combiting hope on he journey toward self-cognition. But is it really yours alone to hold out the

Time has come when we stud montole downs with the way thank really see Remember Copernicia and Califeo -

We must seek and come to a padament on the alterate question of the ademacy, or reademacy of churcal

for the Authenance of Audamental phylosophical thought and utown standed to we's and deline come reason, the salonal principle and ultimate perspective in the universe



HE HAS INNER VISION



he Ancients called it COSMIC CONSCIOUSNESS

There are no physical hmitations to inner vision - the paychic faculties of man know no your command Within the of your mind an dormant powers which can bring about a

The Rosserntians (not a religion) are an age old brother hood of learning For conjuries of their being. This is an age of daring adverture ... but the

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Parroque and Merennet Marine Atimals of the World, by B W Halstead! of the effects types of symptoms in puller pasaning vary creatly depending on the person and the smount of poison ingreged. However, symptoms of malazae patter dizzmess, paresthe 1 san1 dranks The phristheses which the king sensation, may subsequently involve the transmit and toes, that soread to other portions of the extremities and gradually deing https://www.ing.com/use.sweeping.extemperatures decreased blood pressure and a most week guile usually appear early ring, clamba, and epigustric pain are sprretmes present. Apparently the public are the even become load and the proview and distrists becomes very pronounced and

the loss retreating and body became in tensely coanois: Muscular twitching becomes procressively worse and finally lerto become paralyzed are usually the throat and larmer, resulting in complete aphages fices of the shifty to speck. The musches of the extremities become catalyzed and the patient is unable to move. As this and as proaches the easy of the victim Decome plassy The vichm may become comatose but in most cases retains consciousness.

Not only did the individual symptoms of combination and tatrodotoscation sound courts of the lwing clead. A Japanese pedand suffered all the classic symptoms of putter pospring. The physicians gave up he had eaten the posonous lood he walked rockes and within an hour were taken to the hospital The falter entered "clear conservicess' unit he dert, his one suffered complete immobility for about two hours but recovered naturally writing incoment

most eene characteristics of puffer poisonnet Tetrochicoan induces a state of probetween its and cleath is not at all certain. press the significance of this in terms of the zombre invisitioation. It became quite clear 32 OMN

obvision state that might actually allow an indeed in Japan it had already hap-

prived in one insence, a man who ded itsm later as his body lay in a morave. He claimed to have recalled the entre modert As recently as July 1983 a Japanese man posoned by fucu rewent after being nailed into a colfri in fact such no dants provaned for tait les alonceade his coffin for three clave

The implications were extraordinary Here was a material basis for the entern matcher known towns fully capable of pharmacnico really maximum state of appearent death. That particular symptoms of tetrodotoan newspthe poech. If this did not prove that he had

6Halt is the place to discover how much can be done with Mile Tires are turned into shoes, tin cans into tromboons, mud and thetch into invelv: elegant cottages ?

hear a proble if did at least substantiate his case. And there was one mare especially hauning last Every religitor ponted to the socus Total's panelized he may have been

would have to see what the powder could ple to a colleague of Nathan Kines and within a week had an answer injected into rats in donaces of 5 millioname per 100 crame of tonic state Within 30 minutes the ratis law mi to correct stimulation pain, and sound For sx is not hours after admissibility here appeared comatose and showed no rosconso to external stimuli. The EEG lelecciritial nervous system activity, and though with no apparent sign of inputy. The same procedure applied to mesus monkeys pro-

These proimmany lab results should have delicitied me They devicestrated experipowder did contan pharmacologically sotwo compounds that acted very ready to lower the metabolic rate of the victim 'fet." was more deeply perpieved than ever Betion these sesuits the entre robot of acrebies had remained strutty an ideal a cutcarly an abstraction I went to Hart perhaps because of it. I had never actuals pained to consider whether zombes truly exceted it waan't that I dich't believe, and it wasn't that I did I just hear? peesed judg ment The formula of the porson the corre Narosse and now the preliminary but concrete inhocatory results charload every thing Now I had to face just how little understood about a phenomenon that aud

and elusive articlote I was in one sense mesons the part antraly Although formula the same thing occurred in Japan but us tiou preparations were not combasi their

Any psychoactive drug has within it a completely ambristent potential Pharmacoincidenty it induces a condition, two their condition is more raw material to be worked the "set and sector" of any drup (poer) what the drup will do to him: setting is the case, social-in which the drug is taken

For example in the northwest rain forests of Genoratives are a sumber of native spedes of ballimacourse michagons. Those who ap out into the forest dolberately intending to most there method the other dly experience a pleasant increasion. Those who madvertently consume them while forariso for edible muchtooms monably and The mustroom itself has not changed

The did not success that the contain poson might be pilly a plazaard halkorrogen But like the mushroom, its potential was laclearth might, upon recovery, rationalize her canoniance within the expectations of his so cety Without doubt in the phantaamaciono cultural landscape of Hath, Narosse had his iterally nto and out of the grave DO

from The Serpent and the Rainbow by Wede Dave Conversely # 1986 by Wade Devis Re-



four out of two patients, healthy colls showed the gravalisal ganado weakness at the priose points where chromoteomis in the cancerous cells had autually broken epart. Yona has ance ancovered a similar relationship is wellt will of their extreme

Manus Sectional for clashing traple salas a to abject the chronocons in calls to chemical resea, he firm loave all the percertage of calls whose chromosomes deviales that makes the chromosomes detage, only appendix chromosome site. But compen in as makes will all by cost of a chromosopen in as make using by the but compation may make a specific of calls of calls. In have cases, firms believes, the pation may must help children.

