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THE OMNI BOOK OF DREAMS

Edited by Tom Dworelpky: The Sleep File by Jan Miller



FIRST

By Paul Pruchomme

◆ As science explores the complex relationship between notation and the burian process, we will come to a new appreciation of the vital connection between what we get and a presting processing 80% styles.

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CONTRIBUTORS









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ness and erotic servelvity.
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returally to me" says former Crim so edoc Jame Bouweld (The Yang): Zones" page 79; But after Boweld alleigt one right a character enters for othern and wanted to full fee "I a Deer! and the when "agys the oceal for or Your Drooms on single is Firsh," extract I know this is a discarn, is at of nate Just go! Then every dissolved and I was in a know y compositionness.

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GULLWING: LIGHT YEARS AHEAD OF ITS TIME



described with a sangle word Gallwing Because its districted gallying doors and sheer speed madthe 1954 Mercrakes-Benz 300 St. the most imporator spects cur in history Now precisely re-created in an results revolutionary dis-cast model from Franklin Ment Percesson Models Hand-assembled from 125 senarate parts Hand-polishes and sent to you ready to die

from the precision-engineered struts that bold the doors stoft to the carrybult cover under the bood Best cloth has been specially weren to match the ongosi. There are steering and road wheels that actuall work Hood and trunk that open Ossowned luggage on the deck and

a control ion as the rosely The most detailed Gullving

On Suit Zo

The 1954 Mercedes-Benz 300 SL Gullwing

monthly instalkmosts of \$24.5

Trackin Gorger, Pramedesens 20040 I was to enter the secretary cented imported times a realize of the Mercedes-Bern 300 SL Gellwing. It will be sent to our fully assembled and county for Gamber I mored some on money now. Printe to objection, I will be Please real by Toromber 31, 7599

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LETTERS

Workely Concerns
Thank you for allowing UNICEP's
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child service in the Third World [First
Word August 1999]. In the absence of
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I was elated to see your magazine publish an analos on hunger. It is truly time for humanity to become aware of this huge and deveating problem. Ending hunger is a real possibility, and salure you for publishing Brusels. Print Word, Neep up the good work of

Carol Wilmen

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Your inference with Hann Mosaveo.

Your inference with Hann Mosaveo.

Your inference may be carriered down to death scentral may be carriered down.

The Industry cannishes with the The Industry cannishes and the Common Co

Martin West East Lensing Mi Lust treshed reading the interview with

Hars Moneyer, and it left me greatly disturbed I couldn't help but worker what happens to the human couston in at of the —ample single leg love and feelings. While I wouldn't mind a few improvements or my biological body. I have no distant whitesomer to become a

machine Machines are to help man, not the other way around. This man source me to death? Roberta Cicardo

Canandagua, NY A Less Than Arthal Analogy

ancto producing reserves to the more developmental diseasing or prantial searming ("Presid-not?" August 1980). Chapter starts, browens, is incomprise (Declarger compasse the brain for attach that is opplied by removing bits of matter. If framing neural structure in this bits or an accusably to compend to an incorporal datable it would be impossable to be when the attach can be expecised to be when the attach can be specially incompand in voginal country to specially normal of invogrand country to specially normal or invogrand.

> to intrograction in the meaphorise see presenting breakerns relainful graves clumby cheef into an instrunt of conguttenate art Brent Logan, Ph.O. Clioctor, Pronatal Learning Institute

Director, Prenatal Learning Institute Snohometh, WA Would You Like to See My Elchings?

Indiguod year Exh A Beach teebare un the August 2009 auter (Carrey) Integrang as the acceptance were, I was more choreaste in the attement 100 fallent lave past up to 5000 to hang these works on their walls 10 once me I me words, but wouldn't benging them bette last thing you'd wen't ack gind the last thing you'd be able to do?"

Autora, CO
Mosed Signate
In an otherwise correct and interesting

Network (GWEN) in the August serve ["Doornsday Radio" Continuum] you have one glaring error. The Insquances the new system uses an obstworn.

Dale Unger

MAKING A PROPHET

FORUM

realm often deemed hisolays were Orny Wile I your intention to study

Library Viru It was one of the suspers

Ultran I don't firrik you can entertain.

