



EOTOR & DESKIN DIRECTOR; DOS GUCCIONS PRESCENT KENNY RESTON DECLINA EDITOR DEX TRESS GRAPHICS DIRECTOR FRANK DEWIG ANT DIRECTOR EL ZABITH WOODSON



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The second secon



FIRST

•We are caterpit

soon to be butterflies, and, when we look to the stars, we take that vast silence as evidence cery people. This is televisible if televisible in conline, change is the only constant in our label was easilist be proposed. On a final final size of the people of the control final size is the people of the control final size is the control of the control final size is the control of the control of

in have the game of federate is to plot septimizance performance—comput speed any—agents time. Such area (unled challed own more sleeping. It is exposed 30 or 40 years they are as high and sleep that even the most may shall not about the product a level who they have the more may be also the shall be also as the first produce where all equivalent valences are obligated in first growth.

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enemes intelligible. A Cro-Magnes main brought into ourpropert costil eventually understand the changing of the liter 35/307 years. The otherwise believan contemporary manpful the creatures who late payand the implant is accomposably more profitand over it we could visit their exist most ofment we would be the would be 50 years.

This is a visco mass popule islant to the far future, purhages after amptire delicer years of the second se

The Delivative transfer grows a regularly foolied for the allies of the Time Regular time progress in surveilably the side of the progress in surveilably the side of the progress in the surveilable sources and the surveilable surveilable sources and the surveilable surveilable progress and the surveilable surveilable sources and the surveilable sources sou

It's imaging the point to call the propers, hotherological unexplayment. Even before the leag for an explanation continues to the more here harman retriggences we are continued, and about be onestage. Whatever paradise the world may be man will be the leading action no more. For some this appearance may be a seen.

be offstage. Whetever paracter the world may so man will be the leading audior no result appears may be even. For some title operano may be even. less deserted indeed more catacityamo, then taking a reor alome war after which was might proposed with human, business as usual. But it the semalatric is increasely.

consistent, it held not be depressing Manual Manual Massachusetts Institute of Manual Massachusetts Institute of Manual Massachusetts Institute of Manual Manual Massachusetts of Manual Manual

as the character of the character by the character of the

stiefligence rather then except to replacement by excelvins. Folloig into the exquierry is admitted a frightening thing, but now we right regard quaselves so castepillars who we soon be butterfully about where we look 50 this stars, take they and severe as

Memor Vince is the eather of several scipling floor rower, the nost-recess being the homes An appoints professor of noth-security and several as a ponder as the Draw-Symposium on Androis' highligance

CONTRIBUTORS









In 1971 Trebert of stropms usually control for the property of the property of

NITH to page 44. Dr. John Lifty is best known as the "dolphin mair. He life is an odyssey a fescineting, bewidering, and controversi story. He is is mental grant, a man of enormous salant qualified psychoanely. 12. DMI. of add main researcher eric zonneis in effects as chores as recurrences; beginning and extensive theory to be a soft-responding to the series with oppositions to develop a trument beginning to a soft-responding to the model facilities of the model for the time. Advanced States to commount washing from the series with report policy to commount washing from the series of the seri

Others T. Nameric famili starty is were manuporated say and to commences the nationalises without of concern either ment concern makeness empose roved thereone internate the employation of international companies of possibility of themasis Companie flood (Addison-Weedley 1988) was given the said of collecting of the collection of asking of collecting the option of search the concerning with classified activements of 1982 Consider for search the concerning with classified search to the collection of search to s

Within the next law decides a burst o scentific and technological actives will after our world. Automated office systems permits engineering, and police instructioning of craws shrives change Present modes of energy, commission and emportation will be outdood. The fortunes of owner selected patients of polices of the secondary of the secondary of the secondary of the production of the secondary of the secondary of the published by Hamony/Cover. On page 85 Chewis doctors recent must secondary of the secondary of secondary secondary of secondary of secondary of secondary secondary

safficialization to recover and warm about safficialization with linguistic and facilitation and safficial saffi

Are you up to the challenge of Wizard of Wor and Gorf?



So you're not stud at via games? Joysticks meit in hand? Don't let il go to vo

hand? Don't let it go to your head. Try mastering Wisard of Wor and Gort the two Bally/Midway areade his you can now play at home. They're new from CES Video Games. Both are made for the Atani?

Sears® Video Ara WIZARD

radar screen

WIZARD OF WOR

Date you enter the Waard's
diabolic dungeon where doom
lasts at every turn? Can you keep
your composure as the Waard's
bonchmen try eating you
ALDYS Sight book.





Visible/sometime-available Wasto fruit no one Waard is designed so two may play at the same time. And snoo

Now we don't want you to traction out totally but if you re still up to the challenge top the all-time high score 92,500 by Frank Morollo (10/82) and that Printly (6/82).

Can you hold up under the challenge of lour ditherent boards in one game? At pine different lowes? By and board the high score of 32.700 by Henrice Eckerstrom (9/42) No sweat? Well what it we hold you each level was fatter than the lost? Next ham you'll talk before you sweak But now you must force the now you must force the proof it talk before you sweak But now you must force













expect are you still up to the challenge of Wizard and Gost?

one are trademarks of April Inc. God and Mineral War was regulared independent half of Marry May C

COMMUNICATIONS

I have set functed reading the August. 1982 gaus of Orny and I fork the Garres section for humorous headlines) is particularly funcy. It reminded me of a religious not sighered thansalves with mustand and stole is United Percel Service.

Detroit Mich

Mad about Marisuson The fact that manualna is likecal seems to have clouded the automent of Franklyne. in their report "Reafer Madness" [Continue September 1992] it would

safety reasons, connect emoker four pine those for whom euphona is discoverating unpleased, and numetimes highlesing? is sale and harmless, they should work to legalize it rather than attack the legiterate

Alizad of the Dark? I was disappointed with the skeptical Dark Linky 19821 by Lee Express to the traditional five senses. We can magine concepts from quark to galaxy

Manufactured Taxpayers

I was outraged when I read the article entitled "Baby Makers Inc., by Allen Maurer (Continuum, September 1960) Why does a fareastic science magazine is more concerned with eliminating human shald of the fact that lower people means

Is 3-D TV rently considered a break Insough (Continuum September 1982)? vulgenty, and the mane commercials will I would comeder it a creater break

Palm Springe, Geld

Baldness Concern It isn't often that I feel an urge to write to a magazine that "Baldhers Cure" by this molady (alast). I read the report finally induced research into this crobbem It should be observe that no one works and ineffective losons and preparations problem, and I feel it's about time the

> James Brace Sandurky Oteo DO

In which the readers editors and

Apent Grange Controversy

Wernyout (Farth, August 1967) White problems, we at Dow Characai believe ewdence available that the health of Victory weterans differs appricantly from

Throughout the Wetnern War malaria was the leading medical problem among a difficult problem because of a certain strain of the disease celled becaperum

In order to control the problem at Previously dispione had been used for the treatment of legrous

Because of the urprincy of the problem displace in Vietnam, but we now know that if slowe regiduce is wide sample of four. effects that closely resemble the present dapone among ground trages was imped in 1969 when it was learned that cleath of affleast eight perviolemen

Hepatitis was the second leading medical problem among American troops that hepaths plays an important role in medical time bomb because there have been many cases in which bacters

later did the disease manifest mail agent orange some with the Weersen - Interagency Work Group on Agent Orange since the pight of veterans should be

Philip H L. Schneider Dow Dommunications

Or Ronald Coderio replies Malactoso a and the other of 500 men, it was found cases in quals arried. Attouch the prostate abscesses. This clearly is not

been reported in only a headlyl of cases

the veterans had Mr. Schneider members the unfortunate increase in 1969 when reported to cause perptyno problems o Mr. Schmider discusses the association of over cancer and hepapea. It should

thispusts (I) is associated with a greater I want to congratulate Case magazine

The VA poetson is that until medical

recearchers clofentively link agent orange the VA will not recognize the problem. We

Although I am glad to see that there are

Vietnam votorana who were exposed to My family and our neighbors have also been exposed to this deadly chemical received in the wornty of our home was producing distant and other pollutarity departers like those described in your aracle and I suffered from dozoness and

Profestion Agency which in turn contacted the Cook County Department of Taxoplogy. They found evidence of closer in both animals and humans in the area. The Cartin was eventually closed because it had hever received a poper

pormit to operate.

To read of a possible antidole is encoursigning after twild been told final we have a "mystery ritinosa, which we must "learn to live with." The membro of neaseach being pursued at the Walkan Laboratory in Mannapoles, gives us hope and in line in console here in cases as

Thank you for the article on the effects of agent drange. No one seems to latine much about agent orange, but Plannia, Wentraubly, a shade was most informative. My nucleard has been in and out of hoppids over since 1958, when he was not shade and the shade of the properties over since 1958, when he was the properties of the shade of the properties over since 1958, when he was the properties of the properties of the properties over since 1958, when he was the properties of the properties the prope

sect hance from Vesteam after he was excussed on the foot He has been even p approximate to the past fines years. He read he got with the Postali Service or May 1 1960, and of merial and physical allows. He bones color, and has foot trusts all the firme Cur here servind to be falling approximately to my rusulated decaded to the large hope at the VA office. We got the outsel have received in the second or that here were decaded to the second here were decaded here. The second here. The second here. The second here were decaded here. The second he

1996 to 1998. She told him that he should lake agent councy teach segment councy teach we decided to find our about cayfring, and we decided to find our about agent orange considers. Your nations were a country teachers are considered to find our about agent orange considered. Your

Jacksonvile, Ha
I have been building up steam for a while
on the agent starge listue. I sympatrice
with toce individuals who have been
affected, but I am uncertain about the

at those within the government who made the termble decision to use those ghrastly herbicolos?

I think fire can be no doubt about the fact that the decision was a corresposaore such that it was made a corresposatore such that it was made a corresposation to high out to government. This being the case I can only quote a outbre appealing aphorism. "A people is continued to the control of the control of the terms."

rather appealing aghorism. "A people get the kind of government they deserve." The resule of what has happeared to the Vasnamese against whom tress her biolode were used, should not be ignored. What has happeared to them?

Ohart du Plesse.

Pepublic of South Africa "The Apical Crange Mystery" appropriately

from something, and the public owes it to them to find out what it is. If beam to find out what it is. If beam to provide the period of the first own to the first own to the first own the first own

may be microwd in the cases of suspected posturing from death TODD 11 rist begain to work with products containing 2.4.5 T in 1946, and my exposure in spite of all due case in historial in that of need venerals. I understand to that of need venerals it understand that madicial histories and confirming surveillance of dhemical plant workers who

welfance of chemical plant workers who have a long history of exposure to this toxic down full to indicate thy long-term problems. The important thing is to find out what is neatly-woring with these valential and

is really wrong with these visiterans and to help them Keith Barron Holmes Beach, Fil

Nuclear Reactions Orms inforces with Hand Botho [Se

Oma s refraces with Hato Distre (Signature Visit) and the highway and success 1930 of the highway and success 1930 of the highway and Strangalow was some credes preceding to the high of the high of

mulsion of histornable material for lifet, purposes." Right after noting that fuels sold to saffree would have to be kept on 'a millary site. or subject to that level of security. I are very disappointed that the interviewer did not question Dr. Bethe about solar power it the siffree, the nuclear.

establishment the government, and the military put hell their energies into the disvertigement of clean, sale smiler power this planet would be sale and powered for until millerina.
But of counte the established nuclear businesses aren't having any of the May the relat certifier's minder prove Beffee.

will sately outgrow

Don Jordon

Phoenix

Excellent lob! The manywwwith Dr. Hans

neactor operator in the U.S. Newy and I have participated in the operation maintenance and testing of many different power plants. It's about time we heard from someone of Dr. Bothe's calibor on the issue of nuclear safety. The metrust of large industrial shines has put us in a position th must be overcome soon if we are to compete effectively with other useral suppliers of nuclear fectinology.

Michael Bull Charleston S C

General introview with Dr. Faire Bethr was full of the same metgly-shaped interior that proporents of nuclear power and nuclear weapons have mouthed about the General States of the Control Teams you the States of the States Teams of the States of the States that the States of the States which the states industry practices and balant states of the Control per resident on the property and per resident on the previous per resident on the previous and import will drow unless we carry and import will drow unless we control that person in their States is consider one that person in their States is consider one.

> uch jeopardy Bill Evens Legurites Calif

Though I am very much opposed to nuclear power and its growth in out country. I found your interview with DI hare Bethe wery informative. Dr. Baths clearly believes in the safety of nuclear power and welcomes its preferation. I toward it was not made clear where the waste from nuclear-

hally deposed of This is no small matter, and I believe that Dr. Bethe should have discussed the masshoot.

Dare Dougherly Forfuna, Calif.

Dr. Hans Betho may be a very intelligent person, but he seems to lack pormon sense. He bookly spores some on very important facility spores some only important facility some some properties. But is understanded that are projected to the deep words less of pormon in facility. Dr. Bethe words less promote in the distribution of study but when committee that the distribution of study but when committee the latest that the sense of th

The laws of probability main that the more nuclear reactors that are built, the more it is likely that a nuclear accordent

power if I flought there were no other waste attentions. But solar power could be easily second the most economical energy source if we spind even it flushes of the monty almo and offort we now spend on flesion reactors. Technology should not be used for its own sale. It must be applied to solve

> Flick Slegfred Arceta Calif DG

EARTH

By Douglas Starr

ance and Ed Dennis know the special anguish of parents whose years they lived in a small house in the shadow of the smoking factory, which breathe, the air hurt your lungs so bad grow increasingly if with maladies ranging from headaches to stomach cramps meaning until 1976, when tedesal The world lead pareoning randered in children living within a mile of the plant

had abnormally high levels of lead in

load possering. Later a specialist in

fears: Three of their five children had reversible brain damage. I've probably will never be able to held a job without affected With their nervous austerns.