A lot mere chical cala are received to been out ha hunch. So 'Unis entodring on a three-year chical study of healty pacelia red cancer patients. If the correlation be hyden cancer and 'tragle sites holds up is simple blood test that reveals a prickapatition to the classace ocub become evelotie

As in his other discoveres good lab played spectim the univiting of high lates. Yursis innal achineses for detecting three masonal weaknesses was to critical black ords in a medium deficiant in falls lack—an essential ingrodient needed in the memototag of three fore of the chemical building blocks of DNA). In the challenging anworment, chromaumas broke clow if ther unalisest posts. But the method revealed only about 16 tagle stee, usually of this severest type, which earlier associations had found to be inherited in central namine-

Then late intervent in the born of a forturate matter. A participational student in our labitud donated blood for our study, and the chromesome came back like that. "Nume mays showing a pholograph under my eyes. It looks as if someone had dropped a hand creacede in the match of a unale ptil.

"Thachavar sam arything like this, "Yune anys "I thought, Oh my God, Iha poor women to going to de or clander" But then calenaed down. As a accordiat you contri get oversouted by these hings "Your attructs is to at boes and analysis will all appointed...to ate to instance if you did comething dif forent then used.

An investigation revealed that there had been a stopp in normal libbrationy procedues. After depriving the blood calls of labor acid a techniciaen had acidised cofficient to the calcular, minibility of for a second batch of onlis in another supermeri

Today them has made califore part in his standard test for hogie setes --adding the to botch of cells reveals more sublic divonicsemel weaknesses in cells than depriving them of halo cal above does. Contex and test darliers, however wil be mainted to learn they califore by failed clost not appear to damage chromesomes insetted in inhibite.



DNA report mechanisms, thereby exagateating whetever term the follo-acid defcentry has induced

If the table loss up to Youns in executions could may investigation of the problem to be the winning models in the problem to be the simular models. If the problem to be the simular models were appreciated on the the workplace. Name of the total could provide the simular total of the prolamation of the simular total of the proparation of the simular total of the simular prome in the simular total of the simular total of the simular total of the simular prome in the simular total of t

Prevention might also also the form of more impart medical to because to detect ourone at the entitiest parable single, which the mission of the entitiest parable single, which the mission of the entitiest parable single and the west to the end consuming laya amount of an elegate the field for the role variable might paper perception to the single amount of paper perception to a single amount of paper perception to a single at the single paper perception of a constraint of the paper perception of a constraint of the single paper perception of the single paper of the single paper perception of the single paper.

But however only three pacelein-tobactory time with with-how that there has daily analyzed before and three the test of the second second second second the contractors. There was recording to the contractors that was not occed by about 55 paceles and the charmone backage rate at hagie able was not occed by about 55 paceles and the charmone backage rate at hagies able was not occed by about 55 paceles and the charmone backage rate that a second the second second second second the second second second second second second the second second

Begine Yurilia finanza some mentees of the macioal potessore nerver helpholi of just how werk! He dreavery of the ochrectan tailware and rear and flag to the will prove to be "Laboratory technologies for elitic tagle age tails may usage of before all programs and and main years of the transition to strategie not administry encontrend made the bodgi age Marsino Strational of Mary lands integrates age Marsino Strational of Mary lands integrates age mainter the transition time base) many technologies and the transition times base) melocitati tail

Already these has been considerable progress based the goal is recently users made trateeline science and the discovery discretize conception — or concern conserg genes— onhumen chromosome Becaule al hume raile carry treas seaso of destruction melacular bologash have been attack on their melacular bologash have been attack on spain calls and apare of the Yune believes the income which melace concepting attacks on their tracket at level as of coowners to highle base. Timay betted when discretizenes break or rearrange themselves in the vicinity of lasnocogene. Yuna assa, "gehietic control mechanisms break down, caturing in dhorwas hammess gene to expensa shall insproprietely. The cell begins to clucic out do centrol and cancer sither result."

By economous human hughs when them the has accarded in skertfyrth who role oncogares Progress in tracking down three roles, caterts beneficiations will evolve roles and the beneficiation of the roles of the prostation of the category. In a test we rough the activity in a test we rough the activity in a test we role at the damperous sele effected surgery relations of laws chard.

Like many control people how without have a motifued of properties under without an additional of properties and without the second second second additional second second second for claverage of Minnessettis Chromosome addering from congered defects mentile address from congered defects mentile period, incurpt hala padicticad than his the second second second second second second second second second the data second se

For years, the outper of samy electromafeer-here the outper children is betterered establishes and the service of the electronic of the service of the method diagnode powers however it was come of her registry bas sambled. Toucy for hom a cure, the dentification of a genetic product and the service of the service of gradingtime service our source patients. Income undergrang unecessary—and grading orders here also also also also also also grees here also also also also also also the site of all als diffusibles in sphere in the set of all diffusibles in sphere.

says func. holding up a photograph of a five year-obj with sightly odd facal factors and sized sature. The parents wondered if have was something wong with the softway brought have to the clane. Than Stand a timp part of a band missing at the end other secoid chromosome.

Yuma often sees patients with fertility options for outside thirthythereadd man popyt consultation tractures the other compage. Yuma discovered that behave an orrea often manis chromosomether behave down I sasaed of trying again. The couple down I sasaed of trying again, the couple open hard all discovered that the couple open hard all discovered that the couple open hard all discovered that the couple printicity or multiple tructure gain allower that work are ward.