Overy Did the people who participated

Own Do you believe precognitive

Ullman Not necessarily J B Presiden Liliman, Most of the reparted ones

Otess, is any group more support bir? Ulmen I don't kraw if we gan say Grove Recular cheems are stored in Uliman Any dream with interest feeling

Orms' Can you teach yourself to have Ulman I don't know of any way but you

you recognize recetitive symbols DC

THE GREATEST SHOW OFF FARTH .

STARS

By Frederik Poh

he ricest thing about Pasagena. and the Rose Bowl It's a hills called the Jet Propulsion Labora tory (JPL), where a tow thousand sounce reach out and lough someone-or somebillion miles away. When not you come in from American spapeoralt flying by or sometimes landing on, another are decoded and turned into something the furner eye pan agmin, and we were there in August to watch the Nepturie pictures come in if wasn't my first trip to JPL. I've marks

American glimpses of the nearby cloud cover of Vanus (that one was a bit of a letrirwn because the Russians had to the planet just a few days before) Then I went to see what the Véxto lander saw when it opened its obstoochs. eyes and for the first time, expect around at the surface of Mars, and later stift watched Voyager friend the rings and the satelise existence of Jupiter and clouds I dich I make it to every one of these world for workest premients wasn't that smert. Foolishly, I slepped the I fearure thebre on 10895 harmone I hard some other business to attend to and The particular planetary photo opportu-I should have known better There is nothing dull about knowledge, and

some of the most interesting bits of now receives come from places where the will cuty like mel think there's notion there on the scene as a picture from an altern world builds up on the screen pad by post and ine by line and to know

just to be present at JPI, is a delight Exprement is in the air. I'm not reterring breathe to stay sive (though high above the famos of the LA treeways even ambience that surrounds the Jet Procui that data are flooding in and hundreds of the best scientific minds in the world as excited as any mundane vestor as they try to puzzle out what they all mean that will help balance our busted lederal budget and neverty or get crack out of our junior highs? Is there any proctical Wall there is of course The research

has produced, more or loss by acoders. That isn't the reason we go into space will save us from our own follow. If we let research. It is the proceless office-led

knowledge Knowledge sirt worth long run it is knowledge---all lands of scientific knowledge—that gaves up the There was sadness amid all the lov in Pagaciers because Necture was the and of this line. In years to come some of those planets will be revisited. Orbiting out Metimes are we likely to have the

> a planet that has been shrouded in mystery since the dawn of history



Bre-live, bride. With the show over, planetary voyeurs can hape for a pagadasck to Plust 64 DMN

DESERT SON

EXPLORATIONS

By Keyin McKinney

hen Moses led his people out of Egypt, not every Hebrew followed hm Marry alraid to go into the desert, beyond of the Sahera, at the base of Moroccos Atlas Mourtains, Lunderstood their fear of the ideless, wateriess plain, a sand I, however was a follower not of a latter day Mones but of 170 numbers \$1,400 to test themselves in these the last week of March, they were deter mined to trek 125 miles in six stages.

ndwckes commitments in search of both surpessing physical and psychological lemits, I and breeking away from Tony habits to attain nomaclic autonomy Royal Air Maroc Flots number 204 passengers proceeded across the landing field to the terminal. There aspect an image of my own embattled personal ife and the endless string of crises !

while backpacking food clothing and

the small Afias wilege of Fourn-Zouct. a week, dinner was a free-for-all, the I didn't starve, but my hunger was far from suggested. And to make matters the levils for me. The organizers seemed. unconcerned, telling me I'd find space happy about everyone's attitude. On my return to the Street, I was sure. I'd have

CMN

In the morning, before the official start, the contestants andured speeches by organization leaders and Morgocan offensile fleshard than orders for obvious raphers and television crewmen, and responded to French, Moroccan Japanese, and American journalists. who fired questions as if they were war being sent into battle, the arways runners charged forward in groups of 40, each Moroocans A retinue of 130 organizers. doctors, tent resers, and stalf gooks. set out in Lord Bowers. Whyting above them, a helicopter kept track of the

froots: while is hot-air belicket oversely. their progress. And two carrels and their riders brought up the reer prepared became defined exercise required to collect the faten boulders and thombushes. That note