The powder, people told Cathy Soot. was harmines as treshly fallen snow. extentor with he budden at the Clobe. material lurised beneath a tren layer of danger until the Anzona Heelth

been playing with a potent carcinoge when they told us that. Cathy awa news. She inarried that ashustos could few decades to act, then it could render

These victims, add they laments to throughout this country. With toxins Laurence Fyriberg, charman of the

cells and brain cells—the tissues most pollutants. Children breathe more air per

contact with a vast variety of poisons children been even partally documented progred by the same laste polluton case of this in 1976, when he was called to treet a batty pri suffering from a ready The muson? A dry-clearing solvent

turned the mother's mik. The mother had



Children are being postoned by lower spewing into the air and leaching from the ground

GET AWAY SPECIAL FINALS

SPACE

By Owen Davies

office a barroad abunstum for the first for the major fitted for the major fitted for the major fitted for the fitted in Commandor to the fitted in Commandor for fitted in Commandor for fitted for fitted for fitted for fitted fitted fitted for fitted fitt

Last June Give made is readors an order bit many could not relieve. Send in the beat does for a scientific experiment to fry on the space shuffle and well pick up the sib. We will expect you are of MASIA's det Away Spoons (EAX) consistent which to carry our your plant pay the cost of your seagment, will then by you arrywise in in the controllerial United States or in the states of the shuffle of the states of the states of the shuffle of the shuffle of the states of the states of the shuffle of the states of the states of the shuffle of the shuffle of the states of the stat

It was not easy for respondents to devise a possible winner. The experiment must offer new information of real scientific or technological interest. If must weigh no many than 10 must be self-fit investe is

GAS package less than 30 inches across and 15 inches high. And it must be able to survive Bookerstoned up to 4gs sound levels that would let an improtect ed animal and outside temperatures that could vary from a high of 150°F to a low of ~595°F—quife a bit colder then lead oxygen.

E Even before facing the ingoin of regarded programs of the proposeds must endus to tourned of judging in the first is taken of spaces occasions however the extension of the extension fluoristic meeting of the extension of t

repotous screening.
Now the second nound has begun Working with NASA, project manager Downs S. Millor are vie sent each final of a oppy of the GAS Expanseries Herabbook which data is the technical constraint on expenients designed to fill in a Gel.

enthants have been given the option of speaking out their plans in speaking out the speaking out their plans of the winning entires will probably be changed when NASAN expents scream them for stally hazards and behincal probatines. But yidiging during the second murrir will contenue would not the ligarist the criticis we used in the first sound ongraftly shealed by speaking in minimal.

 In alphabetical order, the Invalids and their ideas are Robert Arnald, Massilon, Chro Test the structural properties of concrete exposed to the vacuum satisfach and temperature changes of season.

temperature changes of space Frankin H Gooks is professor of mechanical interventy in Durham science at Dufe. University in Durham North Carolins. Create foamed electrical alloys with undue offiness properties at the Powler, Austhr. Tesse, Exernine to the production of the programme to the production of the programme.

Harry Gittord, Section and California Study fromted motals by using a liber melting point alloy celled Wood is metal (when I T Getmare and Sheebay R Features Silver Spring Maryland Looi at the growth and movement of micro-

reasonal server spring Maryland Lo at the growth and movement of micro organisms in microgravity. Margaret Joyce Afringon Virginia Attempt to make a new preparent material from components that cannot

Revo T. Kiesh, a pre-med student from Castro Valley, California Study the development of a living bosus sample in microgravity cand forma Mary G. Lingus and 7 kmothy W. Forestress an environmental engineer and a research exclosing respectively, from Oak News, California. The thir effect.

and a research ocologist respectively, from Dak View, Californio Test the effect of weighteearniss on entiripoing growth in the California sea suchin Gary & Moderson Viewoca Mirmesota Fatmoste electronic frequency-cocto

Rigal M. Parsad, a ninth-grader in Fairnew, New Jersey. By exposing a acids to conditione in outer space. In



Models for the fusive. Owns contest stimulated readers, swerings and ratual colosity.
22 OMNs.

science could set invent a pil that or even barroom brawle Flight? candidate for an arriaggression pill properties in an expenimental compound

(Broduced into his cape. This is very

normal aggression patforms. Other drugs

Most important, although it has a pronounced effect on ofference behavior on detenance behavior at least when himself against attack by an untrealed DAN

affect human beings in the same ways presetos monkeys and apea though such other species will respond differently too

response must be different in mice and rats despite the close evolutionary kinship

Even within a single species, diversity of aggressive behavior Very simply the

in a moment of rage and kills him to

who resets him during a holdup? How do all clearly examples of appression But despris the identical label we apply each one as well. This implies that no

she engaging in the same behavior as a

This becomes particularly obvious if calculations that motivate the commanders humans as it does in rodente it is herd

certain narrowly defined appressive The drugs will raise troubling moral questions about how and on whom they

should be used, but that is a subject The point is that ourbing appression, in

Approved such as defense are socially be a pd that will give us peace, in the berroom or on the bettlefeld DC



TUMORS OF THE PSYCHE

MIND By Mike Edelbart

regory s brain turnor appeared when he was nine if befind switch singley and relations end-ground switch singley and relations end-ground switch singley and relations end-ground switch single single

the markey he hight for the alterno space baffile has censor-shing white blood coils became a deadly spline squardon his was the integral squad operanities tool labors. He doobts was ground control. One year later his burner we gore. Now thereas he settle visualizing and shill candon-free.

This life once typical of grocery checked fallshold was related at a prestryout medical conference sponsored by the American Institute of Stress The conference sponsored for report or a new medical sear that his garred wide alteration and credence among the general public that many oregones may be stretched when the stress of the provinciagoral misuresse, practically stross and that diseases can be concurred by deep the stress of the diseases can be concurred by single from medical to execute the stress of the stre

those influences. As the confirmence operator, Dr. Paul. Rosch and E. Strees is when you've not control of something it doesn't eather what method you use (b) get back microtrial as foring as you have teath in it. Efficies is a storing fash in a treatment mode—whether it be a tash begins. The strees at Lourdes learning or multifluence in creation to bedring that pooley are controlling the situation. They are selling throughout in the book limit in the pooley are

control here
"9st, deapfiel the enthusiasm of supporters such as Dir Rosch the case for stress as a direct couse for cancer a scarnfrically-week. And fit wide promotion has actually harmed far mor carroor patients and their families.

than it has helped.

Take for example the woolly report concept of the "cancer personality" advanced by psychologist Dr. Lawren LeStein. The typical cancer victim, by page 1.

LeSteen says had a traumatic christinous and test as represend emutored insideup, and the cancer appease within monthly allow the cancer appease within monthly such as the death of a loyed one By being writing about offer the conformation as been writing about offer the cancer of fulful deaper in the cancer of the cancer cancer and thurms as physically impossible. Some or connect possible developed in the cancer can

and flauries is physicisty impossible.

Cannot comist possibly develop set in the common possibly develop set in the common possibly develop set in the common possible possib

to completated to allow for such a ample explanation. But work is the suppletation but worse is the fact that this uncritical societance of the sheet cancer link can shappen potents encoord suffering Methods that require potents to accept

Mind over matter in there a cancer mendion?

the idea that their emotions contributed to their cancer are not innocuous, water by almost embland, chet of Prychashy Service at Storn Kettening Memoral Cancer Center. The patient who bleady feals guilty for delaying seeling treatment or who is valinanteed to other delaying seeling.

In five Prints City-based patessonal organization prosts cut that here and more cancer patents are story the position-every day. An instep people com to believe their errorative and attitude out of cancer patents cannot have over of cancer patents cannot have yet and the patents of the result of a personal devotoring; in the result of a personal devotoring, and Mint began as the flooder way to believe in the power of mind over motion cannot the implication feel that the cannot the implication of the control o

may adsulify be so.

As a matter of scientific fact serious researchers say is center victim carried their presentations of their presentations of their presentation of their presentation or the disease or for its cure. In the words of Phaladelphis cancer researcher Dr. Clause. Bahmson. "No one is any more to telum for his lifeses than for the shape of the leastures on the face.

The lobel that otheres played in cancer.

question. Most receivables agree that substates the fellect of sizes, it is not significant and not always presideated begin with substantial to well as simulated begin with substantial as well as simulated to the control of the sizes of the control of does seem to enhance the nix of card is impact as selsowely small in humans according to control orgonit for Sorrial Fox. of the National Cancer Institute only vertice the psychosocial factors may not legate a cancer 1814 from princip to vertice that is princip to control sizes will promise to swell psychosocial factors may not legate a cancer 1814 from princip to civilide cancer sizes will specific princip to civilide cancer sizes will be princip to civilide and the size of the size

forward in their understanding of the roots of cenoer and what note stress in play public fisionation with the stress classification of the control of the classification of the control of the control of the classification of the control of the control of the classification of the control of the control of the classification of the control of the control of the classification of the control of the control of the classification of the control of the control of the classification of class

THE ARTS

By Martan Hunt

a group of theologians what his studies of living creatures had taught him about the risture of God. He replied somewhat wickedly that they revealed the auckance but It was more than special spenific perception of reality species, three quarters are insacts, and

writer Philip Hilts: in whose new book Schuster 1962), the procedute accessor to three leading American accentists

Hits chose to his three specimens.

made of the proton and the developer

proper it minutes—or even days—base!

such scientists are papeble of 197s

dailty captures both the excitement and incomparable thrill of discovery and-

14/ts also expires the pointul awareness discovering on their society. Take Wilson

When the first one was detonated he

Each profile offers its own unique rilegaring. I found 6 arms! fun to to peep into their private lives. On the physics, biogeneous and artificial intelligence excited me by making what

papable of comp what the reperture do

are able to see what they see DO



Farming Overclay Appear Wilson, one of the man of vision prohing in Sciantific Temperaments

THE ARTS

By Roberta Gram

The Dark Crystal is a creematic fary Balahi's mediocro liss variage of Talker's depend on military of dollars spent or

When Henson was invited to create Sourcey Night Law TV show he used

Melike ayas—the land transversers emplace in stuffed animals—and became drawings of British (lustrator Brian Froud

says. But in the case we started by

As the two creators worked tapether

him says Gery Kurtz exproducer with

Kurtz out his teeth as a trip-budget Strikes Back What is new about The Dock

ment going on. But with machanical creatures you have to orchestrate every with mechanical creatures, the problem is

made except the fertible claws of Garther of two Landstriders, then reong away As However Herson had a different idea accomplish it in the study. full-scale?

Ulampaly the Landsinder was to consis



With reschanced actors. Yet producers archestrate every move down to the blink of an ever

BREAKTHROUGHS

By Gurney Williams III

Sold as a let (for under \$1 500), the capable of telling owner/builders to

integrated-circuit memory

cassette tape recorders, or from a hand

appropriately to prevent spelling sensing system that converts changes in

disps or angle-sylubia words (Iwe), while

an ultrasonic ranging system, oparating accessible elections; board on the jobots

Heath siso sells a fully constructed page 16-unt Robotos Educator Courte (Dept 150-125, Benion Harbor, M. teaching aid (or as a gofer for an

When the Baby Temp, a new hatry over 1007F The Beby Temp can be

instant carriers is portable processing system that makes it possible to develop taken with any ordinary 35mm camera There's just one catch. You have to use s Autoprocess 35mm System includes a portable 1 im processor, a sixte outler and 36-montage rolls color transparency a special high contrast black and white Source Cambridge M4 (2198) IDO



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CIVIL DEFENSE

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CONTINULUM





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Inflactious diseases were rown in the very earliest mes. Pleungain rays. but hair frequency increased ramatically once agriculture is established. Evidence





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Patients feel only a slight tingling, yet this mild therapy subdues violent reactions



volven oursetts at least Patients feel only a siight electrodes are taped on "Yet this 'mild' therdue the violent physic nemon Though one ocety. Ticen take atwood off a drug of abuse no

patients; she cautions NET is far milder, in

cigarettes, heroin, bar biturates, speed, co name of These or a di-Perror! frequency that works best for each kind of addiction." madical device. Her black box (innaids of an early model are pictured on the page opposite) sounds suspiciously like quackery Just twiddle a few knobs and-presto-you can be cured of www.rmagnable.wca. But the magic is real to peccle in the rock

shend is not the only celebrity who has benefited from her unusual remedy. She is credified with having reformed more than a dozen whose reckless abuse of drups became as legendary as his music. (For Townshind's personal account of combating drug addiction with Patterson's black box, see page 48) Happily, Patterson does not fit the image of either a charlatan

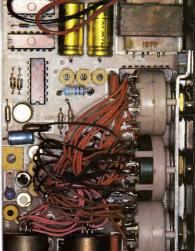
or a cult trouve. She is in her fifties, elender of frame, with a kindly face that rackates compassion. Her pale blue eyes are set off by a magnificent mane of auburn heir which is awact up into a graceful. nestorno the body to normal within ten days. Most patients report

Patterson's electrical stimulator is currently planding clinical approval by the Food and Drug Administration (FDA) in the Linted Statos, whose she has level since 1981. Over the last decade in Therapy (NET), the technical name for her treatment. Patterson niams that all but four left drup-free at the end of the detrochcation. process---a remarkable 95 percent success rasa "NET should not be confused with ECT -electroconsvisive therapy for mental organized as an impositor in the treatment of heroin addiction. "For

taxification program remean abstract Patterann emphasmas that NET is most effective when backed up by pourseling, remedal training, and a supportive home environment. For many individuals, however, the treatment does appear to have long-lesting effects. If we are to believe the recidivism figures she cites, they are many times lower than the national she is both senous and highly capable. At twenty-one, she was the volunteet woman to qualify as a doctor at Scotland's Aberdoen University Only four years later she obtained her Fellowship at the Royal College of Surgeons, at Edinburgh University-an elde circle that few surpoors penetrate before their firthes. And

native land's highest honors by the Queen-an M B E. or Member of the Order of the British Emoire-for her outstanding med-Colleggues and patients describe the tiny Scottleh surgeon as warm confident, and virtually unflappable. "You can't con her

biogor drug prescriptions. "And if you try to put one over on her, "Sho's the sort of mother you always disagred of harms." says a female addict. Still another views her as a saintly figure. With Parroyon's close sapport with her patients has made some hybritistion is really attributable to the powers of electricity. It's her necessality' is the chief disclaimer psychiatratic have attached to her work. "She doesn't control for psychological factors. associate professor at New York Medical College, who is rep-





PETE TOWNSHEND ON THE BLACK BOX **Separate to the Speciment Stage for accorded data, Speciment Stage for the Speciment Stage for according to the Speciment St

eight to ten tablets a day, plus Press sloughts pills a

example what happens if you laiden Wotrodes to patentis heads but don't have on the electricity? You gust talk to them and fead them chroken soup. Will they do botter, the same or worse than the group that got current?" Such skentinism is less common in Fro-

Such skeptional is less common in England, where Patienen's clinical practice was based until recently. There, a number of docues have already begun to obtain the same beneficial effects with her electrical altraulator model.