Not all overnecemb defects cause a problem. As to consider to be the most in a make what he considers to be the most in a care of what may be an extension of doce. In address the physical effects happend advantation the physical effects happend advantation that much as 80 protect of an hereotany material consists of regelitive concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernes that can be to of each ulfield with the concernest that the top each ulfield with the top of the top each ulfield with the top of the top each ulfield with the top of each ulfield with the top of the top of the top of each ulfield with the top of the top of the top of each ulfield with the top of the top of the top of each ulfield with the top of the top of the top of each ulfield with the top of the top of

Densional Dearlis synchrone place element astronogation, which is personnellates enter sogners is mostly dank bandot indexed an regis tark bandot her blocked in regis adapter to inspiry white blocked here exercise a segment to hargely white blocked here exercise a segment band bandot as a segment to hargely white blocked and our provide set of the meet that model of our characterise in the white bandot of our characterise in the white bandot of our characterise in the white bandot of our characterise in the meet that model our for the set of th

"The only reacon I had the serve to proproper throadcal hear years because invoas the about genetics at the time, "Yans and gote mines and had ho doal that leads be claiming haad on with the whole dogma of bology in fact, one control is hough inty indexe wire to proceeding hough inty indexe wire to proceeding hough inty indexe.

 If the correlation between cancer and fragile stes holds up, a simple blood test that reveals a predisposition to the disease could become available.

ratory 'Go back to the wards,' he told mit' (in an ronic footnote to the history of soerce, his debunker was recently awarded a prize for the discovery of nongenic DNA in chromogrne dark bands.)

Despite the least have enhanced the base and over signing the maked have been based and other bases of the base of marked and other bases of the bases of marked. The market is the light-based of markets. The market is the light-based of markets. The market is the light-based of markets and the significant of the satisfying meet. Soon have begins satelying and Based bases on the stremmone and the based based one of the stremmone and the stremm market bases and base the interm market bases and bases on the stremmone and the stremmone and the stremmone the interm market bases and bases on the stremmone the interm market bases and the interm the interm market bases and the interm the interm

For over a decade many evenes in ther the most of pegnancy-have undergone a product evene as amnocrisis in which feat certain an encourse to mith works annotic fluid as depicted or chromosome analysis. Today amnocrisiss is isotrally used to bagyose Dowis agridome and a handtal of other genetic offects. With Yingiy empraved banding schedulars

even it is now possible to detect many more of these disorders in early pregnancy.

The boat in resultan power is its dismate as proping from low to high magnification or a microscope. This no lenger a question of whether the child will be boin seeming hardcapped. This says "When you can soo incredibly minute genetic impeticitions in the developed Quick the line between what is defined as normel and do normel statistic blur."

A fittus majerg is try subtand on othomateria file to control will be row in file tree permature gaying of the text. "People with the detect auality op siny in their last born and twentist, "Varia says Should be other charmacemethebermising allungther patients by the abornation of the patients of the abornation of automation of the abornation of automation of the abornation of housing and in traven as callory syndhron. The housing the patients of the material wall abornation of that wall abornation of the subtance of the material wall abornation of the text wall abornation of the subtance of the material abornation of the subtance of the material abornation of the subtance of the material abornation of the material ma

You has heaved to proper timy perietic times that understanding metal along normalities as extra timpers or fees, on a musthat tails to open properly, mosting kreacope, cancer of the eye short sockers, and 10 a shar are low but off within the normal trange. Psrodecelly, however, with his in creased peedchik power has comp increased peedchik power has comp increased peedchik.

That all charanoome official are reliated to appetitic alivners that are reliated to appetitic alivners that are consistent to a set of the set of the set of the set of that the right be a classified a class point be it might be a classified a class point of the set of the set of the set of the beat with the set of the set of the set appendix of the set of the set of the point methic of the conflict.

In addition, a chemoseneel delect can sometimes be carcolled by the mitigating effect of class gands. More with an exitar chemosame may band bobe tail and meen? says frans. You that correlation may prove true mony way thing participation may prove the mony way that the correlation may prove genes on other chemosamis, an exity at careful be very a set of the commonly the them the very work as a card to commonly the them the set of the common the common the set of the very set of the common the them the set of the very set of the set of the set of the very set of the se

All these limitations to science is proprioto powers make Yuna lating of how the publo might apply the included of Will patents want to abort every totus that above even he inner detact? In a site, "And in or what will they area the line? At mental retardation or blue every?

Arweid, his word lazes have been confined it & adjuston from Oniva recertly came to waiting. The approximate sight They and to waiting here any the samptoand band taching to be pendial deprose because the Oniverse powermant in an adtection part of the samptotion to part of the samptotion of the sampton and the sampton in a contrain expendence for a wait for an experimental sampton and the table to the samptification and the sampton and the sampton

Yuns returns to take part. His paper descriping the technique was kept looked up in a tile drawer during the Chinese deloga long wat. Like the leagnoury Dutch boy who held back floodwaters by plugging his thumb in a hole in a click Tunic is single-handholdy trying to block yet andher overweikning force—the unregulated use of such technology. These no intention of publishing that beging the syste point-blank.

Yurars interval in chicroscores astends bayerd gavate detects....se a soldrive to his other studies, the has began to investigate their role in wollaton. He has assimiled dilatent mambers of the prostel stamly to desomme how microscopic chicroscoreil changes eventually were translated mic sapace chicrosco

Evolution his investigation shows, is a far more consist watking process than ever magneed. A more specified or growing the stappiner by all that debrguates are from appoint, with our spitulable training usage, much, and methanatos—tom our operating the great applie. Albough mer and charganage banched of at least 5 million years ago, fund her found that 90 percent of our greate much that all 90 percent of our greate much that

Single sensering in galaxies and account for great holding and officerroom, the stage. The instance they matterns in a law ingulation gets may have had a disinable imposit of premain workshop by increasing generation trans in the worth in simple www.yapocies student a long galation oncreates with larger bean capacity and greater life spare. He respective also suppress that manness

His research also suggets maintenanise. DNA may have played a key tole in evolution by creating breading barrens between two clopely related spectra. Buckupa this excres hendbary baggage is of kito survey value, it is not withenable to natural aslactions, rigorous pressures and can therafore evolve much more quickly than the genecoding purifors of our chromosomes.