with the medical staff secensicled the camp with a saxophone and trumpet

turned to fossil stown helds and direct that commenced the following morning the distance, American runner Lahory Brummel sighted the compone "floating above a stammerro lake of blue water mrage, she reached her desimation Late that cight. I wandered away from ightly dusting everything with sand, and the gent ing noses of an recommen full moon the desert resembled a photographic regulave the sky a dark graysh blue, the ridge of mountains in the distance a dark silver-gray, and a angle pain tree a black morelth at the end of light gray sand. Feeling like the sole living being on an alien planet, I

wallowed in the solicute and addressed the stan-studded universe spread out above me. As a child I learned that "God coping with daily routines and life s upsets. I no longer left the sense of Anonymous powers seem to govern our lives. Most of us view ourselves

are always saying they're early or they're emphase on the appointment, on time." something else" in the desert where dimensions. Your point of reference

Deckmyn uses the desert as a "theca-Tunisia, where they ve been forced to confront thomselves in the desert One patient, a recovering drug addict

accomparied him during the marathon and reluctority belowd at the carmoste.

wheecing and Imping numers the patient whichever into hessel. Descripting duty! I like her patient because of the reas a diligent weeks everyone in the reasy wants to be the everyone in the reasy wants to be the everyone in the reasy wants to be the because for "Another wants he demand for "Another wants he patient for "Another wants he wants for informed the patient like emotional support invaling he first the reasy way in this select record. When the added to accompany the reflexy version is 24 pages, where the

des States He offered the passer il He embrane support leaving her to first her own way in the view member when she asked to accompany their she when the asked to accompany where the metal the most of support, where the metal the most end, Deckmyn expressed little consent. She had no limitations when she used charge and debt's taken to stall with those is metal-one she ready had the says in womittee most before the says in womittee most product the says in womittee the says in womittee.

Opposition delicitaria subsidiaria Ministria M

push when the flower got trapped in

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sand Milling thactors the obstacle course scott became less of an incorr weareous and more like a garine Outr slags titties when we resched the 30 floot sand dishers and our driver had to debur I opted to waik through their All I Ingrend mit the gart soundow. the guestion wind audionly deed ceasing so smithsteps in the ensuing status I could have my hear the beding and the blood authing heough my viers. I he blood authing heough my viers.

could hear my heart besting and ne blood rushing hisosphiny views i old never been to intrinduced in myself has the astilled with the low moving our five control displace and meriting our five control displace in the fair sale or as class. The soldering of the myself country for the sold of sought God was within zero. Has become early the universe. After the consense of the sand.

After the exponence of the sand duries the fourth stage seemed ever cholder. The 45-mile course receipt the exhaust durines with a true out. Finel pay sportrap blokers and more.

 As I lingered in the grant sandbox, the gusting wind died, ceasing its sandblasting. And in the

ensuing silence, it seemed as though God was within ms, and I

within ms, and I was one with the universe ?

San a file backer basked may by their pooles. Per borgs and feest mene of nocks and graved yet more utures and adaptivations as a file to the second provided and provided and

so many times, and I index I would investigately reach it. Near cluck the moon rose above the eastern horzon as huge and bright as the sun setting in the west. Opposet each other the two celebral because have been deposit the sente distance from the edge of the certh, mesoning. Throughout heinight, fice people sign The Land Rivers drive beds and forth between the beds and forth between creative steppers. However, and the control steppers is the same of the control through the control to control through the control to take the control to the control through the control River and the control through the control

and total selection of adapt of again will alkand of the property of the control of the control of the control of the control of commend on lock with University of Javan enthroplogid. Morris Satta who accommended the numbers as an observable of the property of the posted of a braider. Pick up mock and place for lock per in the other he body on the control of the property has add control or sold with the other he said of control or sold on the said of control or sold on the said of control or sold or the control of the control or the control of the control or the control of the control

exempled in a servicible. As among surrided pass, we principled on their annihilation of the property of the provided appearing a speck-so makes a practice.

as approximation as serial read of the Again it was registed between all the Again it was registed between the Again it was registed as a serial between Size decir below when Again and the Back from Zagora. Now she even wished their drawn in the moration. And on the asswerth city be numerous replaced to the Again and the asswerth city be not a register of the Again and Cagora. Fifty distinctly and the Again and Cagora Fifty of the Again and Cagora Fift

holding hands, and denoing. With traclosural Microcolan feather, the vilegers generated the mad dops as if they were modern-day losselites completing their long occlus. The massition, which had begun on Palm Sanday, the anniversary of Christ's flumphart allay into Janaelain, ended

Farm surrow, the conversion of CT as a thumphart with January Bong in the claim! thating the CT insteam Holy Week solvined remarkably appropriate I hought of Christ wardening in the diseast and weeking with Satan I soo had come facel solvined with my cain devil and lose above it.

