

HEW LOOK AT HE REALITIES F ANTIGO









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Sasas Program Wees Hugh Downs



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By Hugh J

If was as if we had decided to grow epol worked long and hard to plant an order brought in our first abundant crop, and s ichts Viny 850 na year dhonguis en My Nebrerd Lonnin sportur 8 each a Chargolo chungi ceir fins Lossechig, maye. Wir ceir, ha in ay oo'l charanst, biff in marfinio ceib fon in Tie garly Nemesis, ghan ho ch

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and an inchin regional. The house are model, the his house is formation to Clarendon. In the house is formation to Clarendon. In your work door in recognition to the window of the house is formation to the house and other house in house as accomplication of all to have out you have a successful and the house of the house as accomplished and the house of the house as a complished and the house of the house as a complished and the house of the house as a complished and the house of the house as a complished and the house of the house and the house and the house of the house and the h

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Arterior sending pages with

## CONTRIBUTORS

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Shar Not Be Aware, a book about child abuse one Own from his own childhood. His steplather, he news memed to be off-outy. At home he convot, verbally humitions him in front of so a chessed With no water of suit. esteem, he crow up expecting to be

wing read Alice Miller's 7hour

"Such personal responses to Miller's work don't surprise me " says psychopsychoenalysi (pege 72) "Everyone has viertey with hor work." As Miler portin amiltang shameful that happens to us trauma is reenacted repeatedly. Since says. 'In order for the patient to make

process in therapy, the analyst must be Million restore that her theory to be shared after she began releasing sportaneous in herself. Yet interestingly she will not sell-

Bruce Schechter who wrote. May the

Force Re With You' (once 36), definitely and sometimes not so much inside," he in theoretical particle physics, now Fischbach is correct, it could lead to a unded twory of the unwarse, something

freery of relativity If pleases try to brand revenil back to the uncracal state of challky wonder

Fischbach says "We're all buildened with that special spint of bisciration In the art of magic, of course, consurers

the past, marginal tricks using sperific century however magicians may not be able to compute with technology. (Ward Books) For 'Grand Ilusions direction future magic takes, it will still appeal to our childlike sense of wonder of worder and our paty without any

Challenger socident list year. the space based on their recommendations Despite the allure of flying in space slift has a powerful traid over everyone "What he does makes the rest of us look years." Stephen King has said." Has an geginal." What makes him-and his stores - introveror is the way he takes their aremail urges. The urge for externor

phous perversity for pleasure, for the currosky, are what motivate me and my cover my feelings. I want to articulate teen and areals depotly' Rabels Children with no blood and duta but possessing great charm—is from his collection to the Glash (Connecton Dates) CC



#### **LETTERS**

#### COMMUNICATIONS

Rock and Roll Fantasy I'm pleased with Lorraine Prinsity's survey.

on rock and roll [ Sex Violence and Pools and Rolf "Caliminum Decomber 1986]. The north stold, fresh by qualited sociologists and not tenabual remisters Latering to the tyrics of a song does not make me worth out them out. If I need a navispapiar article about.

If I need a meapage anticle about rage I don't send to go out and rage someone And II hear a song about how given headin is. I don't want to buy the suff Providing labels on abures that contain freeglicht insaleral will limit the calantity of liabeted eriest. After all chags, sex, and violence happen every day.

Pomona CA

The Meacle Worker
The 'mraculous' recovery of sight in the optically blind patient 'Blast' olded by

contents when primer Blant and the tycum McCornol in over whost personal read on the McCornol in over whost personal read on the general read on the general personal portugation nor for that matter, or the blant fession of mountain the weap manufact (Pointseas Matte). What December 1999] At all those personals were entermented 30 years ago by two getterms of their 30 years ago by two personal reads are also the School controlly their personal starters and their acts. They have been assented starter 40 to 50 cold controlly their devices, which ago the two presents are the significant of their acts when the part being readed as the significant production.

Those that Dis Kreeman and Memil comman there efforts on the linear medical scenario and more important, that help publicate that indirings in the appropriate modals forum. We plaints of smillary bitaninguised children have gened procoss little from the instrumal medical approach, and it is heartening to find someone chellenging the methodrall.

> T J Burt M D University of South Carolina School of Medicane

Arenal Talk
I must applied you on your interspectes
communication experiment ["Calls of
the Wid." December 1985] For some time.

now a number of incliveduals have been working with animatic but their work has been either ignored by the public or treated with condensariakan. "Who

A good two-must had with a woll as refreeting enough to releve eight hours of stress from the job. Maybe the types of "partiagetion experiments" you reported on will open our minds to the possibility of communicating with other species.

Mark Lyon Middlebury CT

I view very plaspoomed with your article Calle of the Wid or increasestables communication and the plasma of the and with folious the golds for one pains from memory and the plasma of the section of the plasma of the load with folious the golds for one pains from memory and a plasma of the plasma of plasma of

> The Gonits Foundation Woodside, CA

In the description of the January cover photographer Steve Santa name wis mospheld Our spottings. In the December inferview with Linux Pouling, Pouling was quoted as daying that Bereach Pharmacouticels tells securic and in fine crystals at STS a half slogram is made for STS 90 oer Nooram.

(Never Ending Statile) Continuum December (1998) are Jerry Siegel and Joe Stuster 00

#### THIS BRAIN'S FOR HIRE

### 

Omni welcomes apequiation discrets maders in this open forum. We write had of informal disbous that provokes

Today we chuckle at the nineteenthcentry system of phreeology with its attempts to diagnose personal traits and study of parapral localization—and his Brain structure does affect brain function

in the last discards or so. One is the crowth of interest in brain sesearch feel' particufarly in the roles of the two combrid

bottom line. Working from Both Sides of the Restrict Achieves Pass Job Perior . . mence. No mush minded alpha helmet

tons for determining whether your with a Brain Preference Indicator, and to

course that not setuted with a simple left. dominance plobe | which is then plotted-sort of like an astrological signs however we get a personality copsisizes on gut reactions and interpre-

The problem, of course is not whether business merger or a problem in employee. metaphors to back up these ideas has tweress At best miuropsychology is

write nowhere near being able to prescribe Besides if if works, it works whather do you really believe that the reason

So why not just item people to be batter got something to sell, peg if to what going to see more of the same fad diets can sometimes lead to knowl-

Not that this is all a bad thing. Just as The downside however, has to do with

whether support of the phrenology story differences could be traced to different recition psychosolves as well. But it taken major in the most of a good thing while it traning. Sound familiar?

Laurence Miles

South Crange New Jersey CO

#### WORLDLY HEALFRS

#### EARTH

By Camie Daugis

177 sweet will tomple the last of the great tropical forests by 2087 Along with the trees will south a milion or more other species nendury netroleum substitutes arearch

This acmospheric abenation will warm

the pount'y are adapting the best of

the earth's wounds. A new corps of

Dubbed Or Nosh Dresser hopes to methods says Drawer We have to learn

lough Dreeser take about Morn. This

Working on Marri helped us develor narsusgical ambryo transfer and embryo runs. Scorn we hope to use domestic cate from the endangered Indian desert call transfer can increase the population of a

used as elept -- a common artebooas a surrogete mather for an endangered and wild African populations again upon riand ne sampasses to help boost

There is an ungertoy to Dresser's tone of hozen embryos and sperm—though John Todd is so dedicated to wetaning



#### THE EXODUS INSTITUTE

### SPACE

By Edward Regis J

Bocky Hill New Jersey B small residential community a lew miles north of Pangaton Once a rocket engine wropeound windows that look out on a But inside the Space Studies Institute made in space a feel that they hope California during the gold rush days

research metaution in talown right. Our

telatets "Maninak says, What you need Unlike some space advocacy organ-

keens administration and public relations projects. To date, the most promising One of the biogest obstacles to devel

costs thousands of dollars per pound to

electric costs put logether in the shape of ette nevinari comenn bucket i a dec fuit

cois at 500 miles an hour A mass driver much larger—about half a football field igng-and many times bater it would huit catcher in stationary orbit around the moon would patent the one. A funnal measuring snag the flying packets of ore and food

space stations maybe the parts for another propagations are working on Standing in neachly available in the moon's tooks and speps structures out of metals," Marynole

differentials on the moon. Beams of



Splan-power antence. Once space projects New Yes and burger ispace colonies will follow

## IN SEARCH OF CAMELOT



1922 two-weer-old Norma Lone

lived says Gaodnich protossor errentus

ten not a pagan in a Carnelot located them he won his 12 batters as a scerren

dragnet in 1988. Sive read reviewed. translated and sometimes retranslated

Then on Christmas eve 1978 Goosevin.

been one of the world's most closely

to exerting landmarks but also to deferrance

in Old French the adjective follows the



Face or School? New research offers the Sea bistoncel peopl of King Arthor's existence



#### 

### THE TRUTH ABOUT BLACK BEAUTY

Botton if Australia Basic Basic Parallel and State Person and State Person

pegn in our very living rooms.

Some children Merature, Christenson warns in an article he write for Perspectives at Budgy and Medicine, "prevents a budgy so sentmental and unreal. That the reading or listening child at in diagner of developing an artistorial best that could handloop him or her throughout school and the, even to the point.

Indicating persuastress from the compact number of the favor were a manufactor decided with believing teaming before the rebut got their stees about morkeys from Curraus George. Persospation of amenia economic or highbrood—to a considnation of their stees about the contract of the contract of their stees were to the contract of their stees of their stees were to their stees of secretal for uphod in a Navarthewing Closic disligation to best new resource protection on small before applying them to perlegistic protection of their stees of their s

"Sembring dos also disem." Christensen sad in a telephone interiew Ard the Wall Dariny, film version of it magnifes the fauta of its thoroughly unreal biology. "In the story start," Christensen notes, "the way listense on the trees expect her philosophic doubt about the meaning of her fall. If such articopomocphisms were last risks one might the justined in possistation a story about a tree risks one might the justined in possistation a story about a last risks one might the justined in possistation a story about a last risks one might the justined in possistation a story about a last risks one might the justined in possistation as story about a last risks one might the justined and produced in the produced and the produced in the produced in the produced and the produced in the produced and and the produced and the produced and and the produced

Intelligence of settler them usefully in the laboratory. Christians in a sudicidated reserved with took his moont published stand against children's stones where when some contrible pueses one the course of his meety 50 year causer. As a member of this Michael souther of the American Academy of the anisotial course, or Christiano is explicit in oil by the state of the anisotial course, or Christiano is explicit in oil by the state of the set of the state of the set of the state of the state of the set of the state of the set of the state of present set of the state of the state of present set of the state of the authors to coordinate the near of offeroing storus. He's a grandtheir himself, one who values long latest both grant participation of the production of the control of the control of the coupled with participation and the "Orientina" and whitch go recent and due the day for all odd, and in any and which to Dr present and due the day for all odd, and in any and which to Dr present and due the day for all odd, and the control of the present and due to the day for all odd, and the control of the present and the control of the

onmets like? How much that they like or unlike up?"

Authors are lived, Christiansen thinks, by the "leasy money" in children's animal states. If they reset on writing enimal stones he feel they should follow these nules.

First, sinve for "bological honesty." Everybody should take a

This limit of incorporal indexity Levy, Coly Jinck Island a which chronical the explose of a gap instant Mater and inwhich chronical the explose of a gap instant Mater and inoffices of a spalar. Character, to see than from the face of opposition is in the loading of the herder facts of indexity, appeals, Cherrical Character in the control of the control of

umail must talk, his winforming teer to adjust with a sect of the wind place of the substancing of the convent expensions as well placed but to disclassicating of the convent expensions. Black Books, who prattice on to several hindred pages in the self-convent independing the propagation propriets must acceled any placed by the placed of the time? By many of the to, the placed of the placed of the placed of the placed of the placed to the placed of the placed of the placed of the placed to differ the placed of the placed of the placed of the placed to differ the placed of the placed of the placed to the placed of the placed of the placed to the placed of the placed of the placed placed to the placed of the placed of the placed the placed of the placed of the placed to the placed of the placed placed to the placed to the placed of the placed placed to the placed

#### CONTINUUM





freiend a greatest natural re-



#### CONTINUUM



#### GIANT CLAMS OF TONGA

Grant clams—some of Islands in the 1770's

# blessing of Tonga's King

gan antiquity warns fisher-

he launched it in 1969 when

#### -Anthony Liversidge DEFEATING DEATH

He says the horrooneused as a mating agent on

indicated to Nooden that a death hormone, killing the





wester doing in Mixeon

50 years, the eighty-excyect-

to have discovered pottery

may port to a Jewish more peens did Asian-looking faces I began

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EMPTOLOGICAL ORROR IN THE INTEREST SEES Long before the date of warehed the arms and the was profit up the arms to against Bay, on the charges Bay, on the charges Bay, on the charges Bay, on the charges Bay, on the man See, decorating stackes or logge the assented seed. An armay as 800 lost access grow was given by their eggs and claim by their eggs and claim by their eggs and claim.



species, have gazed in immediate position and a bearing south midstyle of the west sets of the situal population 36 000—has begin no disrupt their large environment with calls and hotals begin lights alo the causewing and the hast stud of siscol muse. Some stranger of the hast stud of siscol muse. Some enterprising 25 sets filters in significal stage customers in granted stage.





bright lights and 32 DANI





From Carn to cookreaches. creepy, crewly cockroaches.

see related and that implies a

We must use it as a model or

Man is rathern else their

-- Bridges projects



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#### GEOGRAPHY in case you needed proof

even in the warring years of the lever-field northury. If all geography viniting to both an invoiced secretary consistency consistency and invoiced secretary consistency of the territorial claims of linguisten and invited in the Carlo and Instituted in the Secretary in the Secretary in the Institute of the Institute in the Institute of Institute in the Institute in the Institute in the Institute in the Institute in Institu

the settler, they fave proved that intend cents some 85 fact to the north and 394 feet to the west more than 5 facus fit if was fit

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graphical mo-up, which

For other house a series and services are services and services and services and services and services and services are services are services and services are se

Says John Doon, a senior lecture in surveying at the Dunen's Observatory at the Botton Street College of Technology. Thanks to satellites our abolity to massuum the earth has improved.