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The scelesce of electrical medions:

In the easy Demonstral scanning to the control of the contr

By commer, weak currents applied to the brain affect different physiological processes' says Dr Robert O Bedvar a promer of electrical medicine, who is cently referred from Neterias Administration Hospital in Syracuse New York, "But I beleave Dr Penesson is concluded additional law by the processor is a more processed by the law Dr. Penesson is more processed by the law Dr. Penesson is more processed by the law of the processor is concluded and by the law of the processor is a more processed by the processor is the processor in the processor in the proting of the processor is processed by the processor is the processor in the processor is the processor in the processor in the processor is not processed.

ktile gadget has mode me feel whole. And if I'm ever siped by a crozed put and become hooked all over again, I won't hersiste to call filleg and have addiction handled in the analysistmend, completely litchincal way." OCI EIGTION

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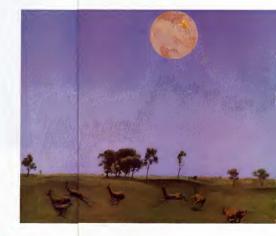
An odd pilgrimage solves a biological riddle

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PAINTING BY CLIFF McREYNOLDS



so based out there with Chien Li., you'll be Inne stopped issuring it was not the

that made her a dabbler a mercenary in hald not objected, but Chien Li had wanted

ruled that she must

shoulders, abundant black her, and a to pound someone on the back to bear That's your guide! Johy said 'Paulo

beck," he sed with satisfaction. "Crazy old. the little fuckers. You'll be back

a partial eclipse of the moon. Pick had the silver half-mask he wore. She had one

A flock of dooley birds had norn with

looked the spears when they folded then wargs to dive. She had read about them

Below the lorsets had been deared and and complete The car climbed higher Than

gazed in rapt attention at a darking wall

with the cay but abruptly they began to

The creature was immature, the size of a half-grown cat

played back in real time. its movements were blurred past comprehension

real straight up moving together the way with hydrogen with those damir append-

They fire over rolling bills, mountains as

wide brown river a choookite-opiored lake umber plans swamps. After a brief stopsalapply bushes all in shades of brown This was uneasy land, and twice they di-

Finally a deep valley appeared with but the valley looked perceful no wind

His voice sounded loud after the long

make out the structures stop before one of the mounds that was

punters other untarnéar equaprisent Ar linna felt a soit when she saw Chrien Li who was a logardary figure on Earth. She Hern sho is Pick oxfed as Chien L

swep. Unload later. He waved to the two You must be tred also. Chien Li axid She stocoed some feet sway from Implant

passage into another smaller dome. Sepsense hyma guarters, a true lucury. Here

Pick may want to share mediane. Chiles Like a taking dolf. Irins thought. An ac-

num: clearly washie from the camp even



His name is synonymous with dolphin/human communication, isolation tanks, drug-induced voyages into altered states of consciousness. Is he crazy? Or brittent? Or both?

NTERVIEW

Dove the carcharjule cream houses and period or socolors and the control of the

thing like. To you mean what dimension? Sameone thought he worked with dolphare at Warne World in Redwood City just south of San Francisco, and it hums out he does But when I phoned them, I talked to a suppossion of soorstanes who had never heard. of the remerkable Dr. Lilly I finally set a message with "Charles," a guile guard who told me that he sometimes least him go in and out." No lock, When at last I called he house in Marbu. Lilly arrewered the briefother hereset and cann me coat discretions that

amented to the degree on effect (1976), begins with the conception of the surveyors (1976), begins with the conation of the surveyors out of corner dust, but he own internet charaction of the surveyors out of corner dust, but he own internet charce and the collection of the control of the collection of the degree in ballitary and physics in 1938 and with on to ear his degree in ballitary and physics in 1938 and with on to ear his auditined psychologically. He first the was both on "Tabulation" 144 material of the psychological consistanting boothysics of extracelled psychological psychological consistanting boothysics of extracelled psychological psychological psychological psychological state complete theory one has near method by the deciration.

PHOTOGRAPH BY CHRISTOPHER SPRINGMANN

he held two posts-one at the Naponal Institute of Mental Health (NIMH) and one at the National Institute of Neurological Diseases and Bindress-both part of the NH he invented a technique that allowed wave recordings from the cortex of unanesthetized animals. He also mapped the roct electrical attriulation of its core regions And in 1964, tacking the classic tion, he built the world's first radigner tank Floring it his clark spiret, salauster void-the original version of which reguired that he wear a skindiver's maskscreensts had supposed. Furthermore psychological freefall," which could include unusual sensations: reverie states even stratianed businessman roughest spend their kinch hours-and upwards of \$20-releans in health-spa transpellty

phins and perposes sprang to mind and the real, of course is history. By 1961, L.By direct the Communications Research Inbig-brained sea-dwelling-mammals Convinced that dolphons are not priv smarter colled soner language-corpulational matter paccutately by the beby telling deletions a lifeking guest to "talk" to the Cetaces. two faced Roman god-to work out a hu

While Lify was expermenting with otherworldly states in the solution tank the halovon days of helkic moderac research were under way at the NIMH (LSD was not to become a controlled and therefore sticky substance until 1966 l Life, how Moong LSD and explainin tanking for the Institute in 1964, he entered what he detransfing interSeller realms, convening with added up to me " be would write of his Ruminations in The Caster of the Cyclonedimensions down to the quantum levels spaces, and the fantastic forces involved effects and the other changement of the

By all accounts. Lifty has probably taken LSD and 'vitamin K' the superficilitions

> can run my computer, ski, or do just about anything on vitamin K. I've been on it

hundred days straight. You dan't really sleep because you don't need to?

Indinos in popular books instead of in Essien in California and Oscar Ichazo's When arked about him, manstroom sowith death says one neurosciented trend brilliant, and yes, he does seem to have and nights. It is also true that he has always returned to Earth, however constraining its boundaries, and first his wife mountain roads. Lifty announces: We have

one rule in the bound No one can trive

drugs of any kind and drive back down be oftenno me and and K--or did I hall He tapes me with a matchbook-sized Japanese tape recorder while I tape him. guards his entryway "Who are you?" he demands. His side of the convenience is curt "It was someone asking about the sold-crare entities " he talls me. As our anterview proceeds. I watch various expresalways uses the pronoun he never it) echo in my head, and Lify seems based.

nd of me for a while, he excorts me to his

in this warm saline sea of solution who s such luminaries are Nobel phyraciet Rich visions, i by to sort it all out. My visions are plant traing to leaves on the water a tetus la doloter la wtempo bian in an inor track of firms) I omerge and try to combnue mental laboratory. Lifty today records he denly walks in smrting and carrying bees

> Only later at home in the Los Angeler that for 24 hours after solution tanking again. The following interview is the result of our afternoon together in his Malbu home

Cleans' You're probably best known as: 'Di Lify At Marine World, we're working with code analogous to the Morse code used

LAURELS (AND HARDYS)

ONNIBUST Some years ago a group of creative chemists deand freefod a foul-smelling brew with pursuint of ears. If was to commemorate such feets that the O proved more difficult than recognizing the need for it. We por

a trip to Stadellocim. Could we do issue? We could the groot, see left, could requal on kind or gualley the decide of our winners. So what is what we get them nothing. Have not design a special properties. Have not design along, this is better to previously the cite does not that his methods with, Fox leaves are to question and another than the character of the cite of the ci able new solution to the en-

FIZZLING SYZYGY The world feeled to end last spring. That should not be nowsworthy, and yet a year or so ago some of our wider-eyed colleagues contributing, and yet a year or so again assemble that white synce, consequence were reported by the prison of the registration to a retained of the grained syncy, or the significant warms of the primer of the pr

in Once is early as June 1980. That was not enough to quell public as rolar system. The rest end of the world in scheduled for the year 2181



FUNKY SCIENCE For bringing is re markable, from perspective to the pub to discussion of nuclear power, we want to honor Harold C. Funk, editor of the so (Canada) Weekly Jobuse unk diskkos rudiear power bocsuse he believes that electricity genera the plucky editor held have er. Onterio Hydro's man "was un that electricity, which com-clear reaction, is contamin Even more alarming. Furth has also





DIGITAL DASTARDRY Once electronic games statind gotting dever, it sould only be a master of time before they got ento busile. Los Angeles police text year sported one robot seasing discussery around Browly Busilescud and booked the times, perhaps for being under the influence of isomeone under the influence, in profess case, these, But Laboratorics computer-device champion, was paled.

In strother casis, feels, Birl Laborations computer-dress champton, was paids and the commonstruct. Not Thompson, were on them may be a Chelle meeting in the USBAT Thompson makes the behavior to be a common to the common the test confidence of the common to the common the common test of the may be expected. Classified of the best confidence from a six price of common testing of the common testing of the common testing but confidence in the common testing of the common testin



EXOCHEMISTRY RAG Perhaps inspired by Metotesi, or businessino homoney, a tervanary of London recentries named Histold Baute hos perinted The discensus a Sanghosis, a compondum of diffee from Me.

Bourn's melables are old favorites like "Mine Eyes Have Seen the Clary of the Dosming of the Lond," "Aud Lang Seyes," and "Wallang Mattes," Built the lytics ere right out of the lasteratory From "The State Hymn of the Agrates" come Tress

strong lines. "Mine eyes have seen the groy of respectory chains" is overy inflorhoodnon intrinsic to membranes. Functionally organized in complex sold domains. And the passan ends (EVERYBODY) (Gory glory, magazinan Whore electrons flow sions). Breas out another fass for Or Basin.



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LAURELS (AND HARDYS)

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that, they thought, in a weel publicated study at California Pration State Hearpoin The Sobelins stol pa code. tall burge in the houseal, ben gave 20 derivers behavious therapy—electric shocks if they guiped their highballs. This, the Sobelis said, had burget and full creof their publishs to density in encoleration. Now comes the stiff chaser. Their work has been

Now comes the stiff chaser. Their work has been epublished by their former boss and roundly attacked by several California researchers.

chadding thair work, of the 18 original "cures," only 1 continued to dirtik moderatily and 4 have due 1 in Noventhor, adding further fizz to the controversy, a grosligacus committee researing the work durins and most of the oribosins, of the original study, supporting the

LAURELS (AND HARDYS)

THE INTOLERABLE STRAIN All mice are not created equal. a foam of University of Wilsonian measurches contributed. And their finding has out the world a largest supply house for lab animals and the secret file depth in the property of the contribute of the contribut

groupedly uniform as destrict lesses, etc. mempers of a stains, called RAI De. Phese mech here been mixed arms 1971 as the fleet genetic guilty provides a clear bookground against wheth as mastera research makes Heavyer Barrala Kahar and fiberta Austham, of the Lawwering of Woorseln at Madean decourage that some of the permis support from the Cervine Reve Develop Lisboratores carrie with drip guines Soils account that they aren't be model than

oughtreds researchers find ordered.

As a result of the foul up, some scientists complained they last their entire aspectmental output for the year. The breader pointed its finger back at the repearchers, saying they rever told Charlies.

In any event Charles fiver has destroyed entre colones of the possibly tarried muc, admiting that its bend leat plens for genetic purity among mice had gone extraordinarily agley.

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PLUSH FLIGHT The space shattle may have been an engineering and satisfaction and advantaged during its first free makens, bit, also, it was a bathyour fisse. The criting facts a cream had to contend with a lagh-tech \$3-million commode that refused to work. Its lagged and polluted the craw pathfers.

We have to report that shall see tomasts. Henry W heart shall and Thomas K. Medringh lest yet become the first shall command seen to be seen to the seen to the overlooked. The seen to the seen seeling to beauth. So the back to priving the back. So the back to priving the back. So the back or priving the seen of MSA regiment before their Biglt. Once noted, put the seed of MSA stages of hardstell and Marinay killowed the stages of the seed of MSA stages of A survey of jobs, new technology, and the world economy in the past millannium.

Curry the next 50 years an moreothic array of new both notices as accepted to move from the lab to the world of business. We are already seeing exposition of this today. Robots are

Microoreguene have become lobures in citicas. Befinishmes are beginning to manufacture batches of engineered from residence to find out where those changes are leading as the exhans of Chris ourseyed economic brends, interviewed the outsiry's nop lybries, pased over the massive amount of dails gathered by U.B. government agencies, such as the

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OUR FUTURE STOCK

BY THE EDITORS OF OMNI PHOTOGRAPH BY PETER ANGELO SIMON



same fervor and energy that characterized American nodustral expension in the disjoil of Vanderbilt. Carnegie. Morgan, and Rocketaler. These girrepeas of our aconomic future or taken from The Orine Fisture Attends, which was published last bill. LIFE STYLE 2001.

By the year 2001 most fewercoard will be relevant a fixed percent only and the property for their glarices this may hardly seem possible mostly because of our flag cours of board seems of U.S. because of our flag cours of their seems of their see

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five years ago were nonexident. These From the book This Orner Fisure Almanian and And by Robert West & 1967 by Orner Publications Makestoned Ltd. Published by Harmony Books. wolvers an understanding of scanning charge lethnical information and communications systems as well as an increased lethnical experient sits well as an increased classification of the control of the control of skills that once were well to business sits as well-and classifier fire spot weight or the automobile production line. The class highest main classifier the fell while on a laim will go the way of the steambeel pict and the bisecond.

and the biacosmit. The most sportfact that at years to come will be the wifit from formsoon type join factory with cheek lying it and programmed cerciol work to cheek lying it are group at many wind processing and display at the programming wind processing and display at the programming wind processing and display at the programming wind processing and processing wind with the processing wind with the processing wind in the processing wind recommendation and rebothes become more provided in the processing worker. Such insidence label-coller worker Such studience label-coller wind propers as General Montan and U.S. Steller.

6The underdeveloped Third World countries will spearhead a new industrial age with the same

 fervor and energy that characterized American industrial expansion

industrial expansion in the days of Carnegie 9

lones—a fact reflected in the people up employment toke in our industrial states. By contract office and service gloss will be abundant but only for froze prepared to improve their learning tidely. Again it will be automation that will displace many of

In fact, the ora of the peperless affice has altered begain it has been premoted by the principal developmentary completes that process because information and the explosure growth of telecommunities explosure growth of telecommunities resistant and groducts. This affice revolution not only has changed how work activate and information is changed how work in the finite from the control of weights and the function of weights and explosure excess in one of the formation of the control of weights and the formation of the control of the control

renng will arsuve that requests from senior employees receive priority response. The utune will bring still more possibilities. • Electronic meil A message is typed into a computer which instantly senior the let-

copies. The reopent gets the messageenhal on his screen of flexcy his preferwhen he asks his computer for the "mai." At first only internal coopposite messages will go electrone, but by 1900 high-speed computer advances will make office at-office electrone mail cost-effective consquently, the Postal Service will be forecast focompete Fasti-class mail may be mostly electrione by 2011.