Therefore of the same back boots of pergenphical sequences to one encode time, "from points are," thermonerated DAA with charge neuroff—at that are a goological time scale, So whan the solided armost set later survivor, their chartmannia will no longer backs to pair proportive which they to longer the start to pair or proportive which they to longer backs to pair or proportive which they to reade a size back or proportive and and readers where backs and and work "

By comparing the chromosomic of most, chimpersae, gonila, and orangulon. Yunit has adempted to incontinue the coulde of evolution. "Itou work backwards," he emplans a "tou look to see what orthomosomic dranges occumed, how, and in what older. As it turns out, there is only one solution to the puzzle".

According lots calculations orang Jatas week the lint bid design from the hotedskipy less, leaving a horins? that gave nee to the gont la and a horins? that gave nee to the later theorem, all on its own uncon point and a ching live appears to have undergave many banktion balanche redam spooles energied. By comparison, the human live acens to have changed very Kite wher the banching point. This excell ming?, "Usus says," that the human-ching: prografue mage coasive recembed as "

Encrypted by the turnin-chino arces-



are there that others up a thap to the keep charmonance comparation. The nume implicit help power a problem. There is a society of ap between 4 million and there is a society of gap between 4 million and the relative to page — there good harms when the relative to balanced to have named there in the study of molecular evolution image and a society and a society of the society of the society of the society provided in the form of the rest of the society provided in the form of the rest of

With release that can the genut from ancer to excluder, Yuris has 195 hims to reflection all the senting-time of all of his discoverine. Some citation sits call multiplom timetabling. Yuris styp: 3 mol sits. How can you sty work the deconsiderable is sit ? Don't ask mol i say. I'm a scientist—not sphileopher. I regord only the latta."

But which it contraits to his genetic foredualing Virus behavior is concerned about how society will interpret his throkops will receive the second second second second works and the field of generative with a which Yuhas can soarcely propose with all the compressing of bothmeditane which Yuhas can soarcely propose with all the compressing second second payments and by his genotic propheness above recold take an instruction of issuit heart excluding there is sold through

How, for example, do parents ded with the mismadon that her child's learning diability or aggressive lender data stay be related to a genetic abnormality which they read the network?

Tests for cancer and spottoms poor epincawity allogations. Paythree our diagraphic bibly is outpoorny our careful to treat when any ol conditions. Each and good one is to be full streament that thes suppoff the is senae disease that can make be palavated and curred? One mgth avent ago dance is to be full streament that thes suppoff the is senae disease that can when be palavated and curred? One mgth avent ago that you were doing that isolated in the table that pool of it course (gening) haven about the spott of the course (gening) haven change to the spott the spott of the outpool to the spott of spott of the spott of

In this end, this loggest cuestions will pickablyhave to be received by individuals each weighing all the lackabl base of the second despite to underskip that wentive afters. Yuriss work clearly offers alternaus programs for offers the benefits of active watering may be clisic by the latter of knowing too much too scon.

My own chance to peer into the void of the future came at the end of my void to the lab, when Yanis requested the customery blood denetion

My father died of colon cancer Wil you be able to see if Tm likely to get if?" I ask

"Feitraps, "funs says." There's a trap is see often involved when that type of cancer is heriditary."

"But colon cancer cen't be easily diagnosed or oured, can #?" I ask

Yumis shakasi ha Noko

"Thenks I tell him "but no thenks" DO

TREASURE HUNT

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Monegram, 8295 South La Genega Bouleward, Inglewood, CA 90301 (213) 215-0329

NAD (USA) Inc., 675 Canton Street Norwood, MA 02062 (617) 769-7050

Nikon, Inc., 623 Stowart Avenue, Gerden Otiv NY 11530, (316) 222-0200

Onon Pictures Publicity, 1875 Century Park East, Los Angeles, CA 90067

Pan American World Airways, 200 Park Avenue, New York, NY 10166

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WindjummerBaratoot Cruises, Box 120 Mann Boach, FL 30119-0120 1-808-327-2800CC



MAN

"Now you have mut mo Can you larget me? / offer you a chance."

We teer tangular we magnothem to be, and emerging from sleep a dress can twet reactly the lisnow, built funise/hommy bed, freek on my cathes and thundered down after the guitar player or the startcase

He had already reached the street before for syntee the final landing. I raced through the inent door and found an empty horoughtare But shi his voice was echang, somewhere in that derives

The the man who wasn't them.

From which directore was it coming? The holisensai of right can lead our exits retray. I chose and isolawed where I throught the song was coming from But soon enough. I restered the singler had disappeared T was above on the street.

When retirmed to which a live of the only regiber's door Like mine shad no look and skung easily open I onlined but the room was empty and upon noting of the landady I learned that my neghter had checked out. That who was he? Lakad

"I'm sue I don't know in places such as have people come and go Thats the way bey wart 6, and 17

I intrined to my foor and entered the singly com the software look must fill use shadpy with only a cd and a faw boken point of function. A storeg boken strength point of the software how more software versions had all how smoking on the object of the cd, starting at the floor, considering there lear? how many? They ware all the man who want if an

I saw a naircad timetable stuck in the cubion of a chier I snapped if up, found one of the departures marked and in very lifetime was at the stroom "A toket, pixes."

To wherever is marked on this " I slid the simeliable across the troket window

"In there 'I was hurled into a cel, where damp embrace had long awated me. My onne had been a small inflaction of imporsable rules, but he wandorer hes no defense and none to wasch for hem.