— George Nob
"A man is as old as his
arteries"

—Perre J G Cabane
"Time, whose hosh grees
away everything else, is
powerless against truth"
—Thomas Henry Husley

Ja the DREAMING situation of the following situa

First the most gust, sheem are seen as sweet and that the west of the public of Christ according to psychologist Joan Wale, who is concluding position conjunction with policy of the property of the public of Christian or or public or the public of the pu

name to 271 Chinac costs; students and 340 American students after found that only 35 percent of the Chinese believed histering many dreams is good for a person heelth, while a recounding 31 persont of the American fact that way in addition, most American face 258 persons the to

In addition, most Americans (89 percent) like to dream white only 29 percent for the Chinase are more strad of byweg test dream what are Americans Why? Walls believes the Chinase qualities are recorded to be belief that since is the

Chinese qualities are noticed in the belief their sines is refected in deserts. "If you hat the belief that having a lot of determs industed decomter?" Walls speculates, "then deserting is not as deerable an activity as it would be for us."

d therences between Eastern and Western dreams - Most Americans (74 percent) dream is color, as compared with just 28 percent of the Christon - Americans of team more stock thirding or loaning money and visualities.

pacific lives to the second cans dearn of awesthear much more often than the Chanse do + More Americans determines the company of the Chanses of the Change of the Chanses of the Chanses of the Chanses of the Change of the Chan

Wats "and people in A are very interested in of There is not that lend of heightened awareness dreams and dream Ye Chine "—Michael Date



MAY THE FORCE BE WITH YOU

BY BRUCE SCHECHTER

For the first 40 years of his life Ephysim 4Drity to full solvep arrywhere and at any subwey car was as pood as a feather her. waking up in the middle of the might

his calculations he had made some tempte. stupic mistake. A lot of very smart people Fieichteich and his collaborators

believed they had decovered a new force of nature-one that swamed to push objects apart literally counteracting the textbooks would be rewritten, and Facts-

years spientists had been sealing a single law. While physicists had already constructed energy such theorems, thou Frechbech is right however and there

Fischbach's new large might help revolutionize technology, develop a unified field theory, and decide the ultimate fate of the universe 9



A new force might even help decide that

ence of a new, extremely light paraclo gest undetected throughout the universe whether the unwerse will go on expanding

scopic distances-in this case melets or

Above Physical Ephram Feorbach's pas

we've considered the possibility of build ing newgation systems with 4" indeed because the force seams to lossely social different materials to different decrees

understand. Before Fischbach came along could be explaned in terms of sat four fundamental forces Greenly the force of attraction between any two mapping is re-

etary orbits and progressively sugging rows Electromagnetism the force be tween charged particles is responsible for the fash of lightning, the power of batterbinds protons and reutrons together within thougo sometring useful Even at the stage in an atomic nucleus, and the weak force

Following Ensients lead physicists

been attempting to unity the four forces showing that they are suct different roles recognized as aspects of a angle force called the electro-weak force. Theories that the universe has even caused an explo-

just line until January 5, 1985, when the Fischbach was at large in the universe the news that night. I decided " he now swe. The Ferthed's dam had to be trash because a discovery of that magni-

The next day the discovery of the lifth force was harled on the front page of The who would dip the O ring in loc water to suited from "overerithusiasm" And Har-

Washington had in fact published his class of a new force in Physical Revenu ceived their Physical Review Letters mostly Eightee as say Cawleo's trip to the Lean

The Edivis expresents was in fact a

fan eon ball of one hundred pounds, fall no from a height of a hundred oublis ball has fallen a single cubit . Trying the represent terred! Galley found that the larger precedes the smaller by two line ger's breadth - and the was probably clust to set resessance

By modern standards two finders is guille whether gravity acted on all things on jobs whether of materials, regardless of weight or structure had at precisely the And in the early 1900's Rolland Edition, it

greater degree of socurady licrycs resized it would be hard to achieve this accuracy by dropping or owinging weights and besides he had a better stee Working in the basement of the

university that now beam his name, he stacle is tray barbol-a stock with test weights on either end. The barbell was by a long thin quartz fiber. The weights were pulled downward by gravity and numbers received by the center and forms of the earth prototon. By cerefully balancing these two forces. Extres showed that no matter what the composition weights port in a billion

Firsely, rt 1964, physicist Robert Dicke of Princeton did experiments that were a hundred times more sensitive than Estyears instead of measuring the ride of which objects fall to Earth. he used an ultransmittee balance to learn how objects on Earth are influenced by the graviasoral force of the sun and moon. His measuraments complete he showed that objects. But he found no evidence that the weight or structure of the test object at

fected the gravitational force Three experiments convinced oftenyears of the truth of Galdeon assertion. Since in Dicke's extremely precise experiments. ty atomy acred between bits of matter But Fischbeich, who had apart years lockern for evidence of a new force, was

overlooked. That if a new force acted only own a street distance—a low hundred out if he was right required only a trip to the

unknown of source—the library—and a Fischbach's approach to science is anceed in a fractination with the ordinary, a knack for plimpsing magic in the mundane. His grandfather was a carporter, he

curlains, and his father is leaver with an interest in building things. As a boy growing up in Brooklyn, he followed thater pateened inclinations, beforing in his father's

gut nome new treasure. One day it was en flow right a formul musew with a rawken are seen sun mendermer, a handful of

and with chemicals donated by an uncleartic lab. "I took junk from the gas station. suck from thes, suck from that and put it toouthor to see what I could come up with.

The pants disintegrated, okay? I was standing there

completely naked I realized that this was a problem, because even in New

Amits to what you can do?

he recently recalled while scanning his of non which is crimmed with museum respets have always encountered violent oppayson from mediocre mindo -- Einstein), a chunk of meteorite. A Calder mobile, bat arged like some made Edivids expenment, hangs from the ceiling. Today a great Frachbach admiss that most of the frings value of what most people sust throw away

in 1999. Seen he was overright babyedlet a tare isotope of oxygen. He still keeps a largotten many of the details of this into cate experiment, he does remember that it used a lot of nitro acid, which was for-

shift Fechbech undressed and found that

The next clay I werd on the subway with a new pair of underparts obviously but the same Levis he saws it was the Broadway/Severth Avenue line You know. wall-to-wall people. You could die on the soot but yourd all be standing up be cause there's no place to tall. Sudderfy I creded right around the gron. What I im-

geers or who know exactly what Whatget to my underweer it had to peys through pleasty naked I realized that this was a T-sten on, and I stepped to the wast and wantped the T-shirt around my legs. I was lossly bare-chested and in those days, that was also ndictious. People were looking no parts on This incident had a mace negative effect on me

But there were compensations. To perso the time white working on the right shift. frigugh the Demus Avenue branch of the Brooklyn Public Library for a Sharlook Holmes book he came across an unusual book by Lilean Lieber about Einsteins

poem, but it was possible to learn the rucows Emplems theory of relativity had a reputation among laymen for being pracclasse people in the world suppossedly understood it (Einstein once remarker) frue

gred I Intropped Fischbach took the book out and began reading. Toald, Look this stuff is hard but it's not that hard I can By the time he reached graduate school

He was soon taking a little bit of this is little bit of that, and putting it together to come publication. He became a working-class

publications. He worked hard at his physmanust in the scientific jurkyant-in this case the rivelin of disparsed anomales-

The great scance historian Norwood the libers so they sust crumble into dust Returning home one day after a long ween.

in 1979 Rischbach and collaborator Samcestory in Upton New York Tound them. solves a new window in the form of the kaon-a type of elementary paracle that exets only 10 billionths of a second before theory of relatively predicts thet as a kaonspeed, time locally signs down But say

as the 'wridows through which the anal-

Fischbach and Atonson reasoned that was They hypothesized that if a new force exeded it might be coupled to something called /aparchange-is still-bynothornal the total number of protons and neutrons to slow down, if would probably influence other forms of matter as well. White Fractibach and Arposon were wondering and Where olde the new topo would show on physicist named Frank Stages

ton of gravity. With less mass horwise. gravitational acceleration of their rest necnot decrease in exactly the fashing nondicted by Newtons well-loved laws. Feichtrach soon began casang about for

tember 1985, he sealized the old Ectyce.

bach lows. Then I saw a table and I was at which the feet masses had faller. Had there been no other lorces) these numbers should have been zero. They weren't was shocked to see in the caper that

Ection had compared the gravitational accidentitions of wholever substances were handy, water copper copper system nist. mum, tellow asibases, and even bits of snakewood. Had Ectyps known about hymadde did that weekend. He might have made a craph companies the gravitational accelerators of the test masses with from

meanl anything.

Without datasted extendence it was in-

mans, the smaller they accorderation. Thus cost. If greaty were on one axis, and trypercharge on the other than the ports of one by one, all fall on the line. "E was ure inconcessable. Talmedoe rocalis. You've predicted that there's an effect in the Eco. and these it is life just short of sawing would Soon Sam Aronson and Fischbachs two the new light of inspendation, reserved to

by about a belignth of a second. The neaneutrans, has a greater hypercharge their Theory in place tand a physics awaits mistake the world would pounce Getting a scientific paper published pan

wise clay then at least if would be out-

Letters will print a paper it must be med

CABLE cossible to know whether those mustin So he did what any other respectable physical would have done under the carramstances—he dumped the caper on one of his graduate students is large. to hern. I'm state there sort pryviteno hose. HE DECORDERS

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Someday magicians will change the color of the sky, stop Farth from rotating, and saw Manhattan in half

# ILLUSIONS

BY RICKY JAY

in a report broadcast of a virtually uncommunicacouple in Times Square and nested they seinct one playing of 52 Pern fashed a lan of the remaining 51 paids in front of a TV carriera the information was solayed to Teller, who which cards were present and instantly identified the card

beltmard, were started when is the emply a parody of high technology-an elabo-Francis Becon? Or is the event gimpee of the twenty-text contury when rescicings will computer laser fiberopto and hologram teighnologies to For contines maps: surror seigran and philosophy were

Times Source: The pertoparts: Mosterin, and idols delivered

Presenced settings the showmen were often serfchioscoty who demonstrated as mettic effects scientic

sophical mathropiasi optical mismetical electrical rever cel chymical preumatic hydraulic hydrostatic styrmgraphic pelanchic and capitscorn than the subject of prase

street. Tellar relayed the informetion to his partner by however PAINTING BY MICHAEL PARKES

electronic biliboard high above statuus poured recred

roous and vagabond. At the same time. however, one could be misched by to that could groom to feathers, est, and dank. men who boat a chum with precision or played civicate times on the fulls, and a wonderful machine that draw portrace. A computer that place chess may fasce rate, but it would not mystify modern-day speciators in the 1780's however a Mosow turbarred Turksh chess-playing mapross Maria Theresa To audences almady familiar with wonderful automate a could be considered a reality Capitalizano on such thought and using his own repotation as a skilled scientist and mechanic. the Hungarian buran Wolfgang von Kernpelen logied audiences by clewely con-

cealing a further deposit with its composition of the composition of the comtraction of the composition of the comleted on information handlessed by conceived based and become special or the following of the composition of the comtraction of the composition of the comleted on information handlessed by conceived based and the composition of the following of the composition of the comleted on the composition of the comtraction of the composition of the composition of the comtraction of the composition of the composition of the comtraction of the composition of the composition of the comtraction of the composition of the composition of the comtraction of the composition of the composition of the comtraction of the composition of the composition of the comtraction of the composition of th

ing machine, which intrigued a youngable who happened to see if the boy but, a pretty fair speaking machine of his own-train name was Alexander Cinham Ball. In the early Motifs is Belgian options. Rebetter, created a show called Americane good. Using scentifier principles, the conjured up minipies of skeldetins and returnated doed horses of the Firmsh Res.

unched adde factors of the finition reunderstanding the section of the finite reduction between the Drodded the 
instrument may be a section of the use of apply remort instrument for a provention of a province of the use of apply remort instrument in a section of the operation of the operat

By the models of the century, the art of producing choists had become a theated specialty thraggis were reflected on sheets of glaza, allowing actions to paid with pillurtum forms. These glass afflictions no doubt gave rise to the hoquarity cohood phrises This all done with mirrors.

Is the melecrific entury even more intensing exemption of the working of magic and scenic ower related Recent-Houdin, the greet Recch conjurer and Tather of modern magic." came out of reterement to scopet a mession from his government. He traveled to Algana, whate the Maraboute is sect of magiovorthamp exi-

AS DANS

pour forthock were attempting to rothe a revealable squared Fance the performed of Souting Carper, match were Massibour, contains 16 anneal an Agentum of great cardial revealable specific small wooden cheek by the beasa handles arreal wooden cheek by the beasa handles with the same attemption of t

herd wicked the Arabis agony. Modern goders can no doubt what the method below the stage, a flugge electromagnal in the chost, a conceiled in sheet and a bridge relation to cold that led to the trisse handles of the other production of the chost production of the chost

€In what must have been the strangest of stage acts, ice cmam was made in less

cream was made in less than a minute, flowers were frozen solid, and rubber balls hecame as fraolle as class.

In 1988 Meet Morror billiotins published in der in Morror billiotins published in der in Morror billiotins published in der innature deplored—morror der die steller billiotins der innature deplored and occupied with a steller billiotins der innature der billiotins der billiot

the strangest of excessful stage acts, so or over was middle in loss than a minute lowers and gapes were local stade when put in contact with the mystic work. The act—portnered by Minute Middle Holling, Ocean of the Mage, Rest ending more than a demonstrate of the Mage. Rest ending more than a demonstrate of the Mage. Rest ending more than a demonstration that the large distriction.

a unknown to the general public
The Tallang fleakette, introduced by
an about magner David P Abbott also
couled a simple. A kette we have
a to specificity, whose general terms
a to specificity, whose general terms
to specificity, whose general terms
to specificity, whose general terms
a context on the specificity of the specificity of

tims and special effects, and the preseners of crome in their stage show, for the best time they found that own it associated megcal than the technology of tim stell Technological determines were no longer the secret weapons of the magons but as important tool in the presentation of miga-

important tool in the presentation of milgical flusions Instead of using new solidition principles, the stage performer spoke about their, couched his preembalors with reforences to them and cleated illusions around them.

The interful autourating flectinological

The utberly associating lechnological advancement work lead for girthold on well and advancement work lead for girthold on well manufaction and the properties of the properti

mite personal and emotional art form base experienced at close sarge. Lisading probasional and amateur magicians, stowered have widely difficient lesons of magic in the workly list contrary. Marine Gardine, who has brought methematics through his Scientific American.

column and rumonus bodes, is in the property of the column of the colum

person of this ground.

The major trand forday says Cardiner, is the rifuence of telestation on magic "David Copperfection variating Statue of Liberty parametros have to

## BABEL'S CHILDREN

Making decisions can be child's play, even when the results affect the fate of the world. Just follow the rules and win the game BY CLIVE BARGER

neer road for road find had no agricult investigat, if in the fit had not fit on agricult investigat, if in the fit had not close above from white, if it is the fit had not close above from white of the control and the con

segment of accordance with the properties of the work of the segment of the work of the segment of the segment

the set off storp it.