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* Silectories blackbaierds Thase would be specially designed digitating outstoot that could be lammated onto just about overything states confessors-form walk or podiums These surfaces will display anything smallered on them—drawing chants or tool—for transmission to other blackboards.

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Broadcasting will become narrowissing. Their well always be trained but by the next century farmworkers as we know them will become the business of farming will become ever mine complex. With competenced operations and tobot harvestes there will be no need for undefiled labor. The farm will be a place for people with training a electrone for homes. In a

or engineers and computer programmers ing Indeed the human farmworker someday in may be simply the person with the phone with the maintain tobor separmen to the maintain tobor separmen

QLOBAL GROWTH 2001
It is just a matter of time before the econosisc loadership of the world changed hands. Already the United States the Sowal Lincot. Clanada, Wassem Europa, and even Japan heles to oppe with the problets infrarent in an econtrary easing intomiddle age. As a result by the year 2001.

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even export liaborers all over the world Unlike the natural resources of other nations which well be resemply depletion these of this vest country will be wrastly untrouched in 2001 and Onna could become a world economic leader with a 2.6 per

a word scorning respect with a very law of the cern projected growth size in ris GNP. It will indeed be thread of the rest of the world in the crucel field of energy than agents in sensithing other developed in those including the United States will find

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worse for parents like Ed and Janice Dems or Cathy Scott, who now watch with mounting smeety as their children grow. The young are paying for the mistakes of acuts. Scott says. What a triing we've done! We've possend as kids. DO



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INTERVIEW

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the brain needed external stimulation or it scacus-while the other school said. "No there are automatic oscillators in the brain sensory isolation experiment building a tank to reduce external styrrul-auditory The tank is highliproof and soundproof. The water in the tank is kept at ninety three to ninety four degrees. So you can't tell where if a neither hot nor cold. If the water were

thought was notif that the brain does not any sleep for a couple of mohas, but more You can have watery dreams study your dreams and with the help of LSD twentywalken required and failing down, or mu-Intrig your perception of external results. Owns. At the time you invented the tank Life Yes I invented a technique called an face of the brain itself without injuring brain it was the first method for taking electrical recordings from the brains of promestiothe brain waves moving across the perecloses over it. Then you can come back

Onn. Was this the same technique you used to map the brain's pain and pleasure systems with cirect electrical stimulation? Lifty. No. that receives nuttien alectordes bystemal systems. The electrodes were the these famous sludies conducted in the pleasure centers I And H E Rosvold of man who mapped both sides positive and negative and I went to a higher animal, the

When I did the experiments again in the CMN

databas. I found be could what his anary no. With his large, eighteen-hundred gram brain he had enough cerebral cortex to ert Heath have shown. Once when Heath was straubbing a cuberf a receive toportuggen and I'll out the electrodes out

Life: Yes, You need a cerebral cortex of a

67he Eleventh Commandment says, "Thou shalt not bore God." The first step in not baring God is to set up two appasing intellects, male and female?

Omy. What structures are implied in the brains pen and pleasure pathways Lify Well the preoptic ruckeus in the anin very negative. If it our main survival nueither directors in that area of the brain run into the sexual system, which in makes ther back in the mesencephalor. The fives The brain has other pleasure systems kind of continuous pleasure that doesn't peak-a ratur of mind. Sator and same

Zen Buddhism and Hindusm respecure and no organic climax—like tartho including Pasanali, the second century a c featiest form of yogs in this self-tranachieved this for days at a time If we can each expenserce at least the

lower levels of secon, there is hope that we mate life as we know if " Are altered states USV. Yes, the expensers of higher stroks

don't like the term aftered states-is the degruntled kantic history. Newborns are Lam written a book about alternate toal-

ual on Ways of Amusing God On vitamin They're the guys who run the earth and of clientised them. What is your mass proevolve to the next levels, to teach you, to

grams us in portain destructive directions regify then close my eyes, and the after called the flind eye which is certifally increased but me stereo. Exeithe mercino of our two eyes images. Perhaps someday, pamera-an alternate reality camera Green. What is no special about viteme K? Lifty, this a lot move from them I SD or any of and still walk around and talk to people oo do just about anything on K. I've been or don't really sleep, you don't really dream because you don't need to And on Kill can expenence the quantum residy. I can see Wheeler's hyperspace from within Otter: Can you explain what you mean by Life Whooler's hyperspace also is known as a horriscal resity. Each of a pair of mediately what the other is doing no matfer how tar away from each other they are yors-faster-than-light particles, carrying messages—but I prefer Bet's theorems perment fwhich flustrated a seemingly impossible consectedness between parto Light | Bell's theorem, hypertoace would by a region of hidden variables in which sapes to travel. The "hyperspace" with which I we been working is one in which I can sump from one universe to anotherfrom this result vito an alternate resulty—while cepts and memories. My center of coraccountriess is here and I can know im-

Onviv. What first inspired you to use paychotropic drugs? Lifty I never use the word drug, because and Drug Administration has been pulling out bulletins lasely about K, which is now cause abuse means literally passy from use. I prefer the term typeruse or Tro-K anyway because it gives me sonities vocated wholesale use of psychedelics. They are not for everyone. When Timpthy leary said. Turn on time in dron out only a self-selecting group ever treat LSD.

There were a lof of "LSD pushers" amount out LSD research at the NIMH when I was there in the Fifties, but I didn't sale LSD then. After about ten years in the tank I learned So I came out here to California where a lady I knew who had access to went through all the usual stuff poeing my Beethoven's Night Symphony I was kneelgets, just as I had in church when I was seven years old. On that top I did everyassethe next time. During my third lisp in the epistion bank in St. Thomas in 1964 I tances-dimensions that are inhuman Green The Ken Russell/Pacity Chavefoliv

film Albertd States closely resembles your Life I tink they did a good ob. The hair anything ever produced before I undertank scenes were line-except that in resi-

comes cosmic energy and his wife grabs Ton did that for me. As for the spiertist's Dr. Crisig Energht, who started me on Kieh is tack suddenly became 8 chimo sump ing up and down and hollowing for twenty five minutes. Watching him I was hight-

> Subjectivity is nonsense. The subject is an object is a

> subject. The only way to isolate subject and object is to cut off the feedback and destroy the system?

were vsu?" He stad. "I became a prohomfrwing to get me. So I was trying to scare him sway " I said "I' you do that again I I Omy! Can substances like K take one to lower as well as to higher states? Could Life. You give get into lower states-rock ness whatever if people do get stuck them sickence on staying in altered stopus, in spote them it can be rather crust Anyone who overvone's different Some achapphron

Omn Did Charetsky interview you briefly Lifty No. The manuscript of The Scientist "Paddy Chavelsky would like to read your sign?" I said. "Only if he calls me and asks

permission." He didn't call But he proba-Own UCLA psychologist and drug authority Ronald Sepel mentions that the chemical you call K can is mulate the pear. death expension proving that the neardeath-experience is halfuc nation rather than

What is your year? Life Ren and I totally disagree though I

law With his belief system—that those expenances are all wastebasket stuff-he is a curusta or atmen (spul) for each per any and so on. As mathematician/phice an Object consciousness was first-befrom the word every. When ponyocularies coming conscious of itself creation began Heisheld created time space energy matter male female-the whole tableau It all got so complicated that sneeky

must forgst about them when you come ously so you'll engage in sex have chil-Chique. There's always, they extrafer to the found myself toppped in a body I clich! was the sadness of reentry | lieft sousshed death of least force troop. While giving once used a hypodermic containing detergent foam residue, which sent you info a come Then during a period of proisneed K use, you nearly drowned and later you secously insued yourself in a becusto-suspides -- collisions with your brains

taking something and acting in a certain and so I've hypothesized that the brain contains lethal programs—self-destruct programs—below the level of awareness which LSD or K can release or strengthen. My accidents were need death learning experiences. There's nothing like them.

We also the control of the control o

state of ingh indifference. While my body was in the hospital and will be in the control of the

son to go book every time been a crucial court time. The has observably been a crucial courtainpoint to what you once described as the "starriese-sheel computer part of yourself in your records books you was sheared the importance of white you call the "Inde-fermied cyad." Will you please

the "male-ferrors dyalo was you pressed that the beautiful properties of the second that the second properties of the second that the second properties of the second that the second properties of the second tensile so that neither control that shall the second properties of the second that the second properties of the second properties of the second properties of the second that the second the second that the second that the second the second



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prounded and do the cardening, and take Orny. Was it really necessary for you to have the near-death expenences you've

Life it was for me it was necessary to highten the hall out of me, but many other to struggle as I did. I had a Catholic back-

Onny. What was it about a Catholic back ground that you had to "unlearn"? Life. The whole construct. Ed been taught by insh Josusta who are very clever. They made up multiple layers of remonality for the whole Califolic structure. The more than teaches you what to believe. So when you frowing over You can say Total believe in the Father Almighty" and communitation and the rest of it tossing out one tenet at

I believe in God but not in the "Catholic God, who is varigeful. There is the whole business about ouit I moure thoughts commands. One way this was solved for reading the "Grand Inquistor chapter of which Christ comes back to Earth. The Grand Incursion tells him. When we saw those markets in the street, we know you vousev oublioty. We're keeping you in this That just innoved the objects with our of me and by the time I was finished with was that belief system was pretty well

Oresi What about psychosnelysis as relgron? Both use the confessional an elabcrate rational system for structuring the inreponer transference and so or

Life Well I didn't get eto the religious aspects, as I was fortunate in having an anshat Robert Wantder who was twen of the doorse. He had been trained by Arma Freud in Vienne had a Ph.D in physics and was an applyof a smallest 1 book psychographytic would go anywhere with me Right of

practically in our first sensors. I told him I three wives | but that I thought I gouldn't if was in analysis. Where did you lesson ttersture "He said." Dr. Lifty we are not here to analyze Freud, prochoecolytic fehaveor. We are here to analyze you

Omst. How is if that, trained for eight years Lify. I'd already had enough neurophysplogical transports know there were a lo psychoenelytic theory accounts for about one tenth of one percent of what opes or

A human being is a beorobol with a biocomputer in a the brain But we are no essence whebits us, and under acid under K under aneathesia, voull find that the with people in consensus reality Gees in your expenence, does the brain

sou? For example neuroscientist Arnold Mandel, of the University of California at as LSD can be pharmacologic bridges to transpendence

for withmin K-set up the chemical config uration of your brain so as to loosen the the soul essence. Then the essence can move into alternate realities I call this phee lot of ideas about the soul's location in the body of course to Specially when you're is in your mouth-you have at aline as le computer and the essence is not localized ake body an estral body, which can wak through walls. Your essence is repre-

Supposed that your ponyconuments effering have impaired your sudgment. How would

Lifty Well. I'd use throw my crementals of them and I'd ask them to sit down and read my papers. Only narrow-minded band people who can move easily across been educated to respect the supersor ence of the next century that their brugs healers] are capable of calling up. My son John Lify Jr. who has lived for appren wash derful movie about these matters. Our or friodoxy on the other hand is very Ger-

lough it or taste if it doesn't exist I was brought up to divide science into



"Sooner or later he'll learn that when he presses the bar, he'll receive a salary

really three departments to science es-

Own How would you answer the charge Life. Subjectivity is nonsense. Neither sub-

purnals anymore. I depend on my friends can model only a smaller computer it can-

Own is it an extension of Godel's theo-

Omy: Could you elaborate on your con

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stars. Vital God screatly the next least up

Lify 'Inmy new book I have a theory called genoe in if. So He made a dust bowl out level, each particle is as melligent as a

equally intelligent, and greater asserts

Quest How would 6 differ from ours? Life Both How would r? DC

GAMES

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Andrew Thomson Melbourne Australia

rane and aluminum or steel to determine whether samples made in space are strong Brian 780cson is graduate enident in electrical engineering in Seattle Washing

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vor of wine and cheese, the transs of a flute

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Well make one other expectors an hor

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INSIGHT... Of Inner Vision

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BY BEN BOVA -

Rebert McCrail or an expensional to the Curue Since childhood, he has been lacentated with the dechology of perrol flight, and its peerings show the clushity improcably detailed self-indicage at the certail cours of the self-interrupe provides by the lock of the certail cours of the self-interrupe provides by the lock of the certail cours of the self-interrupe provides by the lock of the certail or self-interrupe childhood in the source is governed by the certail cours of the self-interrupe certail by the certail cours of the self-interrupe certail by the flow (Hasy N. Alcones), McCall's pointings serve as a flaceting of become who shoots optimize the certail cours of the self-interrupe certail and extend-interrupe certail certail cours of the self-interrupe certail c











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€ it's fun dreaming up strange, out-of-this-world vehicles and alien landscapes 9

 Intelligent aliens
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UFO UPDATE

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MEDEA

contractor numerous more varieties paid the district hundred less up a cooky hill, where an observation part and been set up. There were servation port had been set up. There were sensors in the bases wildage. Classivation was both diseast and through computer in-pily, and covered them as thoroughly as the eye of God firms through I fall of him. I have been set to be a contraction of the eye of God firms through I fall of him. I have been set to be a contract to the eye of God firms through I fall of him. I have don't be good. Therefore, the eye of the ey

In sept was in the controller in controller in the controller in t

wa kill nothing here he taso i mu charge in the guns is for sain only. The fence is on abun. We want to stop them, not harm them. Can you fly? He taught her to manage the arcars and free want for to want her the beauty of the

he saying not be made and the first based on the first search of the based on the first based on the first search of the makes of the made to be cold managed the areas competently, that shak know what to book for flavy of the machinery mediumboned, he resumed he own pursuas. Day after dig yet of the made the search of the made the small care and did not eatinful for many hours. He was maked made to the mage the search he was fastered the property of the search of the many the search of the searc

So see what there was to see
After nestroom ples to resew the work.
After nestroom ples to resew the work.
Chilwin Lind paid no attention to Irris.
The days pessed slowly, and guidally
fare began to realize that the was what
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propose. White side was to chiler Lind
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through a tape of one of the lease CRI Min-Lihad tagged years ago.
The creature was immature the size of a half-grown cost in the diepht leigs and moved so test that, played back in red time, is movimental were blaned pass comprehension. She played in back slower and dower until each motion was visible. It was catching reacts and small prusiblesers.

harms surgeon used her hands. For a time from played bear bits of the for a for another but their shall statuted over marilled the computers stown her the bits first Dri on Li hoot tagged as eignificant. This ce nearly grant wellwrig a bolder duckhijf and savely, with titler wasted modern from the certificiant player, with titler wasted modern bearing another than the computer of the certification of the

'At first we thought there were three species closely related of ocurse. Oh ion L is voce said ofose to lima's ear Irina had no

does how boilg the vortical had been standing bahard her. But then we neaked that
each infearmorphouse into the next place
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but the dide women motioned her to a long
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> 6The men turned into foxes, and they dipped their tails into the water and then began

chewing them off, consuming themselves until only the

until only the heads and necks remained ?

young tendes in the missey White they omege the passes problemed by the property of the proper

came lower, and sine spored he has houghtfully which be have propagate. Only a few out of each function server to reach this place. They are neither male not female, but have schward the site grozon of the he salvist. They have on paramotic every place that spores produced hough they select provide and hough they select provide purpose teachers depole product. All the reteachers depole products will be selected to the product of the selected of the products of the selected the selected of the selected the selected of the selected of the selected of the selected the

Ivad beyond filtern years!
She stopped inna remailbard her he and litted the cap to the lips. Somethings are to stand the cap to the lips. Somethings are too small, it has each shally. The brown pairs sho small. They are too short-fixed. How could they have softwared intalligation in a litter and the shall be something the something of the shall be sha

Chief II shrugged her see as above as aperted service. They could not have done it also said "However it they are not intelligent, then they have the most advanced instructed social behavior of any group ever observed Either way we must swith a many books. I must rewrite many books, after amended.

books, this arrended Imatable of her how cid was she? Over a hundred, boo old ever to return to show to boo old protectly to finish her work here, and yet day that hat work an old here, and yet day that hat work an own how the looks of the control of the looks of the control of the power that dock with three- or four-hour passes for sleep. What was driving her? What held together threat first bornes, kept the book of lowing kept her can fundering? This one little puzzle about this fower first owder how believe it was that simple.

that easily answered

"What are my duried?" she saked Chiles
Li 1 have been subset by Pick for weeks
now. Sussily I am not to serve here as a
hardess maintenance cereor and reviewed.