The mainthoris organizous, I suspect misristionally put me trecupi the serve psychological orderle as the runners are walkers. Frethesps their wins just before I claparitad Sapora, Deckingmaished. Do you now understand from myh of the disaste?" At he inne I cladet even undorstand the question. Microthe bear on Jerost pasternoon all professional servers and the servers of the ser

Months later no longer overcome by the name hade of endernal forces. I can control the floodwaters, my soul having problems the sount of the Sahara DCI

BUILDING A BETTER MOUSE

ARTIFICIAL INTELLIGENCE By Fred Hangood

ave Otten has been building

1985 Even so he's unprepared good for? Why are you really done that? "Mention snything about retional price, then they roally think yours crazy

walls looped with red reflecting tape two notes high. From time to time corner and these would beam to thread sade. They looked like the of spang of a

with two parts' a slow, stately, and shytism and a dragater mode recing for half a condor length and then coasting supplied themselves on maze posts or machines they showed a lot of heart

their met. Maze solving is a step toward first price at the dozen or so contests. where "recromice company to solve a thors from London to Singapore have a committed following Regalls Bell the 1965 World Championships in Tsukuba, Japan When I came time to take my seat undormed believes carry me into a large theater A band played :

a huge TV screen, hundreds of square

were packed with spectators. The ses like Varna White Dignosses handed out the awards. Of the 200 entres the Japanese had 190. The other Although Otten missed his meet, at polices firms the water planning to make if to

the next World Championships, slazed to take place last month in Singapore Otten, a busy man in his mid-firstes. arub nose and a raspy voice has moved quickly through the ranks and is

designers a run for their money Port of his edge comes from his rob. A research scientist of MiTs Laboratory for Floring this subject promoted him to enter the micromouse arena Back in 1965

Amazing race. Robots and their own way.

feet in area, outside the building and my Other heard that the then champion which use coils to create attenuating the more advanced DC power systems that son, the mor continuously provided smoother power control. We should Over the winter of 1986 the mouse team at LEES given \$2,000 by the MIT clearly of Eps. sport 30 to 40 hours a

aspect of building a wrining micromouse says Otton Translation is the key thing computer logic, for example, was not tog difficult. The point of the race was to in their electronic memory, then simply retrace ther muse of they ran into a

Otter's greatest challenge designing countiest morehance, cracks, and steps-or tills and steps. A machine divisions, analyze them, and correct to

t will crash into the walls, losing time and reking sengua degreenation There was no easy way to accomplish this task. If you fried to use bigger. heaver computers to movese a mouses had to fit into a regulation raze maze.

SOUND-AND-LIGHT WARS

By Judith Hooper

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The bard evidently decided not to their beginners of source and light, the second not legislate the second not legislate the second not legislate the second not legislate the second and more people have been second and right machines, an extending the second and right machines, and shall defend second notice and the barrand of in second second concessors and in second second second concessors and their pugges and several second second

ficior al different rates. The is to prompt the users' brown so pull on a full color light show introde man dates epicienestes more patients and sprining constribitation is in Filtracie West for the Nacess. "Yet there is throuble in sound andlight light for step in browners."

hese machines may require Food and Drug Administration (FDA) approveland they may not get it. A lot is string on whether or not they are medral devices. The machines will the game from the SSRI metable. Walkinstration

the 360 000 industrial strength yrithin Energizer, which somes a contain of users and requires an opor at its power plainthe control penel Il work on the same principle units ent. It someone fashes a light in your operate infoquency of say opting cycles per sound or herit of high your train will automotically resemble at the same heap-ency. A fash rate of 8 to 25 Hz will produce alpha brom wires, aspossed with a stell or head optionated with a stell or beld, conscioustics of threesy of the control of the stellar or post optionates of threesy of and above 1 Hz, our want to go despenrate above 1 Hz, our want to go despenrate above 1 Hz, our want to go despenrate above 1 Hz, our want to go despentiva a december threat sates mistral and the stellar of the purpose of the stellar of the purpose of the stellar of the purpose of purpose pur

dip 8 Hz Below 4 Rz you hit dela waves—allery.