The landscape to either ade of the road (or, as straped) became, receip was, at both, unduffinguished. Even the pasts after half americand were not an evidence here but stor, for gases wegetation touled less than noundary. Dake Senten, with its prince are an evidence and produce the control of the Cyclesten—with a public sentence of the control of the control of the Cyclesten—with a public sentence of the control of the cyclesten—with a public sentence of Mylonan—se Society of the Cyclesten—with at public beginning and public sentence of the cyclesten of

PAINTING BY SALVADOR DALI



that might daw the lours! That in short arried car She brought the ancient yets lowed by a shot, and a space then a sec-The air was fractors with sand lives and made the car had effectively masked. Even as she breathed the perfume she heard a then sizes, and this time she saw a figure

only to disappear into a trough again. Three or four beets later and his pursuers an escapes except that—an omnous touch—

She he stated at the side of the car not and drys away or go and find out what this hade and seek was all about. The men in black had deappoared after their quarry.

vanished-and by that time she was lost in a sea of grass-crested knots. The cases

She selected the largest helock and sudged up its flerik her feet unperlain in mock was too purty, all that was revealed pushable hills, naving their backs to the her linger and put it up to the wind, reasoning that the breeze would meet leafly slooder information to base for mental cable, but if was the only guide she had

After two recessingly breathless min-

cluster of whiteweshed buildings-domirated by a squat tower and smood like a nated here and that wisdom probably over in this wastistand and news text her sequestered garden within where she mont at least out some shade. She helicad

One of the large gasts was alar and she steaped through The yerd beyond with

←One of the large gates was ayar, and

she stepped through The yard beyond was payed. and mottled with doves' droppings. Soveral of

the culorits sat in a myrtic tree and coold at her? gangs. Several of the culpriss sat in a myrtic

tree and good at her appearance From unchastened by adverture, she followed a statue of the Virgin Wary-her notorious child Impers hased in blessing neighbol The security location, the stence, the planness of the yants and walkways-#16 She had been godless since early ado tworty-five years. Now at forty-one she named hose. But then into wash I seeking

speed upon it was a sensitivity her life with Romald had apprestigated into a pixth sense His indiculous gentousers-which had, only three months earlier, anded then memace-had led him to soyon strate able felt not one but several pairs of eyes yard, and seemed to see movement at one of them, repody made any effort to call observed that she would have to commurecate in sign language? Well so be it rang feet, soveral pairs rushing lowest has And from down the walkway, the sound of

blood Startled, it leaped to her face. Her waskened legs began to gover again She turned to face the owners of those urgent footstops and as the did so she caught sight of the stone Wights head moving a fraction its blue eyes had followed her across the yard and now were unmistakebly following her back. She stood stock-still bestnotionin, she thought with Our Lady at your back. It would have done no good to have taken fight answay because even now there truns were appeartheir hights belowing. Only their breasts and

bridge. She might have knuched at this inconcruity but that they were porting their These was no word of explanation of armed men disessed as nurs, a glampile of sweet reason was doubtless as rare as

She was bundled out of the countyard the Votices. She look this myssion without more than a cursory objection. Not for a moment did they take their rifle sechts of her and in such circumstances obedience seemed bast. Search concluded one of lette while later one of the nuns brought her a bottle of palarable resura and to complete the catalog of incongruess. The

There may have been an exec." the man several hours of interropation. She was resanctuary was sine? Merely director's She rmon. His office-if such it was-was that a human skull with its bottom plan meaning, which saf on the deak and poered German? It was only when he crockword oxidd he was Sweet. His name, he clarined. was Mr. Kleen

We've located your car. We have also

Tim not a kist "she said. She was well past the port of courtery with Nr Klein despite his brides with the confectionery.

els of one of the buildings, had no windows, it was difficult to be sure. I'm oled you're satisfied. Whe said "Now will you ke Klein shock his head. No "he said I fm. lence of her movement overturned the

char Within a second of the sound the sisters appeared petal at the ready With Jame based strong from at Sister Stanslaus withdrew and closed

Why? and Vanesse her anger detracted by the appearance of the caused

Why whee? Mr Klein asked Klengahed heavily "Inmy own operion. much of the is redundent. Mrs. Japa, and

possible Meanwhile I beg your indulgence. Think of it as a game "He face.

Kinn bowned. Never med. he suid.

make you force Vineses gave the skull a beady eve None of this makes any revise - she said made a regrettable error in optning here. Mrs. Jape. And indeed, we made an expestricter than you found from But you

Look, said Variess. If don't know what is grated on horse I should want in know. All I want is to be allowed to go back to my Judgets by the expression on her interro corpris tape her appeal was not proving persuasive. Is that so much to ask? Intersaid "I heven't done anything I haven't

soon anything. What's the problem? The problem, he repeated quetty to hirself. Now there's a question. He dignt The door opened and the nun was there

dressed his bowse immaculately sed has Return Mrs. Jape to her room, will you?" flousers holding a lettral cryste Reports Ill pacent to my ombassy? she seed her repenament faring. "I have notes!" "Please" said Mr Klein looking paried "Shouting will help none of us

Do I have a choos?" she regled

The rick of good farce she had gince been informed by her brother in-law a deadly senousness. There should be no sly write to the gallery arguaing the tarwas so outrageous a would undermine the of experts all enling-habits wropies and

> was in no way out of the orderery. Try as € Just about dawn she was awakaned by a

light tapping on her door. The small window in it opened, a

face of an old man\_with a fungal beard

and wild eyes—pressed to it ?

she might, she could not call than best not She skept well helped on her way by helf the contents of a best of whistow that some when she returned to it. About down she was awakened by a tapping on her door

door opered from the other side. An ungent face was pressed to it that of an old mon, with a fungal beard and wild eyes Mrs Jape helhased Mrs Jape May

She crossed to the cloor and lookers was two parts stale ougo to one of tresh air It kept her from pressing top close to the

The man gave her a futtering look. "An admirer, he said

He shock his head. You're much too young he said "But I know you I watched you come in I wanted to warn you but I In amanne fol speaking Telline did

"He encaped The day before wester

Oh Vanessa said beginning to friend these discoped pearls together. "Floyd was fre man they were charact? Yes Hestopedout, you see They went

after him and left the gate open. The sesounded genumely outraged by the saualion-inot that I'm not pleased you're here "There was some desperation in his sowno Madonnes notwithstanding-to

to keep submerged. We heard shots, he said. They didn't get him old they?" "Half said the old man brightening Maybe he did get away then

Ehad already occurred to Vanessa (hat old men was her captors dupe and this her otherwise. He looked at her with such attection, and his lace which was that of a

clown, seemed incapable of forged feelings. For better or worse, she trusted firm Help me get out. I have to get out He looked creettellen. So soon? he

said "You only just arrived Tm not a sher' I don't like being locked He norking. "Of course you don't" he

replied, silenely admonstring himself for his Vul voman began again on a fresh frank "T never had Ans you save I don't know you from somewhere? Vanessa repured. Your tace

Really? he sed. That's very rice Wo. all think wore forgotten here you see

We were snatched away such a long arrie ago. Many of up were only beginning classed work before the end. I feel the same cometimes. His metarchely town balled

Though those days I torost what I was not Gown It was a singular name, and if rangibels but she could at present Indire

Who are you? Wantees asked not smlooking streight into her eyes She wished she could be trut that murrer

Life in the ultimate microcosm: the world's lungles savannas, oceans, and deserts under one roof

### **BIOSHELTERS**

BY DORKON SAGAN

we travel to the sters or eve to mobil an Earth we may five out our lives in a structure like Biosphere III. a world soon to be constructed on an included petch of most daring and maginesive will be in effect, a microcosmi fure rivers, grasslands. forests, chewrite, poeers and

As it is now conceived Biosphere II will be a massive Diomos. The human hebredom become is a four-story white rejude apartments (above loves offices workshops. communications facilities. South of that is a classshoothed intensive agrouture brome, where crops will be

where warous Biosphere if ideas per feet food out

grown The tailest structure in

perplate with a possi med and a wave mechino. Fashest south in the glass-and-metal chaphogapic in minastrure in addition to the fore and fourse say the project's clevelopers. From will be expir. human volunteers who. sometime in 1969, will let the them in the two-gore accesse-

Provide to test the feasibility of lying in and operating a station such as might be seected on Mars or boyond Like the nineteenth century writer Hierry Claved Thorsesu was level out his philosophy of self-relation at Watchen Pond, the eight Biosphareans will be part of the epplocy. depend on renewable food and onergy sources the

At Airt Net module building.

PHOTOGRAPHS BY



6/ts builders see in Biosphere
If more than just a habitat for the space
program. They want it to
serve as a kind of control world?



and complex retards.
The mores by the faultion overlands and the faultion overlands and the faultion overlands and the faultion overlands and the faultion of the faultion overlands and the faultion of the faultion overlands and faulti

animals they raise selected plants and the management of base own recycled wastes. Fait farms will provide many of that prosennable, and thay will object on being hechrouses such as using ladylogs for paid control to maintain acceptance hymnory.

peat control to maintain coological harmony. They will have that any cardessness on their part could posen their basphane and utimately, themselves. There will be no physical control with the catada world although Basphanens will have access to it through interchorus billionesis. (adio.)

of Economics, a Londoncolored defended rearrange economics of the condense o





## Biosphere II could be deliberately manipulated to simulate environmental problems that might someday affect Earth?

for the design of dissphere i has been given in seather. It is desert and to setted, It is in desert architectural form. The Anserts set is exposully adhased booksen in so secretary of the Chewton metals. Research Lobor acroy of the Chewton metals. Research Lobor acroy of the Chewton metals. Research Lobor of dispertise in girtem nouse and allier native agriculture. Also protecting the properties of the control of the co

Although construction of the Biosphere B bornes has not yet be got occupant on the Biosphere B occupant bearing occupant occupant

confirm was about most promoting account of the confirmation of th

The squareafter by of the facility uses on regardless yearing of parts signs on regardless and curlight in an 45-bask rate. But he date the plane and register, they relased arminonia in the form of exceptions arminonia in the form of exceptions are supported by related to the arminonia and consent that the date is hum. The water that they expend that contains a consent that called the familiar and consent that called the familiar and consent that called the familiar water parts and disposit the parts mod only water parts and disposit the parts mod only interesting the parts of but the preclusion but more than the familiar and the parts of the parts mod only the parts of the parts mod only the parts of the parts of the parts mod only the parts of the

martiers seet but like produces a bumper drop of planes and fish, which Buspher-Opposite and sop. Ladybuse will be used



data can harvest according to their meets. Should the unthinfelds happen and a plagar wipe out of of Boophinns II is cetted harves an improved body by sport a stature out are bank where plannings, will be started. Whit of Boophinnams would be side for town a charmager acceptation. Also fination or an 18,000-outure bod seen module of Boophinnam is also executed to 10st. The Sinature interests in a classification 10st. The Sinature interests in the classifica-

ing spalaries and the composer systems designed for the complex.

Although only a fraction of the finished sold Biosphero II. the module is already the largest existing selector structure. The largest existing selector structure the admits ago! As Philip-traves coeposed of Biosphero II and one-time soldiers of Biosphero III and one-time soldiers of Frank Lloyd Wright plants out. Simply to the strike to see our porcenting that by rep-

received in Augus aniversory. If well also uses a morbid of Beograpes (III). Aury it is recorded in section to such that is received in section to send the control of the properties of the pro

Bios 3 clump a hypothetical tight to Mark

While Bonghee II as an deel has firenness support in the science and paper communities in also paper communities in also has dis place communities in also has dis phare of classicals. If also has dis place continues to a similar industries could make the segment of countries of the continues of the continues of the countries of countr

the official control of the control

as present rate must be gother to copial rate mine the sea level, putting the city of blave from the representation of the control of the rate of the representation of the repr

study comparetive bacaphenos DO

nid of



Like a cobes charmed from its basket the gaping cargo bay. The autonaut at the

Johnson Space Flight Center, south of

Only the astronaul manning the controls

man, he regards his visitor with a no-blink. pass for firsty six and exemplifies the lat

in Southeast Asia earning the Distincushed Flying Cross and 19 other medals and during an April 1985 shuttle flight,

When the Chellenger exploded in a resion program faved out with it. Ever since Grigos and his approximately 80 fellow as

the NASA was not the cap-do super off-the record interviews astronauts went tegrated. Astronauts charged that NASA stroved morale, particularly of the sciented-natronauta. Mosale is poor in the from a group of astronauts and NASA en

Graces Addressubs are being given larger administrative roles to play in the space appointed associate administrator for result corosi heve been moved into imporrector for operations. Robert L. Coppen will for planning, and Paul West; acting des-

among them. No clear vision guides the space program "Back in the Apolio days voted a lot of time to doing that," gave as Iscornii Norm Thagard ia Marme F. 4 pilot M.D. 'These days we talk in more general tine access to space. But we don't take

tious for frem to build and mainten with strong national commonent to explore space And by that they mean deep space. establish a kinar priory with crews spend to Earth After that Lind would send an unrobotic ieep frunding across the Martan and digging up rock samples with a robotic arm. If would also scoul out landing

> flew on a shuttle flight in April 1966, then Challenger accident. "My first step would Look what a happened to the poor plan-

sites for manned landings

ray telescopes, and the most important There are a low earthly problems that the obbous status of the scientist-astro-

office was that I have always intended to teach college level physics. The other half in what I considered a wrong direction



be that specially on space missors.

Set All right these scenish reduction who sale All right these scenish reduction so across and all right these scenish reductions from missors from all factors will reduction the hast exploration of miss spectromental wildows and account of the scenish reduction from the scenish reduction from the scenish reduction of the scenish reduction from the scenish red

ural adverture in the shuffle.

Reviewing the history of this antiscience mischaet Lind styre. Under Deke Stayton things were prefly girm under George Attivities were prefly girm under George Attivities and adduct that any time yourse thinking about science yourse neglecting your responsibility as an activities.

the distoraut porps acreatened call surto-well they acreated the policial immedia debug in the production of the policial immedia debug in the production of the policial immedia debug in the productive obstration of engreenia. The productive obstration of engreenia in the productive obstration of engreenia in the productive obstration of engreenia. The productive obstration of engreenia in program sept and worked start with name of mandate from headquartess requiring the productive of the pr

Consequently, the best possible space program says Lind would that with a new mondate from headquarter requiring the astronaut office at Johnson Space Center to reestable in reasonable scened-sationaut program. "If it would mean firing George Abboy then Lordarry would woll for that" he was.