China Lamidad goety at the "Reway erruch by gours first." sha said: "11-6 all mees the base stagged on hurdred if a lamines whe base stagged on hurdred if a first may all in the seam outstandly many mise from base (Dries) had with the group and two years and began a powing that is part two years and began as having that have an approxy. We will follow until see lower (But and they move again the day lower (But and they move again the day lower) belief to be until year of ward that is the harded point of any exacting the said of the said of the said of the part of the said of the said of the part of the said of said said of said said of said said

Indee draw as exercing (Boths as Introduce). The second of the Colonial Lind withdrawn to the result of the Colonial Lind withdrawn to the result of the Colonial Lind withdrawn to the result of the Colonial Lind withdrawn to the colonial capacity of the Colonial Lind withdrawn to the colonial capacity of the Colonial Lind withdrawn to the Colonial Colo

and fat beld men. I see you watching a furry animal facking away." At least, she thought showing the pup into the receptable that whisked it away. She drummed her finders on the table and then went searching for Pick She firally found him working in the marke-What are you making?

He chucked There's stweve some-

Critan Li saya you go to Medea Town every two months or so for supplies. Are

You got any shopping to do make a You could bring arough supplies for a

year at a time if you wanted to. She bit her ip when he turned his back on her. Then Brandy You won't need to go to town

to get drunk. You go for a woman don't Rick took up another section of the fubna working it with his hands. He did not look at her "Aze you cellson horny? He whomped with laugher and Irina found

slayed only three days and when he returned the announced that he had brought

low cave near the observation perchi here there was yet another computer terminal Li set on a quation, watching the loves below She was the a bat Irna thought clinging to a dark spot.
"They aren't mating." Inna said. Thave

reviewed them since they laft the city, and We do not know." Chien Li murmuned

And the young males don't make forsys, they aren trighting among themselves Chilen Li nedded Kuwat a having success in making contact with them. Iring said after a long

growls it is language not random

motorress. The neuter was inside a shelter made of smooth poles, covered with



THESE MEN can tell exactly what's happening inside every barrel in a Jack Daniel's warehouse. In the heat of summer the whiskey is expanding into the charred inner wood of the barrel Come Halloween, it's starting to cool. And inching its way back toward the center. Over the aging

period, this gentle circulation of whiskey is going on constantly. Of course, it can't be perceived by the human eye. But after a sip of lack Daniel's, we believe you'll recognize

its importance.



MELLOWED DROP BY DROP

Tennessee Whiskey - 90 Proof - Distilled and Bottled by Jack Deniel Distillary Lott Mation, Prop., Inc., Lynchbury (Pag. 36)), Transpage 37352 Placed in the National Register of Historic Risces by the United States Government

skins. There was no motion below no sound now although at any moment they might begin to move again it it was a dance it appeared too random. As one they would leep over and over or walk zombielios in no departable pattern wherever their feet took them furning when the spirit moved up for minutes, sometimes hours, somewas as abruptly as when they began "They know we're here." Inne said. "In times, and you repulsed them Why? This is the way you observe anmals not intel-

igent beings. They have language. We a merely arenal behavior technique ngicl waiting for the rebuilt.

Who am? "Chilen Lisaed questy." Chilen Scientist Anthropologist Ancient hymen being Earthling Leader Mother Sister Dauchter, Auct Water Tractor Ferrale camon eater Tea dhinker Without context

the question has no menano. Without a

She regarded Inna calmly "Until very recenthrive did not even know the four-leaged an entire life sown without succumbing to can creatures with such small brains demouth Mychild "Chilen Li said softly Theve because of their active participation in the very effects they were studying? I rewatch the toxes. I erected a barner they carnot cross, and I keep myself alcol from done my best not to interlese with their lives.

And I have felt the temble trustration of screen stepped out into the dim red haht started down the hillade in delest Overhead, high above the updrafts of

Sometimes a flock of birds or other flying animals appeared attacked the tores, who

no longer tought back, but simply retired Sometimes the flying creatures made swooping halfhearted attacks agranst the

linna was having many dreams in almost a flowing green gown, and stood at the colden coblets held by multipudes of na-

down valleys up mountains, over chasms unable to run any longer she flung herself to the ground and before her eyes there

They marched very fast, almost at a run, and when they

reached a high point where the valley began to rise, the forward foxes.

snared up into the air

was an encient fox standing upmoht its finity. She was sucked toward the even which grew larger and larger and finally She sat upright in bed breathers with fear Awake now she left something his had deintegrated without werning. With out it that mysterious something, she was

Sharong hans, she left her hed and group room, where she found Pick and There is an emergency. Chien Li said,

her quet tone modising her words. We are where she and Pick were seated. "You have ted dwares "she said soffly." am sorry Our other sensors the ones we instylind at the fox city, have mallunchaned rible storm, an inlend hurricane that brought

great tides to the lake and sent mountain flood rivers into the valley. The city could have been swept away ordinals, or perhaps "And the other loses that you tagged?" They are no longer transmitting

Chien Li nodded "Twenty-two wars of work, with only this one left to prove or disprove anything? Her

cup clattered to the table and she clenched she thought suddenly. She would find a now city, or colony, whatever they were "We are trying to decide if Pick should

"Till find it." Pick said. He was watching Heave Chien Li made a cacking sound

"What do you mean? Irris demanded I checked up on you the day you col here. Pick said "I didn't trust you five wanted to ask from the beginning. Who are to come to Medea? On en Li's work doesn't

mean a damp thing to you peoted expenses and guaranteed persace home after live years. I couldn't call passage and a salary. She was funcus that he could have been her bedmate all Chien Lis eyes gittered and a smile

a hundred years. It will be a fortune. I see You see nothing! Inna unacond "Afora pality fortune last if every day you have anyone with a functioning brain? By day bling for those who can afford it. For peochawing her away from this place away not even that much available. Within ten

Sitt the ashes once more rewrite the books be a pewbrity for a short time, and during ings and I'll return to Medee, And I'l be a Conesus! What a new you'll be dead, my dear Pick, but there will be others. Maybe

Pick's great bands clenched Inna rested

one of her hands on her charger. "I would just as soon use if on you as any other wild creature here." she said. They stared at each other until there was a tant sound from Other Lt. It may also sed.

They stated at each other until there was a tant sound from Chine IL. Inne glacood ot her. The old woman was laughing. The is alread that if all the other tagged fows are dead, any accident here could bring an abrupt end to cur years of work. Financing to start over would be difficult." Inne cased at Pick in disbellet "You think loculd subolege valuable insearch."

"You haven I exactly kept it is scored that you don't think this is the way, that you don't think this is programmed." You will prepare to level as soon as symbol. "You will prepare to level as soon as possible, is the sed with lineality to Plot. "Take the big con." The scorms may alth be very bed."
What if there is problet that I can ease?"

Should itry to save any of the tagged ones if they are still alve?

"You do nothing." Chilen Li said flatty.

In the beginning Officer L that flagged all the unusual behavior but gradually is program had been developed for the coherent to the control of the beam induced the control of the beam induced the control of the beam induced the control of the co

waterstead the learns are slaged, thereind their rings, and went hough their distance. In a shad not end year love much alsh shad and a shad not end year love much alsh shad are year of their outing. They shad not falled very much but he had necessited his ensepared shad their shad and he had not expecticed from their 50 their, and he had not eight and the frod, send in that slearly single in the consignation had possible in sud present in sud present on the shad before in very good learns and their shad and shad their shad and shad their shad in the shad before in very good learns and their shad and their shad possible shad possible shad possible to a few shad to the shad before in very good learns and their shad and their shad possible shad and their shad and

well an in include of well-double between the control of the contr

fallon asleep with her eyes open

"fillige to the observation overlook." My oried you are so restricts You have been up these three three three soday." Off sin Lituries of the consiste she was studying and turned or egard firm. "Haveyou read my book on the shrifacts we found on Marz." I finish noticed. "You gooded threy were

good from neckdod "You decided they were look of the property". "You And they were you to be there. I think to close to home you could nee that so close to home you could nee that seeing it knowing how close it was it was seen you had alto public seen I wonder if our distant could well used."

a saming a visioning row color in wis. I was defined as all four has disposed in the amother interest weeks. I wonderful our distant document while the later hand be and obtained while the sensative hand obtain fool the saming an unexpected freedom from something, an unexpected freedom from something and unexpected freedom from something and unexpected freedom from something and something an

Chien Li sed 1 was bonad
 Sirves felt a joilt
 when she saw Chien Li, who
 was a legendary

figure on Earth. She was no too larger than a ten-year old child, her face was bone-white.

was bone-white si She looked as old as death did.

with refracting the auther work offeren had done quate broughly How I longed for a new children on the universal as whole may people to unmodels. And we had to go to Mains to find them. Only 30 find that thoy had not been from Mars at all This need for whall is new for the undercovered. If morely another instruction after all? Or is a merely another instruction behavior pattern? Where is the boundary of the highest instellational order. The highest instellational order. Every waverd

possible was bestored on you No can were doubted by a moment the magnicence of your decoration. Chief is become Chief is loaded in the for a moment them should be headd. I mode a guest that for the grow Heady sensetts. Estably if second Heady sensetts. Estably if second Heady sensetts. Estably if second Heady sensetts. Estably these head become he based of my can have been been as the control of the guest evaluations in unit to the And the reparation? set asked and of second with the control of the senset as the rest. I work them to also in the same as the rest. I work them to also in the

hosest not merely instructual prestures. It

a new pottermont searching for a normal, when they will have a lighter significance in their behavior than smaller migration. She never made greaters when it is poole and hat has seaton bodene annuated but now as seaton became annuated but now have of pottered norm. Then guide child, by child. Anyone if Medica. Thom will fell you the same. I am so determined the will more only will on these creations and migration and impose my will out these contents are a first impose my will out these creations.

face them ello significance." Pick's violo interrupted the conversation. "Here is at," he see the soundair very rear. On the monitor there appealed in scene of desolation. Floodwaters shill swelfed throughout at valley but there issue indicating that the value had been much higher than two now Newtern was there as agrin of a building unit the claims of the base and there is solarily deeling, remained. They appeared saurally build on sound and store. The cateries are sopped.

a small group of toxes of mixed ages who were digging with metal tools in the rubble. "The nauters?" Chilen Li acked. "No trace. I think there are lever than five hypoted survivors, and many of them.

have left this area, dragging a few possessors along with them.
Of left I was select her reaction was that of deleast, lens instituted not knowing except why. The old woman sagged now for foce coved in her eyes duffed. It was not foreseetable. They and with

some force. The storm sure But no one outdo have known there would be a rock side high purither mountains. The stote caused a Bash Bood when a live was dumped. That's what happared here. It wasn't just the storm."
"You wan outdoor?" New kis had come for "You wan outdoor?" New kis had come for

Chien Lis voice Her back was shaight again. She leaned forward in her char No mistake about it "Gome home Pick Come home You changes a set."

"Gome home Pick Come home You desures a seal."

Why is a important that they were award of the approaching storm?" Invalidation of the proproaching storm?" Invalidation of the seal of the common seal o

That right hims was occased from allow by the beep-beep of the forming and when she got to the group room. Chille Li was respect to the properties of the first and all continued to the street of the first him and continued to the street of the first and the street of the street was a shallow before it had been in introduced. The next phase has started? Chile Li and, and he wocke betrayed assistanced. The topos had formed two lifes and worm and the street of the widely in the other of madeling code if the widely in the other of

Q: What is the hardest thing in the world? A: Tearing yourself away from an EPYX game. Nobody but nobody builds more lasting



playing value into their computer games than EPYX. EPYX-computer games thinkers play

EPYX-producers of award-winning games fincluding "Crush, Crumble and Chomp", "Dragon's Eye"; "Temple of Apshal", an dozens of other thinking games.) For Atari, Apple.* Commodore.* Radio Shack,* and IRM* presonal computers EPYX-the leader in computer game quality. creativity, innovation. You will love them all.