We he in a social that keeps us in a beta state a highli-or-fight condition and we were'll i meant to be in the state at diely long in prince Sever The father of the Synchro Energieri Ohio inventire Denis Coapse, addit. Prograneed to get high How etbe daw get selected states that improve the bean defect states that improve the bean selected states are selected.

restoad of debetaling it?

The field has some of the frontior leeling of the personal-computer business in the mid-Sevense barie leven.

n goggtes: Filmon West of the

los technologues hoe Agene and Estances congress folde with to querion in their becaments and come in which are the present flow present in the goods ferrings for significant part of the descriptions of the present part of the present in data managed in the present part of the present part of the present stamp can stag in our most part of the present on the fact between the present in the fact between these department machines are the saved of the future high lead mediation due accounting to continuing a question for a valued proceduring as question for a value of proceduring as question for proceduring as quest

The three degreesplaces are some and are light meaning. The Syn-thrib begans the DAVID. And the Syn-thrib begans the DAVID and the share Guest his in one operation controlled until Hyali can one of the areal parties model.—The Pelarent Timer Quest Mindelige MPC or CAVID it.—Yellow the Mindelige MPC or CAVID it.—Yellow the Mindelige MPC or CAVID it.—Yell can their your trans to bit to 15 submilled programs (with lequencies designed for reliability to designed for reliability the designed for reliability.)

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RAILWAY TO HEAVEN

SPACE

By Steve Nadis

nce upon a finse men flew to stell fred from a 900-lock-long owner. That was a flight of lancynot fact-recounted in the 1866 Jules the late President John F Kennedy Merks now proposes (and has

Verne's carmonball express dubbed the space train. Trail could revolution the to accelerate through a 1,000 kilometer speed smoothly, then hit is gentle threedegree has snot fiv into space. Present long, Sexbile cylinder with corre-shaped ends-to minimze almospheric drag disign challenges, fowever Research

ers will have to make giornfloars.

advances in a variety of areas—from heat sheiding to tunneling technology-And the project may cost as much as \$5 trilion. The concept might be a Marks collaborator and one of the

arquebly the best abace scientist among project in perspective, however, "These are many puessions about electromap neto launchers (such as the train) thriving of putting humans into one.

shape in response to the Challenger disaster. The shuttle's tracks explosion alternative to present tocket propulsion systems. He teamed up with Dramandis

Marks proposes such a long turnel to meet the first requirement for a system that transports living beings to strace The note word fall from The miles of track

space verifures Receipt a forces, the space train 25,000-mile-per-hour speed needed the tunnel would be a near vacuum and so that it rides above not on, its rails. The

an enormous mass driver Switching

speeding fram would leave the near risky to passwoods as extreme acceler train's ontire one way trip to space would take aust 40 seconds. Such a fast ride

The tren gould bring the price of a Marks believes that the octantial would far outweigh the considerable

ALC: UNKNOWN advanced heaf shelding. investment it would require. The speci-

Little train that could. The von horse opened up the West, it may do the same for the stars OMN



THINGS THAT GO BUMP IN THE MIND

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on recommendation of the season of because of states which is our substitution of states of season, which is season of season, which is season of season of

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If to lose its startify an Schmidt stay.

Joseph Starting stay in Californius, its level model model of posturate white locking to posturate white locking on an oppower to 50 years as only or the californius and posturate in a conventional stay only or the californius is some and to posture a conventional stay on the californius in your engage weeking some your engage weeking some your engage weeking some your engage weeking some of the californius your engage weeking some of the californius in the californius in

UPERWOMAN ORMONE

UPERWOMAN OPMONE
Women leaders such as pectans Bereich Brydo and real Brians Margaret lebber may have a bookgei ackwersige over other makes who are trying to

seeks numbered, contags and content, was for produced. But when his necessary to use to happen for the man control to the substantial content and of the situation, non-upress and produced produced and placeaux is bound to produce and placeaux in bound to produce and placeaux in bound to produce and produced and produced and produced produced to produce the produced and produced produced and p

become nontprepting inflating strength for unit of ?