Dales Silyani, who was once chef estimated descript of fight convex questions demand and descript of fight convex questions demand and completed. For one thing young got to have a flight crew to by the vehicle the says. For another, whether someone size files of obers 18y depression on the mission's specific sequements.

gacting of all or migra, personal register, and the property of the property o

dental commission that a failuse in a primary seal in a bootser rocket nozze part on Norm Theopards 1885 flight was a coe that NASA stoud have support flyring studies and faced the problem. Wall, I rayer knew that until it said a presidentally report says Thagan? "That's not the way

to find out.

And I middlespie a was not until long other the same light limb is beinned that the same light limb is beinned that the same light limb is beinned that limb in the same light in the same light limb in the region in the same light limb in the president decorrisos to be good mensuaging by the Challenger decision only when the president limb in the commands assessment of the same limb in the commands of the same limb in the command in the commands of the same limb in the same

oystem they thought was one humanous persons (safety).

It is harely a question of astonials being adread to fly. If think a lot of people would fly with that onlight a lot of people would fly with that onlight a lot of people would fly with that onlight a lot of people would fly with that onlight a lot of people would fly with that onlight a lot of people would fly with the onlight and the second people of the second people

We knew of about the man-regime problems. We hoped south them owistly Manday insteaming "Lied acids." We knew shoul all the bashe problems: We head about hem every Monday morning, boo But we don't have about the Oning problems. When I loand out has we can'te with more concite of belowing but, little bestrayed. I agrie with the Queen of Heerits—off with their heads, he says. I have do the

did not tell us about them here? We need an emproved distrible but the determined memoral distrible but the determined and emproved distrible memoral distributions of the determined and resulted from the indicate epipering 1992 backers logger with modern equipment. The EMP Content on your officer death has make a computing power than the make the back to see the death of the determined of the death of the

more insegratification the mechanic Flori instance, orientate that insection when we retrieved Soter Mark File adult. We took a head three assignt the solytile trades are we seen extrangly out of facility to december we were ground to facility in concerning in would not be the first forced to modeling the would not be they have to smoothing the would not be they have to smoothing the would not be they have to smoothing the would not be the first forced to make a control or controlled first supply margin to perform hope lends of managements.

chief assensus John Young complianed about how risky shuttle landings were at the Kennedy Space Center in Flonda. The nurways are short and natiow and the weather can be unpredictable. Some as-



ing stop should be limited to emergency landings? For complexies finings the shately comes in six deadweight. No engines are operating, so the priot gets only one change. Given a chace, most would prefit the week long landing stop on the lake bods of Edwards Air Force Base. Sureyould like to always be state to land.

can't why not provide the shuffle with a go ascend capability so you have more than one shot at the landing? Rightnew the muffer requires set piece to by it because have that, exits training. It is a demending flying meschine and to like to alllead the piece workload a bit."

tead his pinci. Workload a bit."
As for shuttle equipment. Overmier, finish his manual mobility unit. His efficiency of the manual mobility unit. His efficiency of the manual mobility of the sound his entire the worklother one efficience of ever man interested and could hydrogen constant for improvement of the spool one. When his decritops as one of the yeast impedience of American compresency. In high of the contention is footing to some of the decritors in confident to the content of the country of the decritors. The confident is the content of the country of the decritors in continue to the content of the country of the decritors.

respita of the detector for own in state of the post of the detector of the de

into space in anything—a Mack truck if in necessary But some have questioned the westion of how our mid step in space a permanenty manned space states will be executed. As they state in a new conceivant, these with the two core structured in crew module facilities and a separate before the module facilities. These will be that the service in the service is not a separate before two ymposites. These will state a SSC feet large before with a quant pain of solar peaks statemed the secting of The boom

with beauting grain readingular fusion to which other modules can be attached. Dave Griggs says that if he could have the space station he warfed and funds were no object, his first requirement would be more score. Skylabi said station 1973 was 27 lets in dismeter. The crew module in the 1994 signor station with be only 13 lets in dismeter to fir inside the shrindle cappo bay. Noticoly wards to have in a fastient when you can live in a finishabit, "he says, "You also want some windows." But most "You also want some windows." But most

coopings in process were so we make a make a water you can live in a ministens in the same a water you can live in a ministen you can report the make a work of memoral the number of spacewalks required to build the strong it would be preferable to build the strong it would be preferable to have as few EWAs as possible agreed Norm Thagand. Exclude proposed in the preferable to the because proposed in the preferable and the strong water and the strong water and the same and the same

Lind and a tow other astronauts have more fundamental ortholems about the staor over

tion disease. If there we obsolutely need to be disease as experience and the second part of the second part

ods would fit mode the trust if you laid it down on the ground. The solid panels would harg and out over the stadium. The modules would be the eleven story buildings on the fleying would be the solid possible to assertice. The can't begin like that the What we ought to do he saley is to got the what we ought to do he saley is to got

some expenence with a smaller structure interesting spokulity work our way up to the bigget version, once we know what works and what doesn't

Physicial Joseph Allen, who selred from the selection corps in 1966 after 1970 selection becomes greatered to be selected by a controllate or facilities of the special selection of selection of the special selection of selection report of the special selection selec

the equipment to build it don't tak us to do the impossible.

Whatever their complaints or disagreements all the astronium share one strong lealing. They believe in space explosition.

leding They believe in space explosions.
Don't think this a rebell immed I'm a supporter of the space program if enjoyed being an astronaut introces I'm' if just writte mise another changes. Currently the astronauts' chief concern a fulfiller their stated presents resorter.

Were trying to got back into the flying business' cays from this good. Most looks came haste for one issued only 10 fty in space. Let's face it. If I though I wasn't going to fiv again for years and years, I wouldn't stay.

Some of the glamour of the days of the

Minoury seven may be gone but the allule of being an astronaut still his a powerful hold over the space elde.

"Its not mundare like a lot of other frings."
I might be donny "explains Thespace" The receiting Sometime for all thought occasion.

what to do afterward.

He excess before in this chair, a lean man wen infarrise blue eyed. They do not blank. The association score.

The question in: The says, "what do you do when you gold up?".

Across the johnson Space Center pare-

Masson Control room, growing the prise invest of comparts consideral and the walsate rings of the world. If in this there is before in distant to see when morder. One of that clicks it is and is the determination comes to life does come control saming. The need settle may be even that and about his socioni. It is an observed that control content for all manned specified control content for all manned specified game the New York Mass playing the Hussian Adoor The Astron Goo QQ.

#### THE FORCE

Much to Reptachs staff Date evidently lived the paper. Ys one of those revolutionary through the 1 right has great impostence in a sea. I contribute ny folios in the analysis. Physical Review Letters took him at his word publishing Flachbachs paper on January 5, 1986. On January 7, the day other the Zenes.

story tell the stands. Facilitately was exhausted He had been talking to reportes from tell about dive world, pallently discassing he claims. Inlying hard to be simple and interesting. After a long day of the he chapged himself horie. If was standing about of If was standing abound while my wife.

Jame was trying to make some definal when the phone rang, he recalls. She polead up the neover and tased its 7m Menonal Engurer. On God Uhought, how card i relate the 5th force to sex and victored? I poked up the phone, and it same out its my trend Bruco Winstein. He says

Wherever, Ethippement, was calling for a regional Facilitation was opheralized to sit was regional facilitation was opheralized to see warried to make some plans. Over whethered by another and the see which the facilitation of the proposal of the proposal facilitation of the proposal of the couldn't serve would fait the "resident electrical" and the "resident electrical" and the "resident electrical" and the "resident facilitation of the couldn't serve would fait in opposit for excellent facilitation of the proposition o

gravely 6 Michael had to be hosperakzed

And the complexities "swy. Recibbed! They was the pool tool in their in my enter year." They was the pool to be possible to get an IV in him I had supposed the was the rich of the world the supposed the was the rich of the world the supposed they was the rich of the world they was the supposed to the supposed to the world to the world the supposed to the world to the control to the supposed to the world to the control to the world to the world to the control to the world to t

I say 'All right Bruce I get the message Cut nout. He says This is Dick Feynman fin a

I say Oh come on but heaty I letter Feynmen I ve heard or it's Fireman, And Feynman warned him about a letter he

had sent to the Cos Assales Times in eq. In the letter Feynman expressed his doubts merric would have been undersably evedent. Feynmen's conclusion was diversitepaper containing within itself its own disproof should have gotten so much public-

modificates a ferrowing experience. "Local lones every day from Physical Review Let 3079-mostly papers to referred Firstly was trapidation. Was if going to be from Fischbach's work incorrect, but some

One word in paracular would prove to what Frank Stacey had measured in his mings. The numbers differed by a factor of agreement Feynman storg with others.

did not find this at all remarkable More careful calculations have resolved these problems. The resolution came from understanding what hunk of matter influenced the ground Entyris experiment. to think that the earth as a whole acted on the apparetus. But we now resign that they mountains the buildings and the base ment resit-is for more protound." Factsbach wrote to Folyos Liniversity adminis-

gards that as a problem. Frachbach adds. Pyen if Fragilitaths analysis is correct on 80-year old experiment. The reason freenst Mike Turner from the University of Clackgo explains in the your managed low it. But the standard of care is rively

worse. He died before he wrote up his work. As a nexult sensor expenments are out

At the Fleventh International Conference on while elemental operations that the first that

Physicst Riley Newman of the University

and whelles veguen containment map at Fischbach. But today he is building in minuture Tower of Pres in his lab in order to drop objects and see if there is any def-

Paul Boyrton's experiment at the Unwerely of Westington was also described

> Scientists at major laboratories all

nuor tho world have unted for Fischhach by committing both their time and their hundrets

to oursuing his lead 9 In an ingeneus varieties on Newton's per-

dulum he has lashoned a small disc, with such helt made out of a different material The expanment is being performed at the racin of a mountain. If there is a lifth forms the mountain will attract the two hakes of rate at which it oscillates.

due-listif strape at Fischbach Just re-Riverside published a paper stating that temperature changes that creeted in portle Fiethbeich strongly disagrees. We took

that possibility into account when we did persture would have had the same offect.

There's not much he can say to Bhaldon Glashow however who acts as if Fisch bach were a used our salesman puling the

leends offer a sik purse made of these sows ears, and Illnot buy it

making statements to the press but by committing their time and their budgets to At the University of Washington in Seat tle Enc Adelbarger and his polleagues

Fischbach raised an interesting point that

Brockhavens Peter Theberger who has been working on a project that in princepie is related to the librors experiment

retailed to hyperchange. Will if be powerful. enough to resid to critica? Can Flachbach and his fearn possibly be correct? Says: Treaberger causiously. Maybe Vil Fish a Nobel protewriter from

showed that shore was a whole new wen-Frank Stacey agrees What Ephram has done is dayn claver, he says. To explain

Whether Frichbach's cafch proves sits melely nounshing will remain unknown for day he wonders what a universe with law ambiguously show the effects of a fightorce. Wird like to be able to prester. The

says "just what the force can make keens. Were where we want with electromerynetism in the middle 1800's Factbach

cars and rockets to telecommunications and lasers, we couldn't have behamed but if it can be controlled it will be used with all the experimentate pursuing his lead Any day now he says he might get the

hear it on the evening news DO



In a rare conversation the famed Swiss psychoanalyst and controversial writer offers a means to banish child abuse, terrorism, and violence from the human rare

## NTERVIEW

# ALCE

by his resides, he learned only county, he learned to be obtained and to be obtained and he learned he accept daily pursil imens. with indipatelenging compliance, after years he took movinge. After years he took movinge of the property of

the letters H and K apart One

Sther encountly scendored to a PHOTOGRAPH BY JULIA MILLER saying because I noticed my taher pything the hand broom and gave min a frounding Now I was supposed to tel the difference dich tknow anything anythere so light another liceng and was sent to bed." Chris-

We do not need books about psycholnow in order to learn to respect our olddwn Milereaus What we good is a total our traditional year about 6

of our lives, with crugity or with tendernoss agonizing suffering upon outselves and lager on our children

in 1979 Miller's first book. The Drama of many First titled Frisoners of Childhood to three short essays described how perdroams upon their children To survivie and belowed a chiclears to obey in morressing his or her teelings, the child safes atsaid Miller is all too often decression, ebb. child abuse attitudes of child rearing psy-

Last summer Miller published Pictures of a Childhood A collection of 66 watercolor paintings, it represents a small fracintroduction. Wiler started to pent 14 years and "Forn years, other I began parting never would have been possible without the inner liberation partiting has given me.

The more freedom I got playing with colors the more I had to question what I had Inprined Inventy years ago "It wasn't until I wrote my books that I went children "she says "I have come to

camps but throughout all levels of sociative and in every intellectual discreting—even Born in Poland in 1923. Miller was educated and Ives in Switzerland. She studevi obligacy by specifical and psychology

plated her psychoanelytic training in Zuhas been involved in teaching and framing

As her writing progressed. Miller's view THE COMPANY

evening my mother was laking great pains posed to their of traditional Freuden theory. Miller at first dedicated Thou Shalt Not Bo ences in the adult unconscious and the my life and way of thinking. She sake, "But I game to different conclusions than Freud

from my patients about the repression of Triday Miller has departed from the trafrom Froudien theory Early in his work Frest believed that the root of neurose was nature that had been represend in child hond Later he altered his view dociding

structive in nature. Why has Freud's Ceclpus complex lasted so long? Miller saks: Because in the Froudian view the parents. €To be skillful. admired, famous, and then to abandon all this

to do your own way is viery most people. But I had to

do this in order to become free ?

not the child are innegent. The President sugus wishes that lead to his killing his lather merrying his mother, and utimately

Traditional analysis, says Miller, dublicates the peent-chid relationship with the power But there is hope in therapy if the thoragist is a frue advocate of the patient his discovery of his real history must play a role in the treatment process. The child undergoes a long eyer struggle "between the fear of loang the person he loves if he remains true to himself, and pains at the prospect of losing himself if he has to deny of this nature and is forced to conform begause he cernot survivo by himself. Then any should not repeat the condition."

rigal turnisation, sharing fear and guilt as

conformity, suppressing curiosity and emotions, a parent reduces a chief's ability to make crucial perceptions in later life. Children are missent They learn recker-While Miler's work is ignored or attecking by the orthodoxy Januarian than analysis of hidden crustly and the roots of violence Arthropologist Ashley Montagu

the history of psychoanalysis nected against a specific type of pedagogy" Miller notes "but against pedagugmant attitudes-including "permissive" 

Interviewer Digne Corners also a paycharterapes wared Miler in her approment near Zunch. Small in statute. Miller radiates a sense of both caution and fraginess or society's resistance to her work.