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sounded by a dozen young make Many been removed. They marched very fast. almost at a run, and when they reached a her into it. There must be something you the forward fixes males and females. High above the entire group gastrags

carted as if in curcuity defying the prevoling winds, to maintain a second level You must follow them ! Other Li said Keep them under observation in the small car. We stust not lose any part of their youryou Bo now Get dressed III start dis-

Inns could not dany the small feeling of satisfaction the old women's words gave peters. He had grunted and had gone on to other lessons without comment. She norticed and started to leave the group Chien Li diutch the table as she nassed it

OMN

test Iran assumed that Okion II had What is it? She went back to Chien Li

Inna san to her room found the hypo and can back. She assembled the manyment if held a promosoured dose. Workme swifty now she depressed for button kneeled on the floor by Chilon Li and held the old woman in hor aims while they worked

"It dopen't matter I became excited and forgot to take my medicine. I am somy Her voice regained its lamness as sho har eyes were give egain and as if to prove

sha had bely seconded, she now pushed she spoke again. 'Go get your things tonext two or three days. We should catch layed you should be prepared. We will

else with us I can I leave you slone!

Www.will.do.as I say! Report for mitruemention this. When inne shook her head. Chien Li said. Yery well. When Pick returns tell him I amkeeping the foxes under Modea Town in the other small par

she could see There were scattered misshapen shrubs or cactuality plants that You will not mention this Chien Li said and nothing alive decept the double colness and above them scaling taxes and above them other flying greatures that would be altogether different and finally above meany of the roots were really rook to more openings that would come alrea and move with starting assa to capture pray some of the bushes were not septiate some of the bushes were not septiate some text a count of space and roots or the starting of the septiate some text a count of space and roots all where pray approached from dismessed the dampers on the ground and concernance on the basis. They uncernelly assetted any confirmation and markethood a shooty for even

concernance on the basis.
They unempty avoided any confirmation and martinaria a shooty lot. even to the control of the confirmation and the confirmation and the confirmation are placed it was consisted with appendix on mother factors with obey and their against this against the scenario and their against the confirmation and their throught of them as beautiful before, but call here is done with the description of their confirmation and their throught of them as the confirmation and their throught of their and their throught of their confirmation and their submitted as decirated with the confirmation and their submitted of their through more market through their confirmation and the submitted of their submitted to logit the found their submitted of their submitted to the confirmation and the submitted of their submitted to the confirmation and the submitted of their submitted through more market through the confirmation and the submitted of the submitted through the confirmation and the submitted of the submitted through the confirmation and the submitted through the submitted through the confirmation and through the confirmation and the submitted through the confirmation and through the confirmation and the submitted through the confirmation and the submitted through the confirmation and the submitted through the submitted through the confirmation and through the confirmation a

brinos was instantancios. In rippin or a dejo or a subciden statines or relexation Tiesy were scarring, singing, mering music that no living operative cheri harintizes pertorming would ever hear. When this looks alongely hatted and be gain making preparations for a sest personal and was estated. It had seemed out it low has been already to be a labely men house tred posted. She had list extreme of histogic until alto seek the ground with the electric charge, wasted until three lock demons listande out on the lock demons listande out of logical and seek.

rock demons flashed out of sight, and set fled the cair. She hand of online electric cur ian i and only then fell her aching muscles and her throbbing years. She become easily again of the bowling wind feet rocked the car from time is a time. The flower encoded wedge-shaped shelf sets, the openings away from the weld and they varietied inside, the openings away from the weld and they ware find a date.

the interpretation without violation. They were guardia, the bold heavest territy and a ten stretched and to may write she accould the bedging of the computer and new site was fully wearer of her begging of she pulled herself up and workhalf in disabetive write the frome look down the shelters and persistence of the shelters and the shelters and for many than the shelters and the shelters and for many the shelters and the shelters and and were resided to go a gain.

The force moved sheally accorded the rockoriental. He presudo-bushes and other objects that first Saggod to statistical later to the statistic statistic statistic statistics. It was also to the statistic statistic statistics and period they had cooker, but off the repersod they had cooker, while they were on the move they neither at one chank any hing. They did not passes, or stow down or because of the observations they excessive of the statistics of the observations and the statistics of the statistics of the countries of the statistics of the statistics.

oppore wind haaling the carts across and then ook delock deloc

The rotion of the small or was a dark three of the small or three of the small of \$2 she that he is part of \$2 sh

carts and took to the air to side on the

with these a pein bother of 9 the far have indeed to become or or the other arise they. The influsive of the wind increased, now the face was co-boxed systiffering low the constant whippering of wind and a character of the constant whippering of wind and a character of the constant whippering of wind and a character of the constant whippering of wind and a low both or influsive seath ogth. In the constant which or the constant which or

d periods—four of the possibly six—land shift to longer serviewed the missibility in companie but set diogeged yet the common but set diogeged yet the common which is with the set of the common set of the commo

siste of a hill they had just climbed but generally manny jurised. The radiance showed mastelans, they were not visible to her unauded eyes. Personal to and at one point she learned her. Pick jud of the radiance and they would have to her will be meet her. They would have to not her way to meet her. They would have to not her signed, here was nothing after should be

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ing about spackly to make certain no one was there to stop him, the suppad most his pessage and eith the door.

A blast of hot ar shock her, and the wind shrelded in hor cars. She staggered back straking waterity, and stemmed the door of the arcsis. She humbed to the opticipant saw that she had landed the cars on a fallered. The faces were all on bor of now.

UNLOCK THE MY/TERIE/ OF YOUR MIND

DISCOVER SELF MASTERY WITHOUT SELF SACRIFICE

Was SCML Suitement Traderupes you cur go haven by your greaters respectations on his many your greaters respectations followed paths your sized cleaned grain your great cleaned grain your great that you have been been controlled to the controlled grain of these rate between Common and woman and woman been put with a few Ways Secures control your property of the controlled grain and woman been put with a few Ways Secures control or sold and with the controlled grain and woman been put with a few Ways Secures controlled grain and woman been put with a few Ways Secure Secure Secure Parkets and woman been put with a few Ways Secure Sec

leting new thoughts investions and reprise fong class. With SCHIL Techniques you exert serv liberal. Fav minit, dreate its supprise your whites ability and recall of more!

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with your FREE title
Some

ing, she lifted and moved forward, and only

was taking she knew and found no con-

crosspurrents of wind caused unpredict but the rocky peaks wind soulptures in sione and down the slopes, swelling sand Pick and Chien Is caucht up with her

the voices insisting, insisting, but she could beeper sounded she told herself the voices

When he said, studying her 'Come

sedative was still in control

was anything alse to do When Pick took

She needed no more sleep, she prothe rear of the car, where bedding was roleased from the well is curtain partition was diese, the first time since the had left the carno and tucked her into the extent which

You were a creat comfort to me my trust you, and now Pick knows it also I click the unparticipation I simply instead of worktring could no longer keep her eyes open

zen, and up here there were no more plateaus no more flat places for the car to

then enacted into a vortex that sucked if Pigk turned to Chilen Li, wested. She was

into was scarring the mountain slowly. we get to that hollow? Pick and Chiefi Li looked "If we can anchor the car there in

 As one, they would rise and start dashing here and there, or

leap over and over, or no discernible pattern turning wherever

the spirit moved them 9

While Pick slept Inna and Chien Li shared duties. There was little to do now farthfully recording every tortured step-up

When did you decide to apply for Medea service? Chien Li asked Everythen out public importance is in the dossier everything but the interesting parts. When? hine shrugged. I don't mind I was in

Africa studying with Raoul Claude I wisk rhythmical caderioes rather from the words was nothing new in our work. That he was work he accused me of resvete and vouts' enough to believe there was more than we

to the same university I had interested stop me. He turned in a bad report, but it

I still don't know effich is true "The first, Chien Li said "There is a home and trembled at the thought of the selfsh. Little changes except the means: knowledge that knowledge for its own sake

verted the whole miracle of language in She looked at the corecte and watched slones inching their way now with agongsymbolic mysticism. Whatever it is they will

the oldest? A religious ceremony? A perightave done below more easily and more guage and put the question to them, no

manons are clear and ample she said activ as I choose do exactly what I want

to steep time was still thinking about the Security and intellectual explorations. I'm point out Pick said suddenly

less movements within the confines of the car but she had paid no attention. She tably, but it was children to by to relieve to

Pick hung a small hammer on his bett as he exempted the rock well that made

for the job shie had occrined. She stiffened watching the console Something new was happening finally. The trade were shapping Here and there come had found places when they ocald at or succh safety and they were not moving. Others were stiff searching, climbing, and when new ones found roots they slopped when new ones found roots they slopped when new ones found roots it they slopped.

In an electrical Circuit I would want to how but falled didn't not all mergin they would be stated to the control of the contr

She boll Pick of the losse new activity and together hey went to the end of the coul die sac that protected them and wasthed the foxes Dirly one continued to circh row, the old neuter as the nest sact taid thamselves in nuclear and on ledges. When this you're the market of the care to the country of the most of the product of the care of the product of the care of the care of the country of the product of the care of the c

to awaren Chiarri Li.
Now the three of them stood outside to watch the neuter make the final ascent of the mountain. They water high among pernodes free and the last denth was similed and the stood of the stood of

generally represent the control of the property of the representation of the process of the control of the process of the control of the process of the control of the cont

A gasseg care in lower than the citie is if was swept past the peak it, whipp out in tertacle and caught hold, and let same manned the bag defauld. It steam up and leway from the peak like a perma but now the creature was anchosed is carely. The neutre continued its labour offers in waster.

Camb spead in a how savege was Not now you bestand Often in the lowlands a gisbag lifted a



sand level, and then charppeold, level the forploided to laid no long, sweeping joyn delimatic hende clenched at her suder. Rich owe she exclosed The for climited it was within an arms longin of the tentacles. Suddenly in a bitur of fishing limble and whoping loniquides the guidang season the for and released this own hold on the righgod rook. Its bag was netarrily infilled and it was sweep in and out of legisland.

In started sterior by the humans in sturred sterior by the humans in sturred sterior by the humans in sturred sterior by the humans in the toward start sturred sterior humans in the toward start sturred start started start started start started start started start started start started start

cover, het shoulder sagging i ma oeker from het in Pick, with alles staring at this arripht peak. She followed Chien Li. I nade the oer Chien Li set drown and looked blankly at the floor i min glatmod at the correct them looked blander frowing. The tagged for was still registering still sang in the art high over the mountain but even as the washed the dot of light was presented in the present at the presentation becomes a horse netwer of the presentation becomes a horse network of the presentation becomes a horse to extend the presentation becomes a horse to the presentation becomes a horse to the presentation becomes a horse to present the presentation of presenta

spreading, becoming a haze instead of the startice point it had been "Look!" she cried then. "What's hap people in it?"

pointing to E?

To his List may be the able and together. The hash been been began, the shape the name that the name that the name to t

streets of light in all directions. Then it was all gone the screen was blank. Now the lowes moved. They began to leave the mountaintip.

Into all down hard and when she booked.

of range of the sensors, one screen after another was left with only rocks and blowing sand to show when they had been Pox left to collect the sensors and of the woman had meand while he will

Pick lat to collect the sensors. Neither of the women had moved while he wisk gone. "Going down will be easier than coming up," he said.

"New York". Chen I u said "We can she wanted been labor. They will rest as soon as they each their labor. They will rest as soon as they each their last caury.

The rentaming shown with a lost in more went blank. Pick stands of all the considerable labor. They will have stood up and serior outside limit began to select their labor. They will not select the select outside limit began to select the labor. They will have been as the labor that speed against the wind at course as the lab blink is upon against the wind at course in eyes as soon as it was conventionable.

upward ir vanished inside the gasteq, and the bog whissed out of agift. Provining the played through mother tape, has sime one into showed the ally with the other gastebage fashing in and out of many than a many amendated assemble from any three participations of the same three participations and the same participation of the sa

widty for a few seconds, men streamed away inns played it over again. Satisfied analy she want sulfieds and joined Chilen Li at the end of the cuil do sac. The flox went deliberately "she said.

li know
"It wasn't dangling not the way they
usually do when the gasbags take them
up for a ride. It was easen or absorbed or

something
Chien Li nocided, as if also had known
fast also
That swhat they came up here for wesn't
47 That seked Tora a second

€A blast of hot air shook her, and the wind shrieked in

- back, shaking violently, and stammed the door She hurried to the controls 9

For what purpose? the old woman murround "Aways there is purpose beland a sacrifice. To make crops grow, to ouest avolation to still the storms. For what

I don tinow I maised. We don throw enough. Why did the chief gelstage come? What aid the next of them get out of 6? Why didn't they all gists a too? They were werting. Just as the other loves were wisted. Then they all wint away, just like the loves. What do your man?

herplessity I don't evan know if if could recan anything.

But you intuit that it does Yes. We will

But you intuit that it does "No We will look at the tapes again."

"It doesn't mean a darm thing!" Pick willed. "Tall har it doesn't mean anything.

This shock her head. They were all outside and Chlin Lit was paged slowly ten pages, surring at the rock well-in pages. One hand cradied the other bashod her back, her head was beed in thought. She's sick. She made me promise not to tell you. The state "See Jain talk her not

leaving. When she did not respond his parked her secured. Do is or 11 had her inside life a load of laundry and strop her down and take off. Tell her we're out of water that you've suck anything. The wint go She doesn't have time to.

start over don't you see? So close, to come this close.

It was a goodamn failure! That creature is dead? There is nothing up have for har now. He becam to shallowher.

now he began to shake her He was very ling/tened, she realized "You do understand" she ched softly "You know she car'll leave here yet "I understand all right" he said say-

"I uncleasand all right he said cavagely "You went her to the! You've hilded at this, her, this project You made it clear cough! When she's gone, you'll be able to go over to Kuwar or Corum. That is what you've been after from the start Dhy you.

wont got it his way!

She weenched away from him, and he toftowed his face close to here. "You can't daily how you've nated her!"

She shock her head Halad? Loved? Both neether They did not apply Words.

Sich mether They did not apply Words had become useless. There was nothing she could say to Pick nothing she could say to Chiam Li, nothing she could say to harself, this would make any sense. Do you know what har name means? she whatpered. Pick (colors startled and way. Timeans the Creative, and Pier. This, is

way Immarts the Loodands and refer the test what she is rived in the commission of and dischoys and illuminates and permit and dischoys and illuminates and permit her creative to execut file a last on the choice her name when she rotuned to Chima se a student. But have the cost and the dam get "but cent take it sawy from her now No one can "She furned way from him and webched Chilents, passeng ren power. Pers brought her long the proper Pers brought her long the passeng Pers brought her long the proper person to control the proper person to the proper person to the person person to the person person to the person perso

acciner cup to Chron Li, who seemed unwaves of him until hetrouthad har arm, and then she stangared slightly. He led her to a took and after cat down on it is expeliation and a standard store, and a standard to iman. He is shunded store, Chron Li and seeted on the rock her les beside her appearerly (spottan).