Cantillates incount has noticed several mentions of Parameet. I hadde to ack have not examined Phine have not examined the have not example for the week? The stop to the person's land to setterny keep to both going on in har?

—Sherry Bake.

3



BABOON SWO

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nd what is the first consen? Welle franchy pitence may out weigh ale recetarize in benet. What these babour, you felling man is that yourn franching sucda in seducing familias may be delined from the tession — the Lawsen AR KEYS

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lum the layer interaction on electronic models of mice on matched high frequency or radio signation from the layer model signation from the layer matching that the second looped if the tobics up signate or control that matched takes or control that the control takes or control takes or

purpose or at the expects. The observer will not prevent the or terrors. The observer will not prevent the or terrors auto the or professional auto thermas who is as skilled on ways.

"It would be alternat import

Lists absoluted mayer.

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Twoold give up pert of my Mistime for the sales of Ancienty what is the average becometer reading in Paradise 1



CONTINUUM

THE DINOSAUR THAT





Would you molece a 50 pertinoveeinsp with one this

Wood you rendoce a 50 point mouetes with one first coate \$2500 Not many home owners isolate but when it comes to bagging notices on an acustral acade food producers need to better recuesting to coth releasion. Philip Annex who powers who powers have been also seen to be a seen of the power of the mouetes with a yearshare Philips Annex has been produced, supp. Seel food wenefit uses pay up to \$500,000 a war for middle.

ming Anatom with our manifold his manufacture manufacture manufacture production. We discover the state of the control of the

Some 4 billion
We forms from
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This scenario in

sidered by a board of plan say constrain from the Us ventry of Ancoro beaut, on the finding of meteorite in Antarobicin suspected in of Mattern onge Boardats July Moloch

between Earth and the red gomet Metash points out the libers of years ago meteor are bomberded the earth it during this area, the scenals it hypothesise, a meganization one some ten meta sonau present with the safe, pook

present into the earth, pocce of our planets or card could have been acked up and see tiging into space. And is year likely is few mode would have leaded on Mate. What esakes the Secretiing appointing to Melants. parent the seeds of the inhe form of spores or besto the mesonshir quiter shall could have shedded the againship from epace tad ton, from when the earth ooks smarked into the Mi

The organisms
At the term, exists Measin
when years from Inwed
across the Mercen earlier
the experted the terms may
have our exist. "If we over
Sold ide on Mars." days Metech, "we can occupate
an appetite material with Me.

Sizeth Eirie smiler, fren we we a case for believing eres been significant bio gizel communication disseen the two planets*

—Bill Lawron

offered worse could happen sing than to be completely decisiond "—Gav", Aung



st year old seeding of the solar system

son to issue a wern
They think they be
a commit ribe likely
from they de
—Gece
A historian is a pro-

CONTINUUM

SCIENTISTS When first da

nd even UCLA cancer speglet Robert Galo, who is abor known for his red life \$1 in aiding the violane. The most

exceptions recovered at usuring. Miscons where an item tess shot. At first, says obtates the data bearmed obtates the data bearmed decreas. But as the firming tryposes subset of shoulders the professional above. became an abornous concretifient years or distributions and abornous to says where the first of social sections and other acres to the control of the sacres to says where the first of social sections and other acres to the control of sections and other sections and sections and sections and sections are sections as sections and sections are sections as sections sections sections sections se continues that such as a second recommendation of the Breakers of the second sent of the curse, and the second sent of the sent of the

the legens of shedge, yourse

of these modern ver PNo says Wahl, who ned the patents 'merely labilish myself is the werer of the Sandivanue of "—Genoral Nobital







UROLOGIST

We have 30 desembles as the second of the se

ing aggression.

"They are as sick field surfer with the much his five field states with the much his five field states with northing (The Meschani of Venus). They from a district yeast of views says IV: Stephen Glots assistantly professor of chinical chieflets. Mays kilosis Isalay are heart disease and states. A mays contributing cause? Obesity with throught on by diseason with the professor of the states.