Great Why sidd you make respect for the Milet: I looked from the beginning, I think from my childhood, for the answer to why always needed to understand and make things clear I dign't get much information covering an explanation if I asked I was

Maybe I was five years old when I saw a woman with a child. The cirl was three or four. She fell down and was but Her mother who was talking to another mother crying with bloody knees. I remember my first by falling down and then by the mother. Why does she curish the chief? She is not

punetrnere One: Did you ask your mother? Miler I did not does ask this curetion, but if was the "prequestion" of my life. Then I

saw the war, and I asked why people has They must have a hidden reason I quessed. Hound no answer in philosophy and none in psychotralists I found it in the later years of my life when I teemd the listen to the child in my petients Miller uses the phrase posonous peda-I had to forced the theorem. Even Froud says that the child is quity if he is hurt. The gogy to describe what we inflict on chioffici is always quity. The mother of my dren for their own cood out of our hypoc-

chiefhood memory was angry that the child atriond I could see that because I was five

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You know Anderson's tale. The Empres

others who say he is weening clathes be-

orolessionals my politraques so I spoke

Days: Way on some professionals deny what you re saying? Miler Because they are not allowed to face spoke to about three hundred analysts on child first they reacted naturally were said

Literarched TMany man had learn in their and didn't know any freezes at that time otherwise as frichtening or dangerous. The

vasc But the Gorman review Privide did Miller: That neurosis and psychosis nitrull

Taxiby we know that we have a lot of child

he would be killed by the pain Greek Might his happen so easy in the

Miller. The words have to be found. A good. a signitched to a taking ched. The child tile But now in therapy if you have a therment who is mally your advocate your

you become a taking child. Thesapy exists

Own: What do you meen by advocase?

brand so strangely and humbrid fam were well meaning be carried their bits pair. nets. It is a crime to best a child because change this residy. A battered child feels humbiated confused soleted and he sipassed from his out. But we really fail to

ness because in this way we also beavy Gesty How do you doub with pain in the

healing process? Miller Plan is the way to the fruth. By do avoiding pain causes blockage. Yet no body can confront being neglected or hated without feeling guilty. "It is my fault that my mother is cruel. he fanks. "Imade my mother fundus, what can I do to make

Those are some insatments whose the patients dry a lot-they really suffer-but do not talk. I saw a videocasseste where he report on what he had hit But in my nomino et la important lo speak, to verbelthe patent fell as if he were in the world open up in the passet. The therapist must not preach forgweness, or the patient will represent rage wil took for a scapegood

Query Doyou think the child has no history



bula rasa on which experience inscribes. Miles No Literal The chiclosmes from the enced in the world. But he doesn't come reacty to love And the child can lovemuch more than we grown-ups can This vies of the child as a loved being meets to defend our parents and to blame out selves for everything they have done.

Orees: In what ways does your style reflect those vitas? Miller. I try to much the child in the readers. allow from to fee! I see my style at striking can go open their own door to find somethere Or they can say no 1 don't went to go through this door. I will return the key II by to evoke fedings images in this way I offer keys to your own expension You can then go look at your children and learn from own excertence can you really learn

wanted to understand the most abstract ideas-of Kart, Hooel or Marx, My dispertanon in inhiosophy was very statistics. build a big, big building in order roll to fine

author and lecturer? Mile: I went to inform people that there is no one person in the whole world who abuses children without having been Abused as uchild 1 think this lection is one crail and can help to understand a lot of things. As an arrelyst, I couldn't share my findings with anybody of this profession. It wasn't nossible, and I had to understand why not So I wrote my first book. Thou Shell Not Be Award Again I was in the pople admining the emperor without clothes wanted to understand this too, their mo-

tave Why are they not aware? my work. Ashley Morragu conterned my view of the chief, and I also found confirchild abuse. Mortigu sent me his book. Growing Naung, in which he guoted the tamous Prest prochaggives Edward Glover fart as "egocentric greedy dirty violent in termoer directruction in hight, profoundly sexual in purpose aggrandizing in atttude, devoted of all but the most psimilive realty series, without conscience of a moral feeling whose attitude to society as repcoroadenate domineuring, and sadeto "So for all practical purposes is a born cremna! This view is democrate to humanity We pretend to give the child the norms of

society to make him into a "human being

area Nem also saw the infant as a destruc-

50 DMV

two costs on I code talked to a Kierrati arrefyel a nice young women and she said Haven't you seen destructive belief And I said. What do you mean?" She said Small strings that give you a slap "And I said. Why are you so appelled by this

you believe it is wrong and bad he will feel wrong and bad will not understand, and will finally become destructive out of thes trusting or hating and destructive

arelysts to your world. Miler. A Durch psychetrist trained in the Kleman school cace worsems. "What you turned around everything I had learned

Each patient is a history and I learn from When I say I dilike to open my eyes and

As a child. Hitler had no witness. His father

destroyed averything he did. He could never tell anyone the pain he was

suffering. He was troated like a dog?

to what (Frederick) Lebover did with the newborn Somany people have witnessed birth, yet robody saw the child was suffering grying out in psychic pein Nobody could feel with the child. They were conwritted it was recessary to my after both Lebover said that this pain was unnecessome minutes after birth," he said. Many mothers know he was night but not the professoration, who still prevent mothers their newborns. They learned thirty years ago that it is recessary for the beby to screen and be sparked, and they got-It is the same for my work. To protect what they irented the professionals to more what I'm showens them. What I bbower did for the newborn. I'm trying to do for the picer child to explain he behavior

to bring satults closer to his suffering, which

As long as we dony the child abuse, we

can talog it We set call it upbrisons, I am

frenci to issen to the child's voice, make

people aware of the child's feelings, feel-

Greek Do you think painting opened up a Miler. Because I could begin without thecretical knowledge, without luggace neety. as a child. And I had so much fun when I began I knew something was going to be five years of painting enabled me to write playing with thoughts. And as I expenenged creativity in my panting. I became

learned as theory present feeting with loss of vitality Was that

Miles Yes, experiencing the pain of my Yo gave me back my visitly First pain then depression. I also had to resist the usual way of learning if you are forced to do tivity I learned when I played with color dearring, and writing have something in pommon I cant as I dream I have many impulses and associations. I never have a have a concept sometimes, but I cannot spaling it because while pointing I start to dream of something else and I forget my salve style. I wanted to tell a story or a

ine its improvedon tid say i amparting Edon't want to make a masterpieca, or ewer good pictures Forturetely I don't ears to the suffering of the child, it's close pelled to work further and further into what is true. Sometimes I destroy my paintings and I'm happy because it's what I wanted or not In painting I feel absolutely free I have my paiette my white paper and no-

body can fell me what is night or wrong Over You admire Gove and Turner? Miller Three ass not moviale for me had and denly they absolutely changed their styles Gava, who ned made wonderful portraits. began painting ghosts and his inner world And Tumer began painting light. And when people began to say. This is not goodyou made reely good paintings before. they needed to do So for me they are as

Progso too did this su many times. To ino-to be good skillful admired famous. way-a so very frightening to most peopie. But i had to do this in order to get in touch with myself to become take. Otherwise if facilities I liem in a proon. Ower, Who are your hardes?

Maller: The other I become the loss I have become my facilities.

Miller This order I become in the lost in two Mobiles from the I become in the lost of the Mobiles flowly from the I become for the I become f

much time and is not really devative. Greek When did you ultimately decode to write The County. Miler Oh, it was furnly Adually 1 didn; 1 told you 1 did is paper for a conference

then I wrote profession Alberta Greater profession with the Geream professions in mituged for professions the theorem to the fact that the later of the work for the paper and mode all ride a book. Afribugh I wook in all three weeks: 4 was an expression of tearthy suits expression of tearthy suits expression of tearthy suits expression of tearthy suits expression to the state of the publisher in Sectional way of the work of the publisher in Section that they had also deliver the three publisher in Section that They had also deliver the publisher of the publisher

books from parameters. Then I sent it is sufficient, or present German publisher. The older telephoned me the nod day land. The clotter telephoned me the nod day land control of the nod day. If the clotter telephone control of the nod day. If a settlement in its so travials? And then the publisher come to vise the and said. "Quality I table, now trait sorrogs from with me all surfame that sent outputs table my right its or land is I didn't relatin to sent the control telephone to good the sent of the control telephone to sent the control telephone to control telephone t

softed that make as big discovery."

Grave Dees response to your work drifter from causary to country?

Mader Yes. The Scandinavers formed, Holl and and the United States are most the roal and open Meet of my books are seen in Germany. But them, Certimors are side in Germany that their positions predegingly Swiss people, too So many are not

my work discribes the education of the inneteenth century. They don't realize that they still his according to messanith century values. The response is also a seation to his lets time. The detail of Hills is so bego that the Gamma control less from the first total Age of third. Hills had no winese, He dark destroyed everyting he son der he could novel full anyons the goess he was suffering in Sederal Index made a play He lets Childmand, term a chapter in ny boos. The delay show hear had that looked for certails frenged for a glance that west constainty speaked he a dem.

certain, employ for agricon fast was constantly facilities and one of the certain and a stantly facilities and a decident and a concentration of the certain and a certain and a consection from pagine who already. Have become aware. Their awaterness as not collamaged by themenia fellow Petrod and three freedy, so these slagarieses can face what I write use in the most Proy can what I write use in the most Proy can their certain and the certain and the certain feet can ready freely.

instany. A hadroy of being molerated is himbody claiming. The dense is also questioning us. But if in agranted by spoorty and spill and investigated by the posteriorate in ref. in holds the large to our understanding with piere nonsense can be self heise in high release in our culture such nonsense as bagmund Floods deal that a child would in vert insurans. Others Are Retin coulage that have a diffuscioner. Are Retin coulage that have a diffuscioner.

ent attitude toward parenting?

Miler Despte variations in cultures abuse is found in almost every one But there are



see people on an stand of Mateyuse called Sono-who have a normalant outsite. They take with time children about of corne each manning. They never have find was four culture is so valent backase as children we teamed not to feel. Deany Whys is greynell are your thoughts.

about desires? Milder Deserve tell me the story of chickhood: but childred transformed. The popularies of the provious day are moved in Desarve sometimes revised represend hour mass but they also help the deserver to master them. Deserve are a creative force week truck have such south when the com-

every stopy to be such might when the conposition of the control of the control

monesses and podagogoed structure, and whole of brigging popied info straightees show where they estamation chadle feet to be a compared to the compared to the coal hold perify of insegnate the and harmful sections and installation of techniques test don't provide with offset in provide a systematic operflootation with the past. Some flower product with offset in mysical offerings or with that unresolvent pair. This past past of the past of the past of the past of the past themselves by seeing dusing in single sector grants or idealing to other ways of de-

of security and alleguest Political activities to the security of the security

Collect Try to first it was freight to potent be their instead of Laking to the primari should. We their design of others if the potential should be the dark reside. Martised to purmare to the potential should be and corn farget that its possible should be written to the potential should be written to the potential should be written to the potential should be sometimed that collect Should the sometimed that collect Should the sometimed that collect Thereight has be colors and the sometimed that colors of the should be sometimed that colors of the sometimed that colors of sometimed that colors of sometimes and sometimes and sometimes and pour was sometimes and the sometimes the sometimes and the sometimes and the sometimes the

stead of help confusion I have a letter from

Approximation of the control deput of the control d

hady indestructable and on ability to new hours the action remains as long as the body claws breath. We obtained affect children? Millor Children who have really been body on projected will not be indestructed in these three and shower and will not be in designate. But the child who was hart and humb-

6Children who have

 Children who have been loved will not be interested in

violent TV shows. But the child who has been hurt is looking for material, an object on which to take revenue.

aboli—maybe at exhaut not inconstantly by his perints—a looking for outcomes. For material he is looking for autoomes. For god on whom to take revening Off ourse them are people who make a business of the constant of the constant of the constant to the constant of the perint of the constant of the con

discipar Protected and loved childhan can not become manderes. It is impossible to find one person who was not beeten who beens a child Owner. Why does violence beget itself through the generations? Miller If you go back you can see that the

Though the production of the production and that he begins which was a busined. But in medicated you will not here in from their or he begins with a busined with a busined

Gener Do you think a child can experience abuses in the worn?" Miller Of course Each child has do own experience, can't experience are linearlycome to the course of the course of any course of the course of course course of course

lated to cross
You heard shout the Micharin School in
Los Angeles? After days are control
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to say, when I agreed to be instally accounted into the data in registral counted into the data in registral counted sector. Above many large feed of and We counted sector. Above many large feed of and We counted workers and reference when the sector of the counter feed of the sector. The poolem is that offeren sealed the account formation in above in the counter formation in above in the counter feed of the poolem is that of them sealed the account formation in above in the poolem is that of them point. They perhaps any I maked of the member of provides after the counter formation of the poolem in the counter formation of the poolem in the counter of the poolem in the counter of the poolem in the counter of the poolem in the poolem i

evented, a real event happened. Ozene Can society learn to understand the child's lenguisge? Milec! hope so Otherwise we will commit.