I deel in the call whoul light or hope und one inglic I hand tapping in the well. The code was a simple one, and it kell has to a tamet being liakanota in the floor. I predite a digging, backed and the floor. I predte digging, backed more than the simple table is could in the without the table of madea werging, backed more every right. The tameta's ong been here. The wingsmod is now. Wile with read to comit up a color

Lacetached at the soft earth with my spoon Whe had it dug out before us? The pessage was their with cobwebs, a black laposity, possibly certains old And yet I know who is was whold come the way. Tak he hand-

work. One morning the joker had come to look for tem-and held been the man who waar't there

Months of tunneling then we emerged, like deadmen hom a grave. We were on the hills beyond the prison and the tate were scove us We stood there covered in duit and knok then popings in "Which war?" Lasked

Bitter was assured? If the total of and put can be hand to the heat hand assured assured as a backgoing of an assured assured as a second pose, and a converses there has was pose, and i was seen the airter to make hand assured having allow of an to one. I suid to second the verse of and with the angle it have a converse to make with the second and assured them. But fill be a sourced assured them assured fill be

I crossed the border to another country By bequering a certain quarter of the borcler town I was introduced to one who created new identifies for people. "What would you like to be? A bitler surgoon?"

"Something simple please"

"Here you go then-this obcument shows you have worked as headwater of a number of line restaurants"

"And where are these restaurants?"

"When? Why number of course but who will question such a notione as the? Notice the detail-maniparti names, date hypo of memo-is all black May well—" He medy a liste package of my paper and handled them beet tome. The new you. The kid one has liste in the part is a course in the schild them be preside comfact. Gott you agree?"

I want to work in the seturuar it take undente aram General Dariar M y fortuna incressed. I bacaire a wel-known figure m reasourar access, which eas is kings and queens, as crown princes and princesses, and as standard principles of which leas are A docade passed uting which leas rewards with many glas. I had deger access and with many glas. I had deger access and with many glas. I had deger access and with many glas.

These step interested a ratio from a genetic merror measurement and low ration 1 of our financial counting of the ration 1 of our ratio and the rational of our ration of and base. If the rational of our ration rational counting of the rational of the ration hand reasoned total reaction. If the ration reaction reaction of the rational of the ration reaction of the rational of the rational of rational respect of the rational of the ration reaction of the rational of the rational of the rational respect of the rational of the ration relation of the rational of the rational of the rational respect in the rational subject in a difference of the rational of the rational of the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in the rational subject in the rational respect in the rational subject in th And who are you holding it lot Gerand?" asked awomen postedinauthyst. Somaone wrsy mopartini, j strauld say. And the gave me a consepratoral glance, which 1 anovered with my polits late positive made list my head wata spanning, the models were angreg. Presently the menager ritew me aode, nodding descently lots and the table Whowill be dring these Gerand?"

Ho is already dring, I said. He is leasting, in fact.

"But I don't understand, we have other quests waiting "

I game at the table line had returned for me My lealings in turned. Jacobsect the rotaturent and once again bolk to the madcarying sill my axings with miss. I leas now able to stay in the best hotels and was anowed everywhere as a main with flat bit geneone. But I was not which for a slag of overhy years them had for gotten my path? We inspit that aut a spati comes over its and was forced.

I set at the table of a calk in a mountain where. This surviva indirection brighty on the patible of table(p). I started is it and neirad-the greatest mystary is hast bable and comentees, and issent if table the surl Interestatud I devisited adjuncts tomic Of course the sun was shring, of course it could be seen. After all its the sun

But we stand on a dark ball of stone looking at a bright ball of time. Impose biy stonger I oned "How date we implant"

I was reked, gently if I was all right: Did I was medical assistance? A cold dark? Perhaps an ice pack on the head?

Were let in the value ac don't low where we are 'l postand, of the dwy, the earth, the'd to explain to the mountain villagent that we are load generation after generation, in the unequantization The sun I see the sun, don't you see? There it of An immensity of power heatth i lower as "

And its a lovely day sir yes, please try to calmyoursell That's right the sun is shring and with all as clad of it as you are

Fools I multiered "Hopekess fools I I staggared from the calk, drank with sunlight (fail) in the pitol my stomach as if fo availowed its rays

A boy pecked by on his bike and i warred to soop him, for I feit that he would understand what he others could not. "Noung main, come here: Listen to mal! It leach you the motiones of the sure?"

He looked at me in teer and packaled off in a hury. And those at the cate gazed at me augoously insisted my error at more and with the specter of priori balaxie me again, Lapologized to the water at the other The has?. I said "Dr a touch of lever per haps from the danking water. Forgiver me.

Of course or I understand. But I saw him turn loward the officers at the cable and make a signal with his inger to his head, an he whispered. "Not all these-

It's true. I seed to myself as I walked on Imnocalithane Im the man who is not there are Own I baveled farther from the heurite of ordarary people I wendwind up into the waldress of the mountain peokle. I solv them to 1 thought, high above me, a solvery dimtwir who turned and looked down toward me, ben variabled into the mint.

I was given a pece of crystal by a placteriore of magic and table said-thin eloom insught within the glazey plans and poole of the object. I saw a traymal, wandering in that craggy deviation. His wander of the iny value where i could not follow

Insurfect with a linte called the Veikid Man of the Desert, who told me that they know the one that I sought, that he was or angel

The the King of Thevas, this one the Man Who last There No trace of him is even bund in flore places that he role."

And have you met him?