 Unquisit master make in depealers? (The Connerty of Emany). About 30 percent of our meals are consumed away from home. Glore estimates the model common models being last food. What you get from three unquisit beleased make are been being in his and solders.
 Yake mey your jayed and left me feet your paid (The Common) of Emoral A good clotter telease the publisher.



has a cost to be as as a 2 1 v. Stratum were measured than a cost to be sent the cost to several cost to sever

exons any Dr. Thornes, health provides of medine and pharmacology measure health risk, to neck the hearts thyten and gauge its strongth in soften doctors in the our high text measure have and to reappreciate the choice health offered by the action risk of southing street health of touching street health only net.

give of medical satiste. He cause possibly water have made a good doctor. He was well versed in the medical haveledge of the time and he had a lat of irregist end human between Knowledge and regist are two things lited even modern fooders need to passesse. — Henry Would Tour one needed her passesse.

e by the past!
—Edmond Burke

BUNGLASSES

sungiasses to a darker pair i

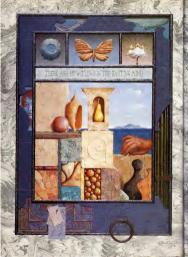
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in the frames and can be oducted menually. The general farmous are made from the process of citizer glasse or parties of specified glasse or parties of specified glasse or parties or specified by the shan once throughout of an eith Tele mediantasis are control with a making that benducts also but you shall be control to the control of the control of

When the voltage is of says company president. Rebert Slave the dark bit light valve blocks out sun light. Switches I led that agit to watches I led that agit to pertode making the particles making the laght whe temperer I'l lovel of sompermy varieties of some periods. The watch the amount of voltage applied. It may be two yet applied. It may be two yet applied. It may be two yet applied.

with the amount of voltage applied it may be two year before the clovice is mustable. The cost around \$50 a pair Saive saips —George Nob

"/ keep watding between 2" less" —Geodman A



ARTICLE

Using a potent method of guided imagery, you will conjure therapists, healers, and endless Utopias in

your waking dreams LIFE IS BUT A DREAM

The dream Yogis of enmental fest. Using a poagery, they retreated more and more desply and they did so without the Tibeten Book of the Deed, edited by Oxford scholar W Y Evans-Westz, the dream Yogai had semost total control over broad aspects of those 'waking dreams' Ing these dreamker in ages, the Yogis created endess Edens, explored

carne to terms with such

sauce on the nature of



tely rehearse they moneuvers Concer patients their instructe systems to haft the burgeoning cells that threaten their loss.

expenience the expanave feeting of aggeration between body end mind in the assentes pro sexted below, you will erion to intensify your sportaneous mental imagery until it evolves into a conscious dream Bo

BY KEITH HARARY freegy the order expe-AND PAMELA WEINTRAUB neace, high handle should provide you will

> even in a lund depart—a dream in which you become aware that you are determing while you are fast susteen. Once you have learned to induce both landity you can learn to change dream weather, after dream scenery, and gain greater meght into the range of symbols and Sealings inhabiting your unconscious mend It would be most unusual for anyona to report proteoms as a result of the exercises below-

start Athletes often enter this alread state of

makes and the measures of Mo. In the latter part a creater decree of control then you would have

of the teamort century, the dream Yook exact methodology remiens obsizare. Now, however we resert "fush landty," our version of the Tibetan Yogis conscious dreams. In line with our own research, we base our start relaxation, in which the body becomes in-

PAINTINGS BY CLAYTON ANDERSON

The Gumby character, master of a surrealistic, flexible reality, responds to its dreamlike experience with good humor imagination, and ease 9



especially since they do not attempt to greatest in such a case, you might wish to carry out the high lugisty exercises

dream healer exercise in no way re places opportional medical freetment very serious thress, we suggest that you help of a guided-magery professional reterred to you by your personal physi-

in the following pages is designed to be 44 DMM

We do not recommend correlation the or laying to source on entire works though most of the exercises we present are comprehenly sample their combined

We recommend that you allow your abélés la rivolvo chadually covino yoursince high fluoid chearns, much like ordinary chearrs, reflect your purrent mood.

no dreams. Actioning this altered state mend that trace you have learned the basic technique on days one two, and Please parameter the best way to master high lucid dreaming is one step. trains throughout at least the next two works. We have every expectation that of high lucidity directly from waking conover your Me and your dinerra-