Make. Hope so O'chrevey we've Correll
a marca scup own he hairpet leschedopy.
The order language door with own order language order with own order language order with own order to strate and claudy from the line internet of their less, thorse to the secthology in the hope time. The abuse is stated up in the lined out of on internet makes and order of their less of the language of their less of their less

of a person who will console him and will have all his which has arms that the special of birth is done to be the pering a reportion of him should be determined by the histogroup place, and include you have been as according to the histogroup place, and include you have been as according to the street of the street of the street of the place of the street of the s

## There is a dry place in this wet & windy world



and high technology instead. And we think f is good for the child-priy because we Deser What would you like to do now? Miller I would like to support people who letter from a child therapist in California

less close in which the children were geting and found these hat begoes used in one person can make people sweep that methods they never questioned before are truth by colling it ambivelent parent's love

a struggle and we don't regize that he eity to react it, to defend himself against Omey Can you change this behelf-Miller I hope so at least party. My life sort

abuse and on the guestion of how I can transms what I from Invent about c to

In England, where I we given some racks shows, interviewers often say. You talk child." The interviewers claim these forms serious, and they aroun that although they

child gan avoid becoming a criminal if he has the chance in childhood to meet at least maybe even likes han or understands him sumpathy would help turn to recognize their followers who in their childhoods reven Other What about the mother frame of con-

bal humistion? Miles. The tragedy is that people insided this way-even if they don't become like Hitler-pretend that this lend of treatment

1995 and I see this delay as one of the

Fig accord bombs (QC)



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EARTH

and holds a Ph.D. in animal behavior. He stimp earth. The fabric of the clared is Todd and his colleagues at the New Alnhemy and Orosen Arks Institutes concentrate on creating new ways for people to

in a sectool tall translucent hiperplass tank. Denne populations of 1sh are resed in provides the assweed with the carbon ides. The clarits sozend their roots into the sans can being damaged eroded land back.

to the Awardy channing of the numerit non-

trong of economic value, such set to or etation. This way people can afford to stay torrest assistativad module termers can transplant the rows of tenks to another all over again. According to Toold, "This bigging neering can re-childs the occurre-Pending final testigation of contracts by

ciases are planning to erect major agninostotation projects on land declayed by ston of coastal desert in Morocco. In the to 300 feet long galled a biosheller will anclose a cluster of desert farming mork live tark water meeture wil form reads the it tems, watering the vegetables planted reade" says Todd, During the day the

Boothy, After you'll of stally into actions coopering micrographies that elements coopering micrographies that elements abditional they hernosed the microbial help of the form model in high ord the survivante of their models and they have been created to the properties at the fleet Models have cost pointered after fleet Models have controlled their process. Jumps refined the text model, which come purpose the commercial on their process. Jumps refined the text model, which come purpose the commercial to the commercial and their process. Jumps refined the text model, which we have the commercial to the commercial text of smultaneously decovers the control of their process and smultaneously decovers the control of their process. Control English markets. Microcommercial text of their processing and their processing and

sensi all'articologi. Il viul altro il responsabilità di la suppressiona di la suppressiona di putati il mantino di la suppressiona di la suali il la disputazioni di finanziona di la suppressiona di mantino di la suppressiona di la suppressiona di la responsa di la suppressiona di putationa di la suppressiona di putationa di la suppressiona di la supp

motiva since florency our hockmaps are fucious by a floreadhood the enrount of historical wide for the products dudge. The in melmotic this products dudge. The products dudge in the products dudge. The chainer emilions of gallers of contamtated water a lay reformed at all how cord then covers deposes processes. Their wood come that technology above, historical products of the contamination of the products for more rewoonered producted in products for more rewoonered producted in products for more rewoonered producted in products for more rewoonered products of products for more rewoonered products of products for more rewoonered products of products for more rewoonered products products and the products products are the products products and the products products are the products products and the products products

Tigat Do The large mission to arrive of these potential present of these potential present such as and high solution and management. But as a tool high solution and management but as a tool high solution and the solution of the solution of the large arrived and the solution of the solution of the solution of the solution of solution of the solution of solutio

and how much dineeds.)
Porhaps the most basic environmental need is for furnantly to undergo a "puesi-oligous transformation," in the words of saferford coologies Place Enrich. Only thou might see safur the living broathing crips, smithat a Earth for its own safe, spart from the benefit is crivers in the control of covers in CO.





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UFO UPDATE









## CHILDREN

I don't exactly remember Maybe a clus? Rus better he could offer her another Canttak row Mrs Japa

piece of his mystery he heard voices Cali me Versassa."

May 12. His table bicorrect in the warmth of her beneficence. 'Wassessa the host I may be replied. But if you

see me in company-"Precisely Au muse" He closed the

penel in the door and she heard has lootmot arrived several manutes been bearing a tray of toa, she was all smiles.

Her outburst of the previous day seemed after housided, Mr Klein called in brioty into the grounds of the place (with Caultomot in attendance) so she might enjoy the sun. She was further supplied with a new solal from the owesty garments she had derwoat the tectified the cictios had been rundend at a I suggested Mr. Klein was not

quiere before the rather obsuse manager of ser bry hotel reaked that she west? coming back and in that event, what would refronters: periseps frey would find the porses moral. The car was period in the laurel-tree enclosure boside the gate and, to sudge by the copious blessings rained

Others in the place had found divergrounds that morning the could districtly a nearby countyard. They were raised in

exponent What a poing on?" "They're playing games," Gurllamot re-

"Can we watch?" she asked casually \*No-"I like marries" "Do you? he said. We'll play, then oh?"-

suspicion 50. CMN Why not?" she said. Wrining the man's

clearly pinksed lism. In the adjacent courtused the niquers now went up a din of to sides by the rangled calls of encour argment and the subsequent deliation as caucht her listering. "Froon," he said. "They're racing frogs.

Once her attention focused on the sound of the games, she could not drive the din from her head it continued twowsh the be assumers. They were the credition.

manafroas Butin teu of more nounshing diversions, could she blame them? When

Sha lat herself out of the cell, then she humed along the closters, cleaving to

the charlows She found her way into the yard, anusing to work out which way the exit lav?

that evening, almost the first thing she said. was, "I based you the morrang, in one of the countyards This afternoon loo You agement to be flaving a good deal of fun. Th the games. Gomm replied Tiwas a busy day So much to be sorted out. to let me ion you? I'm getting so bored "

Proc Veneza I with I could help that worked at the moment, especially with Ownworked she thought risking frogs? Fearing to offend afte chant voice the doubt "What's going on here?" she said.

Gomm boked outraged "Commati?" "No Lunderdand why you asked it must strees you as odd our being locked up here But no, were not criminals

"What then? What's the bec secret? ing "Eliteliyou, he said, will you help us to pet cut of here?

Your car it's at the front Yes I saw 6

If we can get to it, would you drive? How many of you? Four Treovisions there's ispowe, there's

Floyd is probably out there somewhere but be'd set token to look after himself. wonths? it's a small car," she warned "We so small people" Gorrm returned

but And were old With Floyd we had those handred and ninety-eight years between is All that before experience," he seed, "and

In the yard outside Various is room, shouting sudderly erupted Gomm disappeared from the door and responsed Oh my God, they lound him? Then he fled Vanousa constant to the window and

peered through She could not see much of the yard below, but what she could see was full of frequent activity, sisters hither ing and fathering. At the center of this commotion she could see a small figurethe number Flowd, no doubt-strupging much the worse for his days and nights of iwan rough his dropping features drawd. son. Variesta heard the voice of Mr. Klein. me above the babble and he stepped into the score. He approached Floyd and renceeded to bende him merclessly. Va. nessa could not catch more than one in overy two words, but the verbal assoult regardly nectuced the old men to lears. She turned away from the window sciently

So far, her time here had brought a cu nous extinction of experiences, one moment pleasant, the most unpalatable. And the function of this preon was why it only self) and all so old-struck by age, Gorro had seed But after Kleans humiliation of however pressing would keep her from The prolessor did not come back that

evening which disappointed her. Pathaps signers about the place she mercrack though that principle scarcely applied to her She it seemed, was practically longerten Though Guillamot brought her tood and they had arranged not was she escorted without company has mind undisturbed by she rapidly became listless and sleepy

indeed she was doing through the middle of the following afternoon when something hit ha wall outside the wardow She got up and was crossing to see what of the loor She wort to sneeds a gimpse of the sension but held gone. The tiny perceives a less excepted as a now weeker, as rever yours, as success.

The weaking to the control of the co

iemptry, with the soor open and the possageway out in the son dost to days the others and make a basis for it but H.D. And doubtless taken some ask acquiring the key this owerd tern they allogance. After this, there was an owner dooring sway term after basis a footstep in the closes of a block in this year they was uptioned on a block in this year they was uptioned on a block in the year they was uptioned on a block in the year they was uptioned on a block in the year they was uptioned to the son and they are they are the distriction of the son and the son and they guiltoned proposed with a methy case and

consists of a should in the year, the was up and report, But Gomm's oak district come. The shemous charged on into evaning. Gallent appealed with enabler pace and a bottle of Coco-Cola for shriner and before the first of the control of the contro

all no sign of HTG. or the promised use in sign of the support the word that does the togeth or support the word that the promised to it. If so the were all bring promised to it. If so the read that the promised to the read that the read that the support of the read out the readment of the promise the chapse softened, with all the support of the promised that the support of the support of the promised that the support of the promised that the support of support support of support

Solid hered bard for out and suspend chiefed by the formed stopp to color chiefed by the firmed stopp to color could. There was no sign of human prescept. There was no sign of human preslevant and sheet good for no site owner when the stopp stop to the color stopp in the stopp stop to the color stopp in the stopp stop to the color passed to such as it when the was which regard that other way to see till by some stopp stopp stopp stopp stopp stopp to the stopp stopp stopp stopp the stopp stop

it was empty but for the laurel trees and

HAPPY B) 100 LIGHT

ON JACK DANIEL'S BIRTHDAY most folks like to bake a cake.



Some of our employees gather in the office Mr. Jack built when he started our distillery in 1866. And down at Mary Bobo's boarding House, Margaret Tolley has chocolate cake for everyone at

her table that day. No, we never serve Jack Daniel's Whiskey on these occasions. (Lynchburg, you see, is dry.) But we hope the law is more lenient where you work or live. And that, come March 25th, you'll find time to raise a glass or two.

SMOOTH SIPPIN' TENNESSEE WHISKI

Tenances Washington Door Front-Circuits and Berlief by Inch Count Datable

make no sense of the firing at link, the pattern seemed to be p.s. that - a pattern. She stateed it along one edge trying to fathors she was waving the order pacture upaids rates were marked and the opening and continents consengued with hundreds of chosen zones. Many of these had been down and reduzen in chek, as if in response to daily intelligence in some re-

sourced by scribblings Execution game between her and her salkey She dich't heer the lootatoos at the out of hiding and into the moontaht. She was about in revise a run for it when she

"Don't move," he murmured across the She did as she was instructed. Standing

capased to where Vanesus stood "What are you doing here?" he de-"We didn't pame" she accused him " frought you'd forgotten me."

Things got difficult. They watch us all Tooutint go on wating Harvey This is no place to take a holiday You might "he said a picture of depic

non "It's honeless. You should make your getaway Forget about us. They I rever let

Vanossa took hold of his spingly own. "I happening here

Good should Perhaps you should know Perhaps the world should know. He

ero at the turnor of scrawings on the courtward floor. He sughed: "Of course 6 ways t always games. But systems decay with time intertions, and in two decarloss neo obcasies he repeated as if the fact apposited from afroch

You're not making much sense. Harves Varieties said. Are you being deliberately one see or is this security? He prickled at the accusation, but it did

94 China

world, he delivered the next words crisply they were on the verge of destroying the meeting of mirels. The leaders of politics ates... the londs of the earth...... one color to a see sworld affect should be overseen by

a special committee made up of great and influential minds like my own-mon and of political layor who could offer some custing perceptes to keep the species from

♠The ausrd ascorted H.G. away, and the cantain lingered to

mumur. "Who's a good boy?" under his breath, then followed. The courtvard.

was empty again but for the map of the world?

man erideavor—the best of the best an retelectual and moral side whose collecthe warriers would be not a provide the same Vanessa listened without vocano the

And for a white, it really worked. There were only transport of us-to keep some consensus a Bussian is few of us Euro peans clear Yorrycko of course a Now Zonorder a couple of Americans high-powered bunch. Two Nobel prize writers, myself included-

New she remembered Gorrin or at least where sheld once seen that face. They had both been much younger. She a school Our book was to encourage mutual understanding between the powers that bis. structures and develop the cultural sten-

Gorren made an exponence greature, talk-

ing in the map in front of him. "Helping to dwde the world up he said. Requisiting too thick. It was a great responsibility but we firsteen were sharmo the world and that nobody but the highest echelons of gov-This thought Vaneens was the Napo lean synchrome will large. Gomm was in-

deputably risone but what abaroic insan wasn't capable of doing damage "It seems unfair," she seed, "that you're locked away in here-Well that's for our own security of

course ! Govern replied "Irregine the chaos. if some anarchist group found out where we operated from and did away with us went by, the potentials -- knowing they had us to make critical decisions for themconcerned therreshes more and more with less with thinking. Within live years we were

lords, juggling nations "What fun." Watessa said For a white perhaps. Gorrm replied But the glarpour feded very quickly And

to tell Half of the committee are already window Buchanan-the New Zooancies-hard syphilis and dight know it. Old ace caucht up with deer Yorkelo, and Barrisomer and Sourbutts I'll catch up with all of us sooner or later, and Klein keeps. prometing to provide people to take over when we've occur but they don't give a damn! Were functioneres that's all Tric happy Well -his voice dropped to a

whaper-were olynoid up Was the a moment of self-makingari Variessa wondered. Was the same mon in You want to get away? she said

once more before I die I've given up so almost drove me mad - At she thought,

he knows- "Does it sound sellet if I say preferance to power "If it does it does Impropertant I want out I want Keep your voice down she advised

at do And we thought you could help us "Whores?"



Why are you looking at me like that?"
You're not will. Harvey: I don't thrick
you're dangerous but...
Wal a minute: "Gomm said." What do
you think I ve been tating you? I go to all

Harway It's a fine story— Story? What do you mean story? O see You don! believe me do you? The

world and you don't believe me!

'I'm not saying you se lying...

Is that it? You shink I'm a luntio!" Goram
explosed. He voice echood aboure! the
rectangular world. Almost immediately.

explosed the vece echood around the rectangular world. Almost immediately there were veces from saveral businers and fast upon those, the thunder of fast. Now look what you se done, the ead "the done?"

"White in touble
"Look H.G., the doesn't mean—
Too late for intractions thou stay where
ou are—I'm going to make a run for a
latifact them."
He was about to decent when he turned.

back to her cought held of her hand, and, put it to his her. If him med the said, you made me that way! Than he was off his short kega camping him did all a spheld across the yord. He did not even modified he howeverbefore the guarde amned. They shoulded for him to stop. When he bated to do so for him to stop. When he bated to do so

one of the men field Bulkin plowed the ocean around Commisted

Wingto, They deed, coming to a hat and published his hards in the arrow West published.

The firing stopped. The guards parted as their commander stepped through. On, it's you safety. High said to the caption. The man visibly finctions to be so addressed in frantic sifeting ranks. What ere you come us at this arms of

right? Satiny demanded
Stargazing, "Governapped
This weight alone" the caption said.
Variessal haart said. There was no route tack to her room without crossing the open.

mitted Suffernot would probably be checking on her.

That's true "send Gomes "I wann! sions. Hed she offended the old most op much he was now going to betay her?" I see the woman's you becapit in...

Cantibing over the walf the said. and swing around to order his captain seed, and swing around to order his man in pursue. I said to that' Carrim was profiting. I said that thesels your note, of this prothe wall found an better off waiting until they open the galan.

Gomm protessed. If don't need a bedtime story thank you. Go sets tim.

The guard crossed to H.G. and escorted him away The capital largered long.