An ro, ho is much too dever for that What need has he of us? But let me kill you—ho could be any of those we see each day and we would never know. He could be me, my hered. He could be me, any hered. He could be me, any

No search each mann or over som to mal leda a leder if is to market la sia as gl. Yop will hed these notas bot you each ind ma. Is valent i abandon them nell be army sandhing into the descer myskiny of the used i will each bot an each wave refered between and each to bot nelleror molter younce landbeath the glid dight madaratal seeing eye of vasor, he will skidd me He Lib arawsy shead, ancose the eternal playing board a giffering peon, silmy sun agringest or categord.

Well, that seems like the lot, is and the wider points without as the chickatian his is of these starts bound in the room occupied by one-General Ostend mesmognetics. Apair ps. formal appearances. Hell probably be loand fiszing head coler in the core it A number of old propile go that way They clear their balance was know.

Yes "and his assistent a unior officer who'd need carefully timough the pages of the yelowing pounal contraining Ostendis beef sport. "No. I suppose so"

Helo what's tas? The serier officat poked a bit of paper out of an athrony on the window all "Some kind of ittle animal Here out if with the rest of the units"

"Heal six " said the young officer But before doing so, he unloided the little animal and jound written within & this missiage

folded inwerd into time

Come along then, said the elder o

Werve got better things to do than hang about here. The verse officer extrained where he was

In e.going door initialized which the Was have the paper ligare in this hand. He lifted his hand to the window a peculiar look in the eyes As he genered down the stretch handle the disast half. I seemed as the bit already packed his bogs and gone already actived his neme to the last of house who looke and eventh for the mounth who the handle

> Now you have met me Clin you foroit me?00

NTERVIEW

CONTINUED FIXOM PROF. 52

penera we can't distinguish the ferrates at all. We can only tell the make spath if we hear them or have recordings of ther songs. Censel How do you figure out which species the female crickets beam 15²

Other this don't the could preventing and see which ones they request regime in the begin themative ting another that the all up the tape loop and you dent lives excluding the tape loop and you dent lives excluding the tape loop and you dent lives rods but prevention in They probably there not also that you can that he field indicates are apply loop dent table. Field and the prevention and they probably there not also that you can that he field to the table table to the prevention and the table table table to the premain and the table table table table table table problem that table to the prevention and the table.

Omer Suppose you have a bunch of makes youve identified as belonging to different species because of their songs Cent you then the shuchural differences?

One they but without this congray you don't how what has the off terrors tare to be known sectors or just version within this spoces arises as a in this sound producing takes and sectors and the sound producing takes the short. The short of produces can very form produced by different spoces can very tom bala to a known of or more pro-sector di and if the program are very different from one of the short tare to the sound of the sound sector of teelment how as

Onvel it doesn't bother you that you have to all the meets?

Other Well, it closes, but if has to be close.

Oreal How do you preserve them after catching them? Other unstreaments alcohol We catry

title vois with us

Given Data yr ma gong not ber walf-Daes Somo of them like gong in because they links they in garling awy flort mo. B garling file gong the sake of the sake in the starting garling awy flort mo. B wide awgarlang yetter hoost the tile garacter al slorg the sake of his looy has been garling the sake of his looy has been garling awy sake those same garling work models in a sake has been sake and any sake those has been sake on models in a sake has been garling and the sake of the laad be levy aven models in a sake present any sake those of the sake has been garling and the sake of the laad be levy aven models in a sake present any sake and the

Only We have many technologies We wild adantimetitatik expedient immain scutted and niked taxagh vegatatom scended out burness sere up help Eluk vity we utually do is go mb a lind and inst tape-income weighting tatas anging. Then, we usually areauting paiss—to capture them we ain the have burne of the anging taxage. The taxafield is tom of it angins toward to pales where webpers consider anging it has same cross roughly where the choid al. So we area up and house his single and. Che of a



a project to start sintano posin wher here shut braten footaligs probably sound lise than cler. So every time you take a step, it cherry, they're not programmed to take off when frying appear to be passing by if the crick

Ote We have lots and lots of souished man. Some species are presently percehaving only the lower stay to represent the

Now some Hewel an tree projets will said sines we would chop down a tree hop in the crickets wouldn't fly away when the tree the tree Sometimes we would fail out out

Ontol Enformology seems to be a predome

Other I think it really is a maje field I do! think

Only, By atimate? In Africa?

Ote Oh. Alnoa isn't particularly heizerdous No by people-in the United States At most you take oover People have ours

Oble-We did in Botswana and had a temp after mainplit and were searching for a compate when about twenty five spictures machine guns. They demanded to know what the hel we were doing them and whither we had awapons We save reweapons we were calecting cackets which they dight believe. So we pulled out all can

What finally saved us was a lister payro dicithe trick it was very improving and seat



IF THE SUPREME JUDGES of lack Daniel's don't agree, the minority vote rules.

These gentlemen taste our whiskey as it comes from room-high vats of tightly packed, hard maple charcoal. And even if only one taster says the charcoal needs changing, the vat is emptied and changed. What's more, the last batch of

whiskey put through is put through again. That way, we can be sure not even a minority of our friends will ever find fault with the smoothness of Jack Daniel's charcoal mellowed whiskey.



CHARCOAL MELLOWED FOR SMOOTHNESS

ON OFFICIAL ACTIVATION BERKICE WE WERE VERY been so frightened his knees were knockon. What set cur nerves on edge was that ermen had been shot in the same area by

Othe West, Howaris a wonderful place to a st about islied mysell. Fortunately 1 ht a and only cracked a ris. Without that they

Alnos I would much tension of staving lons I've had some around and seen a imagined a rhino be-Relied by tions but you can get between a lice. and they're difficult to cause their leves don't

Onny Wastd a lot o ple out interested in

Otle: Undoubledy ha a wonderful pestini Omy Where have all

been hidring?