Hours passed into and Pick sat on the ground side by side, witabling the old worms who had resumed passing. How can she keep stop? I first mought duly She pickup the word on the properties of the strength or move har musicles? To keep blood in unround?

cut closing her eyes or slumping. She left discreeded and for a moment pould not show the she was a control to the start she realized that Chien Li was no longer there. She jorked, and beade hat flick roused.

"What ?" He pulled himself up, dragging her up also "Look!" Chian Luwas dimbing the wall at the faand Almedy the wind we who one at her

Above her was a lector with another asonly enough space to stand, none to move about in When Chiers Li reached it she again. Maybe she had had another attack.

unstelding on p Neither moved poem in the wind and was snapping about her face unwinding. Slowly she got to her feet. she had to move to one side to care to a

A greated firehed into view, snepped out a terracia, and caucht the same took Chien. move. Then she reached outher free hand. hand was taken, and she was litted. The bac inflated and it rose so tast it was in

inna closed her eyes against a blinding swelling, growing every event of her a life was appearable identified agreed ex-

minopriss and there were snowing lights impossible note faded, there were other She lived a lifetime many lifetimes, and with pain that was pleasure beyond endurance. Everything became brighter umi-

had known of joy, every theil she had known this new kind of coupling, reached its camax. When she flow apart, each part was

under her, sat up Pick was starting to move, by log had drawn into a ball on the ground. He stood, looking around his face half-hidden behind his mask. He reached a hand towers

They wert back to the array wrhoul speeking hand in hand Swally Pick did the checkouts before With her mind's eye irns gimpsed an

of low growth, some hills in the far deimage and the thought were Chren Li's but also hers now The image vielded moved ande when she willed it. These evens examination but later. She smiled as she thought of the gasbage trying to trake sense of the new images they had sud-

said. Pick laughed and she laughed also

"Imnot ready yet either "Pick said easly The car lumbed in an eddy, and when feet it. She could almost see the years as mileposts along the line that stretched

They lifted and were bulleted by the wind instantly A gasbag speci by "I wonder whether we could tag one of them. Inng. Pick he was smiling also DO



Sometimes they try to do too much!

The Discweeter tage care philoscony two specific problems to-

The Documentor ® Partect Portion is designed to thoroughly clean tage The thorwasher # C P R was sing topyyear cassatto deck pravating tapes from bosso cater

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HIDDEN MONSTERS

The quest for apemen, aquatic cows, dinosaurs, and a grant tentacled beast BY KAREN EHRLICH AND LEE SPEIGEL

T

be gygnes braved much chaked gaths, venomous prosess and graften to reach the glacid shore of Lider Tells. Surrounded by additirounded burs, the laked kelly without a rippie in the sun. At the water is edge, sand emercial cutarriles, the pygnes is unched their tree-truck canoos. If they were Lively, they would custo beatleads of langiter.

were budy, they would could bookloods of langifers and point by duckey duct soft to miner of the lates, Tarry footbed bleeky duct soft to miner of the lates, readying shelf stangle less and but whos suddery to the lates of the lates of the lates of the look right months: who swalling as pack of the look right months: who swalling talls, sendable noots, and desting registers heads. Downwood they were in danger of borny silled, the organics stood back to late and began foliate press. They draw consent of silless are must allong the silless and the standard of the pass foliate press.

noots, and deleting replaken hastel.

Colveninged hely wire in delayer of being killed, the
progress social back to sind and began foliage feets

performed to the sides (errors of letter) to keep the
basels away. When one of the moneters began

carbing through the bearest the ferrided the feets

pearling through the bearest the ferrided theleting

pearling through the bearest through the section.

reasted it ever open farmen, and feasted for weeks. Then, one by one, they dead.

This take comes from the removes part of the Cong. Angle, where it is cord that a man who dense even mention in encounter with the manufact—called the part of the cong. The cong. The cong. Paymens do not seek out the with the larger the paymens that Westermen, without ancient fairlies to side that feast, have dashed the creature for doe-

PAINTING BY DE ES SCHWERTBERGER



ades, in 1933, and again in 1938. Gorman potentials accultic cut, inputs and love more of the Company and Cuterroom in 1976 entered the Company and Cuterroom in 1976 entered the company and Cuterroom in 1976 entered the company and the company and and through Goldon to system for the people who live in charact of a morbiomembra-leve and the company and provided that the company and provided the company and provided the company and provided the company and the people of the company and provided the company and provide

cal in yerrolls.

Powerfix Indiangs come as no surprise to Linvessity of Chacago coologist Pay Mackail While most of Mackail's colleagues doubt hat mostale-intention creative may actually be a hairing disease in became reliable of the claimst since an abstrace relice of the claimst since

Inside peer peer through Municipal has been priced him by threfore; Shooph Amoran ownering, in assistant of molecle-sthemble buming his filts treating in February 1980, be on core with February 1980, pointers for the Congrid Sporis ordination mount to have the based. The goal assistant mount to have the based. The goal assistant mount to have the based and presponders thrick with inside and presponders thrick with inside and presponders through the properties of the properties made in ordinary through going: However miss is duty for firms days on a fire that miss is duty for firms days on a fire that miss is duty for firms days on a fire that the properties of the properties of the properties of the miss is duty for firms days on a fire that the properties of the properties of the miss is duty for firms days on a fire that the properties of properties properti

Mackel says 'made The Ancar Gueen look like fun.

When the group annoad, thay were greeted by Bantus and promises who posted to the moster's storning ground ators; the Pave of Cassass. The Islam also saw a cake alligged to have stretered a

Out of the most time and morely Mexical insaly left for form (but he sharmed with lowersty of Anoma inthopologist Richard Greanwall in October 1981. This time thay chose to go during the salary assessiwers makes would shall light prought to exist time and then heavy tracking oppurment through hundreds of missi of uncharted washing. If any fixing, the second time year was cought time to be condting uses even cought time to the

flooting grows. Macket says. "We had to peah firecogn it an inch at a sime. Georwell acids."One day (Went to look for gortes. There was mud up to my knees and water up to my chest. There could have been hundroot of checkets lawing in the

search resk that I vival and we would never have shown it.
When Matchal and his incurse list afficies on December the closest they need over the control of the control of

110 CON

searrolf Nazov Hatory w Weenington DC in a creal conference soon and fair from the high of Dividears, they meet with an energy good of contribet time sealable from the high of Dividears, they meet with an energy good of the contribet time sealable from the contribet of the contribution of the contributi

aperinin To sea respensis mily will be real. Absaud? Mayber but man has continually discovered unknown species in the early 1800s for matures imports of a series 1800s for matures imports of a seal ampais on the lags and histoparatic content out of the Dorge and Indical. What may have sounded like a my thread orestine to many fascended die Henry H. Johnston as a chief As on adult he puriosed the improves and the administrative coalled.

They readled their lines and bat, when suddenly the water surged backward from the shore, revnaling a pack

reveating a pack of ten-foot-high monsters with lashing tails and reptillan heads 9

okapi. After many misadvantures and an expedition that nearly ended in diskissir is fire okapi was finally secreted in 1906 Johnston e okapi turnid out to be a living Palasotragus linouel from the first fector and believed element for 30 million to 40.

day absorbed in Proceeding Color of the Col

Finish yee people ween too that when the ducated subjects was first observed accesses were suppressed in least and too least of the control o

The animals dryptocologists into to snare next in fact are SD-booking boasts alegedly crusing the planet's depend lakes. The most famous of these is the plane creature and to haunt Sociand's lakes.

Countries to Nesse object from A D SES, who SE Columbra reportable, speed a longreported moraled starring the boths wifface. Internacing assesses of the anmel thought shorth began until 1953 with the complication of a modern boardway strong the lives a northern shore. From that point on hordes of moraler further and Scientists have descended on the lock in Appear of abelling the best!

of eaching the beast. Today's premer both Nessasspiorar engener and attenting Robert Rines, still remerters that high belook is Schartel serms. Sill years ago. Daving peat the lake an orprover steet het bes summorted by yinggad pales of each the imag ned summorting the mythed conjecture from its waiting feel the mythed conjecture from its waiting den But he knew that seven if the glimped of haad say or a fin he of the couldn't provide the service of the service t

The storn cell and Pince borhor chester of the New Storn Record my of Page 100 and the New Storn Record my of Page 100 and the New Storn Record my of Page 100 and the New Storn Record my of Chicago were on Behavior and Authority of Chicago were on the New Storn Record my of Chicago were on the New Storn Record for the N

Since then. Rines step his photos have been less than spectacular Nesse-Nes shapes at the very edge of pictures of

amorphous blobs so far from the pamera grower. Rines and his academy will bring tow the achges of the sonar the animal will

piece it will race home proof in Ripper. to Hundreds of people, for instance, say they've noticed 'Caddy' a sea sement Cheegopake Bay in Maryland searc gazional serpentike creature with pock marked skin. The host, businessmen Rob. pher Paul LeBlond, of the University of Brittends, indicate if was alive—and at legal

The identity of these lake moretery opported in water troughs around the world as still up for grabs. Most scientists believe gone created by leaves, partially subtonally large octoourses. Others suspect saura But Macket has a different theory primitive whates called zeuglodone pre-The manning of moltanos. Market adds salmon pass to spawn. And these fish could

Both Mackal and his ontos agree the

Their second important quarry is the approan known as Bigloot, which supposcreature has a gorifalike face on a heavyuppet on a seven to expert out fall frame

believed the apemen, dubbed savgustch

footpoorts and archtmas of the sormal until 1967 when Roger Patierson a Wash

horseback tracking Bigloot in the forest suddenly reared throwing the men. Pat-

 After careful examination he reached the earth-shattering conclusion that the beast was a six-ton

actorius, possibly the hugest invertebrate ever reported in the Western world.

wight of 4. Turning once to look back at Here shally was a name of evidence Washington State University was recisionlegitmate A large tapadal primate ha contended would possess a humanifee Unfortunately for Brofoot fans, the ques-

and related the tale to his superiors, who quickly went to investigate. They found plaster into the tracks, they made casts of

when he happened to pick up an English-

When five plaster casts arrived in his lab (Ingerprintike lines) in an infocate pri one of the foes was deformed. Only an The cost Krantz likes to make is that years on the fringes of civilization. Could might be the case income that "anatom-

characteristics. It stands upright but inquetch mean? Krantz says "It would dustance and freeing of the hands did not

arright. Many critics remain convinced that Freaman or someone else planted the sasquatch toolgrafts on purpose. And not tes he forged rates of Biofoot prints with remarks; feet whatled from alderwood MAMMALS AND OTHER STRANGERS

take monsters and Bigloot, but other creatures have also eluded scientific confirmater. Perhaps the most slippery of all instance have high hopes of finding equation In resonant of this theory. Markel points explored the Algunan Islands with Vitus Benno in 1741 Steller an acclarmed net uraint had been gizzing out to sea when In supposedly speed a five looking course with a selected body and a modely is lace. This Reperties a small instead the sen morely just a five late and adaptate and adaptate of the late and adaptate a Christian service and a Christian service and

Manuforant accentate who respect Set for includates purified as of this accent legs and see cowe have surely portafied from the face of the earth Bid. Greenwell and Malchal point to the many Sowet fair ing traviers and occasionally report coulean creatures in the Berry Street. And they Avertain Iranda and traubol of the Sebration collection and the set of the Sebration processing the set of the Sebration collection.

owlined area—Teaming—are claiming encounters with faces menupalat days (Mersupalat such as kangaroos lack a placons and carry their young in a pouch). A number of local scartdast say the eports are begus but Univariety of Tasmana cooliged Enc Guide has founded a full acable hust for the creatures college Teaming works.

The wolves were common in the early days of the country. Quite replains: "But they gained a regulation for laking sheap. So in 1938 of locals hard someone called the Tagarman to vispa his wolves out. There were a someo of logitimen for the next averall descales and by 1930 the Tagarman woll with discognition senter.

Through the decades induct. Tagarnari.

and the second s

sents. And until we've got a photograph no one set believe us.

If Quiers having a mugh time ao ans tes neighbors to the north in Quiersland. Australia. They claim they re being invaded by marsupal tigate, supposedly edited since the Presidence Fox 15000.

pears ago
Disturbed by reports of huge black, callifer armsels rearning the segion's rain foreat. Alain Bathformer and he shall at the Governance of the second of the shall be called to reverse page. After socioning the area, they recently found a call shall had reseruted three feet in length from the tip of the rease to the front toes.



Gordon's and Tonic. The pleasure is crystal clear.