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es you re likelying for a value sy

industane concern. Which is line with as because Softenia beperior is renowned to its proster quality. However, when you look at our Sussess would the benefits of its other features. The

ocial) the feeterfits of its other features. In 178 chained capability for instance. The built-in knowless genero sound. And the available parental control to let you dock what your children watch. And networks the Superior Lord

part of the Supersystem. Shee's the new Superformers 44<sup>th</sup>, a seriode conflow and advanced or works with situative any winds is remote VCR or cable system. It's particulate people.

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The point is that there are plenty of reto how a Supersystem beside the prest of porture youngs with the Supersys Origo

## SYLVANIA

61967 N.A.P Donormer Electronics Corp A hords American Philips Company consuch to murmur. "Whois a cirver box School? under his breath, then followed had ded and then sipped out of hearts

stong a passageway that let out into the

yard with Our Lasty of the Electric Eyes She crept along the wall and ducked beneeth the status gaze and out finally to most the gates. They were indeed open As the old man had protested when they d

guitte and she thanked God for it the sound of boots and glanced over her shoulder to see the captain into in hand,

idegicing from behind a tree. "Some chooread Mrs. Jope?" seed Mr. Klein This is a lunate asylum, she told him when they had escented her back to the management sport "Nothing more nor less.

and I said. What shid he had you?" Klein

Much against her will she found herself sheking at his outhurst National management she replied These

more i firrik youre all means of like to know Mrs. Jape. Klein said

his fury abiting. Humor me He said there was some kind of pom of them. That was it for what it's worth."

" told him he was out of his mind." is a complete fation, he said Of course Jesus Christ don't heat me

Ap an imbedie I im a grown worsen-Ho said he were a professor Another delusion Mr Gomm is a para need schemotyperso. He can be extremely

dangerous given half a chence. You were prefty lucky

"Has not alone I've heavilthern Are they all schoopherson?

trough their conditions vary And in their been killers. He payed to allow this inforkillers. That's why they have the place to themselves hidden away That's why the 100 CMN

She oponed her mouth to ask why they as a sumsating for you to be here. he said

When my rivistigations are complete bonwould be appreciated if Mr Gorrma

to my encoglistely. Will you do that? Tsuppose-And please retrain from any further excape attempts. The next could be fatal.

Tomorrow maybe Mr Klein said

nose sienn

Which she debated with horself when

6He sho

on the floor and stumbled against the shower yelping as scalding water met his scalo. His rifle

· clattered to the floor By the time he righted himself, it was in her hand.

atventives by Goren by Klein by her own

hallyend locked up with little hope of eeshe was lost. She by awake furrang the magazine alternatives over inherhead. By

teled to show it was possible that events Kien signed. They're all deranged soil however Guitamot come and went with load, with divik, and—in the middle

picked up the got of two card poker quite rapidly and they passed a command hour

Do you think you could arrange for me to have a best or at least a shower? she

tray tratewoods. It is preting up that I don't IRE THY OWN COTTONEY He actually smiled as he responded "I'll

He required an hour later to tell her that

Are you going to scrub my back?" she cossually inquired Guillemot's gyes fackaged with period at

enforche tallowed trying to keep a mental

from printing and the regnitled walking washing was not high on her list of priori 18 be guisede the door. Guillemst said.

as promising, and closed the door. Then the foor. When the bathroom was sufficently valed and the foor sufficiently stick. she called Guillerrot. She might have been

raintered to the floor and by the time he

If you move a muscle-Phose dont shoot 7Mow twice me to Mr Gomm and the others: Quickly and quictly that take me the said posturne with

He did as he was told meekly leading her out of the building and through pas of worship it briefly occurred to her that the place had been built to winstand a ruthe fact that the comdors all loc down if this was an asylum, it was built to house

> What is this place? she asked We call the Bouctor Gullemot said there was title happening at present

to tace with a woman on her hands and kness scrubbing the Incieum The encounter startled both parties, and Guille mot was seed to take the intuitive. He knocked Vaneses sideways against the

venture it led has through a series of rooms one of which was lined with downs of of which continued upwards of lifty black talaphones, the first and largest was lined way showing what she first took to be a mud wresting cornect but was in fact a and watching it sprawled on a chair with

Wheels Gomm and the others?

Where are they? ' she demanded

Cushly! 'Down the trail Turn left and left again he said. Then acided, "I don't won't to the Why don't you? she told him. As she

backed out of the room, he fell down on his liners while the mud wresters ca-Left and left again. The directions were truttut. They led for to a sener of rooms caution to the wind, she pushed at the

102 CANN

plained at being awakened and asked might be filed roof and whiteweshed walls, Vanessa, he said bounding out into the complex. He was wearing a long west and

The others were appearing from their mores pleasy eved with sleep hirtys First Mediandread Goldbard She could

Wake up you old burgons: "Gamm said

morned His hair which was bright white Thoy if he have norm - Ferrya saxi

No matter Goram replied Floyd was already dressed "I'm ready But were outrumbered. Vancessa protested. We'll never get out alive

 He revved the car until the engine fairly was flung up and through the

gag where the door had been. A goat fled from the path ahead. avoiding death by seconds 9

She's note " said one sourrang at her Shut up Goldbert, Gomm snapped "She's got a gun hain t she?" 'One 'said the white-harred individual This must be Mottershead. "One our

Im going back to bed "Goldberg said This is a chance to escape. Gomm said. Probably the only one we have right. Has note" the serror used "And what about the games" Goldberg

remoded them Forces the garnes 'Floyd told the other its too late, said Varieties. They re-

of the corridor. We're trapped You are straine " she lold him plantly

twen that much, the said Thorston of Goreen said "Toll them of Hex note said Flovid bearing now

Yearn out of your minds." Goldberg muttored. There's nothing out there for us blocked off at either end by a mass of

Put-fown the weapon Mrs. Japa. Said a familiar voice. Mr. Klain had appeared among the theorg of quards. Take a from

heatardy. Then again, the time with more fall them all before you shoot me

I soo "said Klein quedy "And why do

knatos latens We body know that ign I frain," said Visnessa, garing confidence from the area meta your bullyboys and do as I say

Mr Klein hautsted, than signeled a gen-Commis eyes gittered "Noxly done" he

Why don't you lead the way? Vanessa phones and video screens. Every step they the ancests to ask calling her bluff. They The outside were in gwelence outside

> tuns as feey headed through the years to 'Gorms, shewhapered 'Open the car

Grown chick so He had sed that age ghrenk them all, and perhaps it was true Vanessa was the last to get in As sho ducked to dide into the drawing sear, a shot tron out, and she felt a blow to her should Leave her somebody piped up in the

back, but Gomm was already out of the henself and started the engine Can you citye? Issnyy demanded

the coles, the coars grating Vienessia had never been shot before and award its hispening again. The wound in drwing made any stally constructive help. principally impossible There's a track-- she managed to tell Which way a that way? Gorrin valuat

'Right' Right' she water! buck. Gorrm took both hands off the wheel and looked at them

Which is not?" For Charle sales...

irenva, in the seat beside tem pressed his bands back onto the wheel. The conperformed a tarantells. Vanessa grouned

Lase of "said Comm." I see the track! down on the accelerator One of the back doors which had been

madesunitely secured fluored open and reaching over Floyd, vanked her back to salety, but before they quick close the right. vergence of the two tracks. The car bucked

as the cloor was torn off its hinges We needed more as in here," said Theirs was not the only engine disturb. ing the Aspean racht. There were below

suit. With Guillemot's rifle loft in the convert they had no sudden death to become

with and Klein knew it Step on it? Floyd said growing from

"I'm going as fast as I can, Gerrin innisted Turn off the lights," Ironwa supposed or "It if make us been of a tworet" Then I won't be able to see the track

Gomm complemed over the engine roor "So? You're not alwing on it anythow" Motersheed laughed and so-eganet her better instructs---clid Vanossa. Maybe the layer of blood was easing her mysoon. sittle, but she created help hercell From Methodiahs and herself in a fivog door car driving around in the dark. Only a mad-

man would have taken this senously And there was the final and montestable proof Put thirse people weren't the lungers Kiren sincing as he chose ignotiches of Yord; and a failetto rendering of "Over the Rainbow" And ri-as her dizzied mind had conokated-frese were crestured as some as-

had told? Was that true 100? Was it possesble that Armagaction had been kept at bay They re-gitning on us!" Floyd and He

Were not going to make it. Monors. head observed his laughter barely abet Were all going to de-Throng? Isoniva yellind "These's another (mack) Try thee! Try thee!

most appeal over as it swung at the muotrack and followed that now muse. We'll the

lights extinguished it was impossible to see but Germs style was not about to be pramoest by such minor considerations. He the gap where the door had been a goat

Whose are we comp? Vanesas velled Wherever they were heading they were

bleng full advantage of the fact. Again build dow on the fer side of the car his hair

"We've lowing them?" he howled trumphanty. Were being thirth A common exhibition several all the

him that the road ahead seemed to dis-

Mrs Jape? Mrs Jape? Vanessa sicky uswingly. Her head furt

the memorios game back. The car rischaround her as the votacle sank. She had struggled free only half conscious veguely

Dead said Mr Kon. They re aliceed "Oh, my God" she murroused She was

\*These's more important business, Mrs. Jape You must get up and guickly

her usowncy in Klarifs voice beraight Ve-There were no sundows in the room they occupied This was the Boudoy to judge by its concrete waits Yes it's morning. Keen replied impetently. Now will you come with me? ( have

a major argument was come our paned They're woming up for the Apora-

have the signed and led the way no the weathers. Now all the video acrooms were later war morns and presidents sugge MAY BE NEWS TO YOU ... but the Egyptians



Powers to overcome sickness! Means to escape poverty! Knowledge to bring happiness and peace of mind! Skill and evenus to create a civilization we still copy! These are only some of ancient Revet's

accomplishments. But, beyond physical achievements was the wisdom of the Egyptian mystery schools. In these centers of learning were taught the laws of life. Men

and women were able to shape their destinies! Successful living is the world's oldest art. It conststs of developing initiative foresight, and the ability to combine experiences into new and

workable ideas. These laws operate as unfailingly as those which govern the Sun. Moon, and planets. They were discovered by certain Egyptusus and preserved through the ages by the Rosicracians.

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"You've been unconscious two full days." She looked from screen to screen from the mighty were waiting for news. But the

Thor/so set performers." Klein said costuring at the shouting screens. They cruidnt run a three-legged race never mind the world. They're getting hysterical and their button lingues are starting to eich

Vanessa returned. This tour of Babel depressed her 1 m no strateget "Nether were Gorrn and the others. They much bave been once upon a time

Systems decay "she said ion that the truth By the time I came

First they still provided sudgments?

Witer a feshion "Kloin replied King looked at the screen. His man seemed to be on the verge of spilling leave "Dign the explain? They played comes

And racing logs of course That was But the proveniments— she protessed

You think they case? Klein said. As long as they me in the public eye when does it Her head spun. All chance?" she said Why not? It has a very respectable tra-

dison. National have fallen on decisions diwheat from the order is of sheep

Lagree But Lask you, in all honesty is 4 any more territoria than leaving the power rate faces. Democrats awaiting that the response of appliance to we, respots in two of his aides, another clutched is redemanding regularities. Were these the nest hus of the political tree—bebtling bullying, caroling idiots, driven to apoplexy

"Retur froms" she murmured, briter

The light in the countyard, after the deed furnished of the bunker, was dazzingly 104 CMNI

of earshot of the studency within They Kinn told her as if this work some way to would find a new committee were such King har viri her it would be a matter of weeks only before equilibrium was restored in the meanwhile the earth could he himen to smitherness by the descerate

Guicherg is still alove. Klein said. And he will go on with the games but it stikes two to play

Because he hates mo Hates at of us

Goldbern was ruting under the launa trees playing patience It was a slow buspass. His shortsightedness required him. to brong each pand to within three inches of

his make to read it, and by the time he had from parch at the beginning

She's agreed' said Klein Goldberg dicht look up "I said She's agreed" Tim bland not deef. Goldberg told Klein. ally looked up it was to squirt at Veneesa owners agulely "I said from the beginning we were been to stay. No use to escape

He strugged and returned to the cards

The way they ded

We were emplying ourselves, until the Green was such a pentmortalist. he seed. We nower much liked each other.

The creature regarded Vanessa's foot hatefully that a frog "she socked

it's for, with three cicts on its back." Than's brisel. Don't tread on him. roon? Non-bulled in Particularly the Gulf

Nes yes, said Goldberg "Go isway -We could have enother Bay of Pigs. Yours telling me nothing I don't know poered at Variessa. Well are you point to

"I'll leave you to it " Kien said, and retreated Goldburg had begun to make a sound in response, there came a groating from

ted a smile Farce, she had told herself once below had to be played with a strends beauting though you believed every outrageous word. Only tragedy demended leughter, and that with the aid of the frozs, they might yet prevent CO

BOOKS

Resident evertually loci her to a bee-Organ (Overs) Located in Stringshee it was and south of String Castle. It was around iem to sheller and display atomb and hely Round Table was in fact, a temple

when wild find these piaces (id have feelings that went beyond any evidence. And in the end it was like puzzle pieces falling non nison." Take for example, her brait sighting of Avalon and the Grail Castle the billo of Man in the leash Sea. The road suddenly drops to the ocean level and you sout a glorously golden beach, beyond which is trky opaque that supplies water runcurded by black rocks and covered flowers. A rany light reflects off the numments of an old stone lower. The scone his Street de Aleman's description "I graped when I saw it overcome by a leading of

holmess, she receils "It was overwhelmngly beautiful and the most owe-reparted Not all Arthuren scholars however are converged by Goodrich's evidence Gootdistratory. She never offers any plans

cortor than the most contary Yet discoveries on St. Patrick's liste at least soom to perallel Goodschis hypothone and for suspans architechnosts' icesorbos they ted as a Chadren-cracian sandwich. On one level they found a Christian cemetery baneath 4 a Viking husel ground Still deaper is an earlier

persunes the era of Camelot But, Freika total is local newscraper, this does not yet More will be learned as Freixe and his anapostes continue their investigation Evidence of floothysters, with sand direct-

its in the ancient site. Goodnich suggests, matri concide with accounts of Avalori humani with her soons hand clutched against her bosom, a possibility that excites the aschangingsts. Even if they findings owe grader credence to her work, though Goodnich doeen't sepect it to quest her critest. "No matter how much is proved, it's a matter of fieth? she says "And like roll

gousteth, you can't debate it and win You eather believe or you don't DO

## STARTECH

## **ACCESSING THE FUTURE**

### 3-D TV

Scientists at the University aystem first presents mages For its developers-Leeds

and his student Mark Harris. coherent image of huge blur when represented in two

montoning system then So like the system-which retails for about \$3 cmo-

ments Although the picture Technically he says. 'It's all avalação Arvero seto trivo broadcasts '-Bill awren



private industry is whimsical Austin Texas, presonneur with a flow for uneveners wals of powdered-quaran Jeffrey Nightbard pages of

form, switching to possible as bed veer A trooze dred All you do is edd water, 98 6°F is still a bit of a prob-

LIQUID GOLD lam The company slogan In response to the growing

Notifoyed who says he is his customers use his irretunt

tests or for exposmental legal problems so far Were Supplier - George Nobbe-Access Byld Laboratores 507 Trinty Austri, TX 78701 The company changes \$19.95

leave your face in General "surgical vecations for people who want to save money

Former company spokes a week, and having surpay.