Ote: Rually everywhere but mostly up in the tions of source miles, encrimous groups they've susthed it Nick Jago, an Englishiontotally desiroyed instead of a forest now you

The maseum in Rid has an unballevable cause whenever they hear that a logorith Oncy is there com in enforce/cov for the

Other Collecting is a wondarful way for adstudied. What a mind-booding rush of peo way about insects as they do about birds Otle You just pop them into the pan whole thing the moves is easen There's no reason and the protein concentration of insects is

Oese How do you remember the names and

Ote I have a hard time with people's name which of the onskets I already have savar

senes of S benda m

may be a factor here where north is Per men as the funters

Its double CD player lets you play the hits and skip the misses.

Toshiba's mini stareo system offers an optional double CD plaws that lets you propriam up to 30 selections at a time. The system includes a dual cossette deck with double-metric AMFM storeo receiver automatic turn-

TOSHIBA

table, 2-way bess reflex speakers and a 5-band graphic equalizer. The Toshibe System V-11 It net only sounds areat it even taken inouests

> sport That's probably a first of the number croup People are squeemsh and mean main that are most like us

One Does your care forciness for crass

Ottac No 1m alted not in Zuklend my dad salvery cland-that tobacco-suce small five scenery probably impresses the scene on the boars for future reference.

ultimately mating behavior?

range, leap and land on the ferrale a back There's a struggle for seconds to minutes





GET LOST!

An island paratise that offers built of the second plant the chall of discovery. Stroll protone banches: Go failing for pool or seals in waters recovered for the agarnes dam paratise to bal. On Forber Magazant's Lauceae Istance, all the chooses ary recen

DUT JUST FOR A FEW

Districts lever an present the distribution of the second second second second source exp or to at the welcome well backed prior to geness. Just 200 Well backed prior to geness, Just 200 perpresent, which includes 4 days or topolo a brond geness perpresent, which includes 4 days or topolo a brond geness perpresent, which includes 4 days or topolo a brond geness perpresent, which includes 4 days or topolo a brond geness perpresent, which includes 4 days of the second second geness perpresent which includes 4 days of the second second geness perpresent second geness the second geness second geness the outprint days and the second geness of print days. New York, 2017(101)



ESPIONAGE

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Orner Why is it that some groups are that way and others go to such extraordinery lengths to attract temples?

Other to been in the face it probably gree back to chance events way in the paid. Who knows? But once traying on a certain roll they stay there

Centri Could you deecribe a law of the ways creation personal?

Che Trie Trazz common we join to high against the towns [her] kale shapitat weng on sub multipatit (popter I intolfand Ana these on graningser his toka at if has been rinked. The wide about manabilitation and the shapitation of the manabilitation and the shapitation of the manabilitation and the shapitation of the his induced patient hole and proclop his induced hards subble as sub-rel of weng patient back under the subble of the similar patient back under the subble of the similar entry. Shapit Reduced and proclop the subble traffs subble to sub-rel of the similar patient back under the subble of the similar entry.

These a kind dish faced gestroper that takes body at minute and a life lis in heavy his winds song and dishes like the swarps that of the termise rows. This registra warps that of the termise rows. This registra backing back and of the termise rows. This registra backing back and of the termise rows. This registra backing back and of the termise rows. This registra backing back and of the termiser rows. The depart failed back as a point rows? If the depart the termine the widel. Bridg over termine the wards the widel. Bridg over termine the termine the vision of the termine of the termine termine the vision of the termine of the termine termine the termine termine termine.

Deers How much sociability is there among grasshoppers?

One Hoppbily very life insuch boll server went to be anound reached or there specess the don't event to be out from singhty base to be don't even to be out from singhty and the server of the spectra of the speeral of the spectra of the spectra of the spectra of a spectra of the spectra of these were historical insured spectra of these were made servery as of seen rowhere even in the made servery as the spectra of the spectra of the spectra of the spectra of the spectra made servery as the spectra of the spectra insured tile schemenical events of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of the spectra of the spectra spectra of the spectra of

Ones: At what point do grasshoppers become locusts?

One thermody hears to district to be matching to the second second second second second matching counter of the second distribution of the second sec

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invox to instanterier and they are smaller works cometimes cutrillougation of makes. They are capable of crossing all of northern Aloca and get into Arabie and even india-

The werdern Linted States used to have a similar spacies and the Great Plana would eat the plant, the saddles-abaciutally specimens available now are those an-

out, that proportions change templer lab

your pick

Gress. Why heven't we eliminated tham all

to take it, so even if most can t, the few that eration. So you very quality select for result



ance to insect order. That's why insect rocks

Dens: Do you have museum bearies hare? Otto City shuck sety Al museums do They to rust have to keep vigilant of the time. Mu saum bectles have beneficial uses. They

Ote That's noht and outselves no doubt inserts are the miler polytators without

They've screwed for textse fligs in the ched along with the Issigns Texture of demoss which lieve Getting back there is

Omer You must be gled that cricket work

Other They are my passoort. So low mercale taly on anywhere. The number of reaced

Othe That's right lifed some urgancy to work older and I detect it pertroulerly in my sen kind of information it contains. At least the meet packed up the book DC



PHENOMENA

A checker of place barry place the distance and the place barry place barry place the place barry place barry place barry place the place barry place barry place barry place the place barry place barry place and place barry place ba

Tows on the shuttle Will a vo-yo "sleep" in space?



By Scot Morris



Automat Suddon deploys (sola and obliges yo yo Hotman with megnatic markets and wheel o

"The seen you playing --excuse me. I mean neuts onboard shuths light STS-51D

Reagan's first words here, from an in-flight. press conference in April 1985, pumma conject-the free that it will be versed as David Groces and before he-scheduled workput with a Duncan Impenal sloopor 1 stration objects-commonly known as

Concerned by Carolyn Summers, Director Museum of Neural Science, the idea was to windup car-and present the results to

There is a great need to make physics. fin will bounde in space, most will say it. mant Facilianal science teaching has element ion 1 there-proving in this case-

to declow two communications satellites. cancellation and rescheduling, the project Holiman said "Write not having furn here. All

to take and test.