BRAIN TUNER

The psychological set that makes is person. become an addict seems to disappear Researchers are now starting to eluce data NET a scionatic resignate winding over new converts from the more conservative stimulus goes in and the response comes of what hippens in between By protein NET's affects on soper mental animals, investigators are shedding light on the unsurround the stimulator does indeed cause

range frequency so to speak is the mu-Like penipilin and X rays. NET was been of speritfic secondary. I becan with on that time Patterson was head of surpery at Hong Kong's Tung Wah Hospital, a large neurosusceon colleague Dr H L Wen had ust returned from the People's Republic mission of electrospopuricture. Primarily inson of pain he began testing tion patients with a variety of its Dr. Wen, however did extremely high purity. At that time the cinuss. were easily affordable at a rively cost of

One day Patterson says. "an addlet approached Dr Wen amounting that the drawni symptoms. He't as if I dijust had a shot of heron, he sest. Wen intenty thought addict reported a similar exponence equating the electroscurrungtum with a

coholics and cigarette employer, in Wen is experimental group had also been breed from their crawing. To the eye however, the TUTTY nose stomach chimps aching joints after 10 to 15 minutes of stimulation by paint. At first these good effects insted only a few hours. But with repeated treatments.

patients remained symptom-free for pe-The results of Werr's litel study with 40 Of this croup 39 were drug-free by the enthusiastic about the procedure. The hated it. 'As bigame as it may sound.' Par-

sion to the needles These was another reason not to use needles. Pastarson had suspected from the electrical observments. Even the tradenergy called by which proubles through

> Erom the moment the electrodes were out on my head. my craving immediately diminished. When

I had passed the three day mark I felt

no craving at all 9

or mendens. Sixteness was seen to be obstruction in the flow of chr. which the needing was thought to remedy modern man now recognizes as the intercure disease? Perhaps Patterson reacurreture was simply a more intense form wildrance in the freetment of addictions Years of clinical trial and error eventually tent with affernating current, white varying the voltage shape and other aspects of

of all the variables explored electrical fre racted to responds and sedatives precocaine or amphetamines, benefited most helped to strengthen my guesswork durinn those early days. They invanably tound

covery. A heavy abuser fall asleep with the son's children are skering. From that momere orward. Patterson advocated conbelts, permitting mobility during the day. wen princes no on outbrouguserhole year in the U.N. Gulletin on Narcobox, poduring the day as out patients did not lare. 66 wall 47 perpert were drug-live at the

Because this preliminary investigation was limited to 23 patients her wealth could non about the long-term ethics of NET. ment of other kinds of addictions. Patter-

Last tail at a Weshington D.C. gyaluation, which tracked the progress of questionness and when possible from personal interviews. Fifty nearest nesported to the survey and these reand moved addiction gases). 9 crosnette dicts 44 percent of the propertie ampirers. abstraction to be their goal. An additional

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in other studies. In one national survey for did not complete desperipation Patterson's patients is probably most re-

So NET reserve to achieve in a few weeks accomplish after months or years

tory of drug reform in the United States. tients were admitted between 1935 and

By the 1960s heroin addiction had spread nason dispense methodone to certified from their bester treatment. But methaheron. As one medical authority points out not get people off methacione For narcohos addicts who assive to a

elsematives, the highly structured and in homes as Daytop Village Phoenix House. who arroll in these community based pro-

are clear and inescapable. says fir Avram for the dismal failure is that the newly fort physiologic imbalance and intense way. Now that I am oured I feel emply

If Patterson's Endings seem at total ver-

a sixteen year old cadet in the Royal New at 1981 he had been addicted to herom the you're speeding (on amphetamines) about it. I just took it with a pinch of gait-

really want to do it sleep. Everything is so utes. Before if I d felt the silichtest uron for

changed You feel calmer You can accept

combining this desage with prescribed back up agen. I wanted to go out and agove. about heroin again after that You see I

care alone usually cost hen more than

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\$1,000 is month) He agreed to speek to treatment in the gummer of 1962. "Until this drups. Cocaine and to a lesser decise. on my head my crawing immediately dr minushed. When I had passed the three ton in June 1981. For the first these daws on NET' she receils. I still had the urbe had a caparette been handy However by want one When I trok on experimental puff it was a different sensation altogether it. tested foul and there was no hit whatso Surprisingly many patients who go on

of meladaptation with healthy skells for

ments. Why then do so many paperts exply sets the stage for further growth. "Be cause they feel sp good she also they that drove them to addiction in the first restores physiological normality within ten If anothing Patterson tricks fret euaddict is optimistic to the point of being

As if obeying Newtonian mechanics, the ical high? How can a physical treatment

As face would have it is scientist who mentor by illuminating the mainspring of engeen in 1975. Dr. Kosterktz idem/fied an postos. For this guistanding discovery the related chups owe their potency to what busine concidences -- their uncernit regens Almost every mind-atenna sub-

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Smill regerment base now been repetited on rate make unconspector by inpetited on rate make unconspector by inpetiting here with alcohol or heatermer (ifcoulin of angle dist) in gimot every inthinge the lifequancies that reduces shaping time had eather been proved histographic had eather been proved histographic had eather been proved or constitution of the constitution of turner addicts. Virtually were younge purposed of cusinet that it feed downloted upon during my chilosid week was comborolated by the red extract which is a support of the contract states. Pagester or had been seen to be not red extract.

How a weak electrical ourrent can open the floodgates of the mind is still a matter

inflights believed in fought town inflights believed from the country of the coun

As tar as we can tell says Dr. Capel a rugged Weishman with a melodu viole each train confer pressures impulse at a specific frequency based on the predottinian neuroframemities is scenosa, It offer words the brains internal compumobilion system—as larguige if you kee is based on housency.

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some to be as recording.

Addicts they represent only a tiny fractor of the people who will eventually be
helped by NET. Capit products. In all
like inhocul it will tind an enormous range of
uses reposably in the area of pain contrail in one preliminary trail terminal patentials affecting from chronic pain found NET.

pall to otherwise all time takely does of more
others. If it is simulation the heavy own.

drugs. Capel manyols.
Early data also include that NET may prove highly promising in the fredment of merital disorders. The inequences that in sloce expiritions and reduce features and cording to Ch. Cameson of Britains National Health Service. I seem to work workers for patients suffering from severe





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she notes that 'a few of the half-dozen chance depressives worsh litelated have found themselves jobs after years of un-

hand freedman place after years of an office of the place and pla

subcollab othern extran obvaried to inser that see mannin health and applicadian outsides. Medicily by popping and observations which by popping and view of the reason superinded thriatic or purus without any foreight in charge threat Extra conditive serve to see and 1912. To petion with Island the based that the petion of the perind of the petion of the petion of the product on the quantities of the petion of the one of the petion of the petion of the product on the quantities of the petion of the set of the petion of the petion of the other people of the petion of the petion of the product on the quantities of the petion of the other people of the petion of the petion of the other people of the perindent of the petion of the other people of the petion of the petion of the other people of the perindent of the petion of the other people of the perindent of the petion of the other people of the perindent of the petion of the perindent of the perindent of the petion of the perindent of the petion of the perindent of the perindent of the petion of the perindent of the perindent of the petion of the perindent of the perindent of the petion of the perindent of the petion of

healsh field.

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for the very reason that they are foreign-

MONSTERS :

I Statisforms the impseum of decord deant between the stan concer from the long-logs type. I retend that command it is used to the command to the command

GIANT OCTOPUS

The Queerstand call may seem big but it pains before what could be the world to hugest invertebrate—a serior actious stand.

to just of the flored coast.

The beast came to light on November 50: 1956 when two buys cycling along the beach in St. Augustine Florida discovered a huge carciass buried in the sand decire and rehusalist DWHE Walth who was of the first door reached martial decire and rehusalist DWHE Walth who will be seen to be some expecting a white But after careful commistor in the reached the approximation of the approximation of the treatment of the approximation of the thickness.

by a scientist. With the best of a Yale professor named A. F. Wernil an export on the gent squid-Webb old further studies on the creature Wernil Inmedii wentually published acclurie in local newspapers and a few socreatic journals. The reaction of their peak? "Durage" Webb hart found a mass of but.

lors or barroe find in 160 by Forestal Wood makey appointed or curron at Mammelend of Flonda. Wood was going finding that his predecessor's opposes when he discoviwed a yellowed newspaper oil pidents mig the beest—as set for octopie shirteding 150 feet termicals up to tantació to Arnaciach to logger an infessive entrestigation. Innally discovering a sal fillad with complex of the Chysie-of calcass solved laway at the Settlicann Trishtyber. Them he recorded the heigh of the timed duri fill-

Gennacy presunded the Simhanama to the term tillural less probes of Hells block to Estatia and soon he was hard street. Derng amminopen analyses of the Simhanama the Sound that it indemtated market while the Sound that it indemtated market wheel sower than it indemtated market wheel sowered in swood parament of dark and light street as word of the sound in Market Hestory resignation in 100 ft. or 100 ft.

Gernaro ignored the request land just recently he concluded yet another study suggesting that the lossue was in fact something totally unique.

Working from his current lab at New York-Linewisty Genorous out a respect of based from the Smirtspraen sample. Then he is no moved assue from a whole a 60 year old gazz ought preceived in formativity as ordinary regard, and an ordinary octopus for Carelally labelong each sample with number, he sent the batch off to Marchall at the Illements of Dhimbar.

Without knowing the real identity of the samples Machal construct as bookland- cal sangues of each. They were all more or less similar he found except for one containing high quantities of this supportive substance known as collagen. That sample in discusse samed on to be from the behamoth beached at St. Augustine.

beforeint beached at St. Augustins.
As the sis directors as concentral, these requires control of the service o

the see, German says they would count arrang his ocean a greatest beads. If it anything like the octops we latious to adds. It lays buildness even thousands of ages at a time. There could be made than get allew of hem but they did he hadde to find than like moralizes. The count is to creft the lot.

Moneters are a part of our hortage. The research basiced that if they don't hall of the odge of the centre is maintained to the odge of the centre is maintained to septeme would be out the maintained to develope the odge of the odge odge of the odge odge of the odge of

Yale. Unversity traceglar warn nature, doubte that cryptacolologist and uncover anything significant. There are list not more important tasis for lange experistions of time money, and lafert. The says, then seeking marrie sees in the Actutions see surprise in Maryland or zerpoladors in Vermort Bellet in these cities tases is earling more than a relaction of areasty in the important products and creately in the modern world of overce-

grouply in the modelin world or science and an abovious extension of current maineal in the paramormal. To the main a state to Rubinson discovered though the future of cryptozoology is bright. From a statetical perspective alone, he contends some or these aremals put have to be just

The field won't all ctur we may be wrong about about Loch Ness CO

NEXT OMN







of one performer uping his hands and legs get inside the creature. The designers crested an entire skeletal structure that the lates sion one could see bone mayament Operating the larger creatures was such eight or one months before we began shooting to get their bodies in shape Kurtz adds. It was almost like a reper-

evon larged in pricylens to body view meet and then exhang it into little bits to

"Sometimes the person inside did the

merror and frying to out your hair Everythank neversed. The performers re-

had up to twenty crestures orstage which marie even smoother by adding hydrau-

Tubes, wises and skillful performers are

you want notice that is it unfolds DO



a grand it should be dear and these crustes in the the sales on their Section Section Labor. The discharge of their Section Section Labor. The discharge of their Section Section Labor. The discharge of their by likebox of the section Labor. Labor. Section Labor. Labor. Section Labor. Labo



FANNES

By Scot Morris

Several months ago we asked how long has been met Prus Herbris thirty of Wassons, Min

to our attention. He studies a moved up cube for an hour or two noting which

memorized, it would be a very large and moreown number Starting with your need do is concentrate on the order of to recall your phone number only re-

to the two edge-cubes over without anything else. The blindfolded cultural news needed to restore a cube, and in what grater in some cases even this order is My memory isn't exceptional 'Hertrel

time down to ten or litteen minutes. I hear of some guy in Paducah or some 126 OMM

school led in Mexico City who can do before we heard from David Singmaster in London, about John White is student at records, can study a scrambled cube for

What next? We to waiting to hear about two cubes for a cube and a balli suppled then two, then three armutaneously. We



Northwest Laboratories have constact perform the necessary twists to solve the In higher order cubalogy, Live Mettert,

cube to ideal Toys, which will market a later this year as a follow-up to the 4 x 4 x 4 Public s Revenoe I deal will gall but don't believe a Mettert has a working

is a possible to write the digits from f 1963? We don't think so. Don Hastmas, of says that the next date obtainable by

Reaching 83 is eggior, there are at regreed symbols, 72 - 3 + 4 - 5 + 6 + 78 - 9 83 if you use just four + or - symbols,

Some people take this number play to electrical engineer in Arkara, Turkey, sent us a strange and wonderful numerical ode to 1983. It includes, for example 3. in order, and inserted symbols. (He including an initial minus agn, factorial sample formulas for the first two integers

2--1×89-80+3

7983 that use one digs repeatedly, but exactly ten times. Hato; sent nine. (1+1)"-11×(1+1+1)+1=1963

(22 × 29 + (2 + 21) + (2 + 21) - 2(2 = 1983) represent 1983 that use one 1, nine 9's.



eight if it, and there if it is notice, ways to did with covere eight for it. I have a service of the covered eight for it. I have a service of the covered eight for it. I have a service eight for eight f



Mrs. Holio's challenge. Move matches around in this design to proc 1983. What is the minimum number.





THORIA
VICTORIA
SENTENCES What is the significance of
the following sentences devised by Paul
Hollwag

1. Man one state lives excessors in

 Made certain discoveres extraordinaire!* Columbia informed traballa
 Modern dismocracy prested cardian

COMPETITION #26 OUGHTAGRAPHS
Pleaders may recall our Competition
#9 for calligraphic wardpilay or
designatures. "A runner-up in shat
competition was Jethey Scott of Los

Un locate Juillatif

can be need as other word depending on whem one suckess the letter, (Ann. 1980). Sooth as a talevasor somewhater specializing in whose ammands Saturday manning cariforn above, the first done suckess and suckess of the suckess of th

Recently Scott sent us the signatures shown on this page, which he calls roughtsgraphs. These are the signatures and tiles to see the very center language should have signed then names. We present them here as inspiration for our lailest competition.

Send us one original coghtagraph for my personally hang dead or fictional This grant-diprise winner will receive \$100, numbers by \$6-10 yill receive \$25 sech. Nextness definitely counts. All unities become the property of Orns Nate will be returned. Send entries (postmarked by February 15, 1963) from within the United States or by Meach 1 1963, from other postmaid to Orns Competition #26 909 Third Avenue New York, MY 1002 CD



LAST

By Randy Cohen

about the weather are still in a primitive state. I urgo the Weather Sureau to hive writers to create state-

o create stated-the-art weather songs. and informacel pooker of their These are lesses the has senten and received

mactor stional Weather Service

livers to brow. The President see issails is seen the improving our productively is grown networed proving stat first mean restrictions and proving statement of America global, our songe about the weather see will in a principle state For example if Folgay Day in London Town Sportwartner over the Resistow.

goals, our sungle state fire example. Will in a printine state fire example. If Foggy Day in London Town. Somewhere over the Restbow. Theirdrops Kase Falth on My Head. Old fashonod? You bert it is brille someone did something about it. 1 say. I'nd our weather songs should embody? Someone opposite state of their your agency.

Commissional Control C

What do you think? Ale you ready
What the Skiczonere' is Relang
Down in Disce'
Tamperature Arversion in Place'
'The Size a Satalitie Photo of Our i
What do you think? Alle you ready

What do you have him to be of the What do you have him of his you result to also up the challenge? I would be middle han happy to provide you with the name of several excellent American cognition. Others on the Stephan Constitution I in addition, I do be quite eager to participate in the project directly. Randy Cohen.

eer Mr. Cohen I must admit I never realio while cloor connection between

Melectrological Divisio National Worather Serv

Dr. Pariett Jenkins Department of Paleontology

Coar Or Joniono
Congratuations on your great discove
As I understand it, you've found the year

not and it sight triangular feight.
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to white job name is for my griffered? She is a wholeful women and it is it is largely for bitchild just like a largely for the locket. What do you think of which we work to consider just like a largely for like a largely for a largel

Thank you for your generate expression of interest in our disable by 6 the same of the same of the same of the New World.

These given service contensation by surprising and private devices are supported by the providing less framework and the providing less frame. I have be surprising less frame I have be surprising less frame I have be surprised by the surprising less frame I have be surprised by the surprised by

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Fanah A Jerkms -Harvard University