Say you want a face lift. We will fly conjerts fruit clause SEDON DUTY THE BUTTON OF hotel for a week, and throw in a continental breakfast when you arrive." All for a

average price for a complete \$8,500-and you've still got

-Michael Deto bacs yet Medicars is set corners which are represented shout liability for betched go along with such a plan For you through two tests and for Wolfcroop Bosi, Meditrans Niumburgerstrasse 42 8000



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SHIPS WITH

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nearby ship sank and others slowed to a safe crawl the knots to eight passing everything in the water and

Walkey now plans to adapt maryelous wer to no salmo. Access, Contact Waken

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optically scarring the mage

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Massushea had to sugnifice speed The Jumbo's fastest about one and one half house But when you compare that weeks-the Junto bearer -Bill Lawren Access Call Marvin



IBM has long been held up. Mobbley Matrix, a system of by Lou Mobiley, creator and former director of IBW's second by PM. the Mateur is now being made available.

to fund growth present

contail and analyze the comments of a means of a lectrique BM has employed lates the impact of financial mented information for com-

piery outsidens like horizon information. The Matrix, on officers to boin them name which they typically find -- Dick Pichengs

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## GRAND ILLUSIONS

overhall networks for a familiary across the Grand Careon—you couldn't imagine frees things being done twenty years ago because no one would want to spend a half million delass on a production. "With the thought of high sums of money to spend in the future, Gavanne has deerly had furnishing of "some crazy stress for

had but shallowed a some cracy steel for mage in the ben'ny first certainy included in this heavily first certainy included in this heavily first certain size mage show are the following minimate mage show are the following minimates stopping the same from conting welling screen Lake Michigan Soaking and the procedures a range the English Chair had been committeed as the English Chair had been committeed as the procedures are stopping to the procedures are stopping to the procedures are some continuous are stopping to the procedures are some continuous are stopping to the procedure and the procedures are stopping to the procedures are stopping to the procedure and the procedures are stopping to the procedure and the procedures are stopping to the procedures are stopping to the procedures are stopping to the procedure and the procedures are stopping to the

nel, cuting and then restoring a cable on the Brooklys Bridge, changing the color of the sky, assing the Transc. surring the Westington Monament upside down sawing Manhatian inhalt, parting the Red Sea or melving the moon disappear.

of medium; the moon disappion John Gaugham—polishly the world's leading designer of custom illusions for megicens like Doug Herring. Cooper feet Stackstone and Singhied and Rigin into just by the dichotomy between the post and Journal in the magic he is mixed to create Officers the same just decisionally within the justice officer.

beam—an élucion he buil foi Coppertieux come egit pess quo—as appachs orampie Thi airother d'Ifect la woman in strapped to a labble and Singhiber airo Roy appacerh her alach rodding a fireo footsquaire glass chiefol. Tech sheld in coppere with the speke dispach proposers and sheld the sheld to the sheld airothe sheld to the sheld all the woman is subjected to a double bed of reals as both apped placeber merit, appair

cuber introd confirmation in To Mallet Accounting to Jamen Planacia has have been present the property of the impairs of claims of the pasternormal. In the past 2000 the very set of image, which have considerable to the past of the past of necessity, to lake poole with the sines than the property for the past of the past tree was, when the necessity of the past tree was, when the necessary part with which prophering in the microbinday may some Expensing in the microbinday may some Expensing in the microbinday may some Expension since the surmous would problet the missional ower up of may accordage to the thereing suitable gate a may be more the past of the past past to the past past to the past past

possible the says that someone will grasp some pace of technology and apply it in such a way that it is not widere it is being used batted this scores An example of just such a direct is the

Popos Inamodem semisorior the Taking Tassiette Propositivi Mel would be the inclaimation to the reverent through his hiering act and Propositiviti Tasch themself to the settoriced participants. It such themself is to take insent of bodying just their because present of bodying just their because security Xing in machine of undergo. The equivalent of a criminal step present to assize their studies for their separations.

sage free indiverses that he expendicularly transmiss wheel being employed to the present and the present and the present more of a things that each and or present to their present and the present and the techniques in the sky to image or the for the food present and the present ways. The invariable of the says, the invariable of the says, the invariable of the says. The invariable of the says, the invariable of the says. The invariable of the says, the second of the says, the second of the says. The invariable of the says, the second of the says, the second of the says, the says, the second of the says, the says, the second of the says, the

stanyou are not Conjusts use requirest classical to marks and other lary-tale therees be cause they appeal to our erectors. "Root and they appeal to determine a robot in

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object. Telet szyp. "Caralestantly i it is a gypci student for magni file hot her PES special and a forthcommighten video onthed Cyrel boxis as Dear Promoti (symistike this summer). They have specifically demanded an intreaction to devived the normally passive all home wever and the students of the students of the students of television screen in the video Penn and Telet will teach passive how to perform rocks for fine felector sump the VCR and the VY Such interaction may provide an externation are video if in Containing in the internation are video in internation are video in the internat

years to come

Singfined and fley best known for their specificular Las Negas ill poors with enobe animals, were among the List imagicians to employ a high auch boll, including the use of laser humbs and pyrefertnes. Computers and videos intelly leef are shortening the attention spens of line au-

"When I started in magic leave Skip thed "people gave me two hundred sea

to dominate leave Pov.



sons not to perform--people don't care about magic because of technology be cause people can fly to the moon. The remorkable success of the dup has proved technology increases they worn irregigars may become an endangered spe-

and that "when magicians perform with expertise and emotion the public will rest-If we carrylate people's farcases." Seq-

It may rupped readers that the most radical theories about the luture of megic person star. Daug Herrang. The magic of circinct types of magic. "Russonary medic

which is a revenuely mossible occurunderstood and is common knowledge in the scientific world and roal mage: a by a law of notice that science hasn't disstonery and real magic exist in the world sions ponariers parlorning real magic

the vast majority of magicians—who hered on that knowledge of deception are exeptical of paranormal officets..... Henough the ability of the mind to move markingto objects, will be possible in the near future.

cant of our bean. The says: "I we used more I believe that in the next five to ten years we could actually control matter and rio tre) doing things that Un Callier claims he gictor red using dusionary magic. Yours como lo see [magicians] dong real medic Even the physical look of Herrang's show would differ greatly from those of his port temporares. 'Currently our senses are hombacked with tech tech looks, lights, and sounds," Horning says. He magnes

a reguln to syrgler more natural fromes. For instance, in one sequence he magtranspenint pecals would start to open and bloom. Henning says. "The flower would begin to glow as if there were a light from mede Everquely a woman would emerce wearing gossamer butterily wings. She would feet out of the flower and around the stage suddenly veresting in midal

grams, computer chips fiberoptics, and lears will seem like child a play to made crans of the future DO 112 China

SPACE

composite manerials would no Because asteroids may be valuable sources of metals like nickel and iron and such elements as carbon and notocen the ireatuse has funded stuckes on the lease-

hier of finding and reference those werby Earth's gravity Scientists are also plannel tenics usually discarded after each The Space Studies Institute is studient large-scale projects solar-power sate less-meramoth wings of silicon that would collect surright and beam it to receptors manufacturing by remote corrol. We won't need a parssarent crew of people on the moon to operate the factories. Bupervisors ray robots and direct their activities by

sketchen cross of humans might schulbe up The metitute hosts a soape-menufactur (The next one will be held in Province from May 6 through May 9 Formore information write to the Space Studies Institute at 285 Rosedate Road Box 82 Princeton, NJ

to suppost and discuss vancus agendas At least one discussion will center on a would be sunt over the top and bottom of constants hydrogen and owners are the

The monate and the biannual confercroces and the result of Gerard K. O Neel's reaction to the Irustrations of doing reswarch work for NASA. "Every year some new party line would come down from by too much of my time thinking up new ways to justify the same research pronount over and over again," he socals So in 1977 he decided to take his case to the occur. to not their support drately. Today the instayle has some 4,000 clues paying members, many of them skilled researchers in

cools which have sometimes been onlycovet as unmalistic, too expensive or even dangerous Jesco von Pullkarner NASAs Differ post of orbitro space colores would cost at least \$220 billion, making it f Herning is donest affects with halothing, he says, would benkrupt the space ospowm And in a Worldwatch institute re-

port researcher Daniel Daudney found the romantic ideal of large space oxigration an ofbihore of platform, or in an Antarcisc menon careto-damperous, promped isobeed and unevently he said He cris-

gued the idea of building a huge solarnower stylion in Earth orbit as been a erworonmentally risky, since it would be beamform of microwaves. Doughey went so far as an charactorize the rotal cower satebox

as a shortin the dark experiment with the earth's atmosphere You may wonder if SSI members are

perhaps theowing their hard-earned money at some pre-in-the-sky fantasy. But consuper IT Ned is other report venture. Geostar a serolita hased navegation and commanications system. O'Neil parented the herac appearation in 1982 and formed a purposition to market it in 1963 saling the lounding stock to Inends and associates for a permy a share. On March 28, 1986. socket. By the end of the year, trhates of the stock were SZP each, all down to earth

O'Nati has dreamed of building orbiting space colories and has written and lecencucing a reekst to know that before you net colorates, you have to provide people passe will burnch the human migration out into the solar system. When that first

broakout occurs." he says. "the others will follow inquitably. Then there is not no stop. of setting new fronters 'CO Editors note: Answer weeking for more vision

pro-space stovement Roughing for the High port CT 96881 Phot 57756

## **GAMES**

What we you doing on March

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Hence told us but in dots Maybe it s because for all surrounding the seat moment of the oquinos, the si is directly over the equator and the earth is bottened within the universe. It's a phenomenon that

has both delighted and myatiled people small articulty. Scessorie in Clinia discouared it thousands of years ago. According to an ancient Chinese book. Kriss What Heaven Kosex, on the day palled Li Clarin ( spring palled Li Clarin ( spring palled Li Clarin ( spring palled Li Clarin ).

palled Li Chun ( spring bagins') writer ends. And for a law menues just before and just after the research change eggs will stand on end. In 1945 a report appeared.

In 1945 a report appealed in 1945 a report appealed in Life stout how everyone. Chunghang Chane was releasing the streams of vanity trying to belance eggs on the first day of spining. Walter Paude of the United Phiese docked to try it for himself. The skephical journalist was amazed to decover that he was also to state several lagor such the wallow of pigs such the wallow a gibty.

The news got back t



on any estang harsery had been dublous ing opp batenong is espertrak. "Seculor fro rich halds that oggs will dilor only two hours each however, there seemed a little to allow it in contraversity haghttee contraversity haght-

the continuently haightist as some Americans imed that it was an old get true. Shake an egg at the yolk breaks and all stand on end. Or you and son the way Christoor Columbus supposedly in by chadling the bottom mo what incirity. But

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the local Christian is slighteaserful of Crystem's slightbrundled an attack on the
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At the local weekly come.

continuates held in Chur king, Chinese authorities discussed postwer plan currency stabilization, is then moved out to the sand up eggs. Since people, including William head of the Chi War Production Boal minister of economises successful. The had been to applic physics sures to their chinale sures to their physics.

were supposed. The plan had been to spill out the christic surp? to environme egg. The Life corresponding to the christic supported homever, that "many vote some sho thought this undignified." I demonstration was carbonic that young also the christian of the ch

emonstraing an incomision may in the lone. Even so the agend continues to have a mong appeal.

Most bleay time of the years as pothing to do with it.

his rooming to do sear it indeed we expect that you can ballance eggs on any end you by harder when you do it on the test manner of



your muscles and dole to make the firm adjustment recessary to find the bottom or point. Yet we have tried and europs on glass in Documbal

We called James Hard the magicaln and ooth seapto for his opinion. "It doesn't seam to occur to people to by it on other days Randi says." The fact is you can balance an egg to day or a week from east. Tuesday of a week from east. Tuesday of a week from east.

are the qualities free gg the risk surface and per briefy of the base



Games sapiet and opens journess Methic Garchie dods that the surface of the egg is soil as criedus. If you sandpape the bottom of a egg to enfirmate six the end bumps for instance you can thy known and never between the egg on as flor mass surface. So docouring on egg can carrierly effect as soiley to stand. On the other head of bowd On the other head David.

On the other tend. David Swentrath a centrisburg other as Modern Prospage who is a consultar in recent the and technical pholography is a believer. I'm under the improvement that dees work balter and before or afte the observer has any "Tur many years my with has balancies at observer more legal on our front points."

ratinly year by what has halfarbaid a dozen or more ogs on our front panch fine has also dozen from on finte and on a sheet of pass. I have no wild social or somous application for clayinght opoles sur pass poor got faces I don't now if I tred lodge; I good own if I tred lodge; I good



stand maybe one or two eggs. But on the first de strong I might be able to do two closes:

A food impact Dr. Warra groupsain of the Munch Tochricological Instate of Tochricological Instate of Tochricological Instate on 1995. Egg balancing was all matter of cold weether and liquid plants of the control of guidely. In asplanted the predicted that on the hottest current day, an ogg would stand if the child in a trifuguate. The particulas cooperney! The particulas cooperney! The particulas cooperney! The praticties cooperney! We can also should be a service of America - Wide Inma are sefegianties.

basin conducted. This induction is would have to us organic eggs at room temperature. Donne Herie says. "But that a rut the cities at all. I've had friends old me the says on use they eggs, even ones that have cores right out of the have cores right out of the

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Code. The very word is intriguing, it conjures up mysletter is represented by one translate to 26 different letters

In the code below, the mossage was spelled out on a tele 2-480

8-MNO 7-PRS 4=GHI 5-IKL 9-WX3

For our purposes we'll use the numeral "1" to undicate nunctaction marks and '0' for spaces between words. Now,

could stand for a T, a U, or a V The 4 could be a G, an H, or an I

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18466270724630 4373170860

727302427228371

Look for the solution to this rule.