Paper Arplane Senstor Jake Gam (R Utah) showed that a common paper plane any plane on Earth Quiz 1, Will 1 \$y backward as well as forward? 2. Will if for an

Flaging Mouse. This try perk mouse meneri acamer most found to sook. Curr. 3

car (Battery-powered toys were fortaciden of so the adscreate develop a loop about around the inside well. In space, d was fotos opesatas Seeing if operate alowly

Gyroscope On Earth you put a sing to the report page on a lease to or on. wobbles-lectrically called procession in space, Commander Karol. Bo' Bolder showed, friction makes the whole support cage spin as well Even so the toy illustrated the hands Que 4 Did the geroscope

5 Dot it woltable (process) as it stowed down? 6. If a spirring cyroscope is awang around in incides by an attached string, how will its axis analy? (A) in a straight law with the stars (\$9 As a 90" angle both string, (5) As compare contribution with respect to the shulde.

Bip An oxforesy child's pump tao was the largeoid to you also in the owner on the hinds to the part of pointing down on the hinds to the part of the the point all, and pointing down again it appear, when Bobb hinds pointing down again all appear, when Bobb hinds pointing the shade the top cannow with the second the theold the top cannow the the second the shade the top can be again an second compared with not Tarth? (A) Faster (B) Stower, C1: Moust the alaws

No-No Antoneve David Groga chose to you of the Gamma toy in space, so the Inst Kampel to do several tacks on Earth worked of a sidewe space the your go at the worked of a sidewe space than on Farth Ose Earth you must make the your go at the worked of a sidewe space than on Farth Ose so that if can get back up the strong legiting granty. In space of doesn't have to ownowing in the force of gravely, so a can be from all must more shally and solve a live inches por second Ose 9. Will a your Sharing solve of the strong of gravely.

Wheth of Distributions will the best was wheth of Distributions spanning a phototarion of the start spanning a photodownoutly related to spanning the spanning obviously related to spanning the spanning spanning spanning, start with tappend the spanning shart spanning shart with tappend of the handba and the wheel is spanning away form sur/?

 doen't foliew a persone but has to be based directly to the lock, will or oping then caught is it indocrets at constant good. Socialm notice that the ball could be losted at wells successive speed so it will obcarriage to require constraining speed to living the participation of the the provide the index the cautering of block for indexertion. To all the the bounce surface, issues to the body, and social or cautering.

Waysee networks. These were 10 analy photo: motols: A whole scenarios public instance (10 tash is propublic local magnet) of tash is propublic local instance (10 tash is propublic local instance) who is a scenario in the scenario instance (10 tash is a scenario match were basic local and is a scenario the a container of the pole, it would be the photol within a local activities as were basic containers and the scenario and the basic containers have been denoted and the scenario and the scenario and the basic containers and the scenario and the basic containers and the scenario and the scenario and the scenario and the scenario

Birty in pools Birly worth walk downstaus, directive that it can be used lives system that it can be based lives system. To be and in the track of insure the cher and such a birth with the system is pools and the the the one of the ground in pools which the baselful competition were comprised based to competition were comprised based words of one process the table were in the process the pools were and and were in the process the table based and were in the process the table based and the table table based and the pools and based table table table based.

Jugging The was one activity that cloth regard any spicol prope. Plict Don Vallame, who can juggin three bearbage in a classifie on Earth, amply had re band all sugging some applies and carrying that were already in this ships larger He tried rewring the hut anound in bialingtairs of could peak any. Some patterns expand him to orthme two actions— a calibhard picit-basiles, timitar to upgates werd optim and skillnew which togeted does optim in nois skill. The specific does the picture of the second second second second second picture is a second second second second the met basis against a wall or to possing bases in the pigglers statisticated on opportain statist of the micholisis. Without learned to juggle that objects at once adapted the micholisis without learned to juggle that objects at once adapted the micholisis without and the time the second second second second basis the terms and second second second the skilla the construction before the skilla the construction before the skilla the construction before the second s

WHAT WOLLD YOU TAKE?

COMMONEST NOUN

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Other questions A Flank the following others in their hequency of use obtain, Abus prever, red, white B Bank these four paraceum 1, me they your C What is the first animal on the lar? O What is the most common two systable word?

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NORD

By Terry Huniá

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"Britis they couldn't burg thematives to me papping they depicted they tao' to bring the propie to wheit bitry work" explains Sacoph "A shopping that wai the particle wold on "

The mat quickly became the renter of commarise in the Western Heritsphere, as Insusando of Massers, Innoz. and other South Revenan Lypes convergence-ina complex that, accessing to some canvings of the gate toured mail as the perfect place for "One Sage Hyning and Gathering place for "One Sage Hyning and Gathering

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But the most closeliar entitetilencents were the human sacrifices. Theys cananorises were comp periformed only in closeat softly-socied templak or dop, exclusive pelismets Hava for the high one, hav were specialized to the mail-going public

Initially the real had one secritical center explains Savage " (but in time they expanded to a facility that had eight sites, each testumg additions type of human secritical it was a lot like the modern realization therein—only inclus to "

Dre of the great try-stories of the Great May in the station for its demain. "No conknows for ours," topic Savego. "But the breat guess in the lib clarifier was brought about by the popularity of the human apenfices."

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Bory Rurel is a historice functor writer trans Marcial and which tepats to open reason transar satisficar herechests in Obica do The year