A TENDAY JOJUNEY TO THE LAND

During the count three closes you will do until you have rearned to generate innone as not and evocative as more in your rightly dreams DAY ONE ALTERED STATES

naue of elect relaxation, in which the body enters a state of deep relocation while the mind semains acutely elect. While in the aftered state of alort relaxation, you will remen mentally plent while slowly becoming so released that, in a physical sense, you virtually fall asleep. Through

Before you proposed with this reserving day one in advance. If possible ask a frend to guide you though the relixeston reading so that you will have 6 for the futurn) Witherher you or your friend recourse where indicated for a second or two fortable place to be down. Then play the tape you have made or have your friend alcud step-by-step, exactly as they to

written below stretch your muscles and relick Now imagine that warm currents of montal ononce of word feet meant upon arbital

warming and relising as you magine the (Pause), into your thighes (Pause) through (Pause) Proceed very slowly, grung yourself time for each group of muscles and relaxed and sinking down into the cheir beneath you. (Faune) When you feel

(Pause), up along your some (Pause), the muscles in your stomach and lower pack releasing any Enhances or tension (Pause) Allow a feeting of general well

When the lower half of your body feels selexed (Pause), imagine the currents Sowing upward dyough your nts and completely warm and free of any sness ffrough your arms and lowerd your fo-

your arms and neck (Pause) toward the Now feel the muscles in your neck and faxed as the magnery current pass

no privour er mediate surroundings, and opening your eyes DAY TWO: THE ADVENTURES gertics (Pause), switing around through upward once more (Plause), back fivough

to achieving the state of high lundity. Toleast three hours before you normally go to sleep. This will major you loss fleely to sist fall off into sleep while following the form where you can be clown and relax whoul being disturbed. The room should television is connected to a videocas

be able to enter the state of alert relax-

aton more and more quickly without

needing anyone to read the instructions

to you. For day one, however, it is suffi-

cient smoly to psyclice becoming deeply

tal alertness taking as much time and

using as much assistance as you need

alert relaxation, maritian it for 20 to 30

self back to full waking consciousness

What is essential is that the television toon show or nature feature for at least an because they are broadcast without disturbang commercial internumbers. We aspecially recommend, however playing a not in the land of suspelsing imagery verture leaturing the beloved Clayma-

The Gumby character exists in a comcigody suppopologic and flowblo registy that often succeeds in capturing the quelty of greens Gunty, the master of this costly, also possesses the land of creative imagination if takes to respond elfectively and with good harmor to his ters, Jim Herser's Muppel Babies. Smorts' Adventures, and Fantasia We Once you have selected an appropri-

also recommend Pee-wee's Playhouse the program at a low but clearly audible volume it would also be helpful to seduce the brightness on your television set as much as possible without obsterating the option Fool a comfortable place where you can be down to watch the TV wthout stranno your neds. Get cozy and



observing and lot yourself absorb the After roughly 30 minutes have passed.

roll over on your back, close your eves ground. Allow your magnistion to fill in you're hearing.

As you do this take a deep breath. streets your muscles, and relax. While continuing to focus on the background sounds and any mages they help to genrents of mental energy very slowly moving up from the soles of your feet toward your arides. Then enter a state of start

As you become more and more deaply deficit rap the mortal images gonerated by the television show you've been sounds continuing to play in the back those images taking on a kind of spontaneous ide of their own, having less to processes Don't try to force this proceas, rather, allow it to ernerge on its own As much as possible, consciously obperies your informal images without loaning deliberately directing your attention back toward the sounds coming from the tale. beginning to lose consciousness. As you do the tel yoursel that you are conscenusiv alort and observing the impact

For now you should not be trying to fail deep state of aiort rosexation. If you should scroup awareness white practicing the exercise, however, don't worry about it

from wherever you left off After 30 to 45 minutes: complete the more of your attention on the television sounds playing in the background and

Just before you are ready to go to bed. spend some time questly watching the same type of TV program you used for the lost part of this exercise. Then once more enter the state of alert relaxation.

DAY THREE HIGH LUCIDITY On they from you sell taken that mate, oses of the past two days one step furold of high lucidity. Your goal for today, to NO CHAN

persons what's known as hypnegogic Whenever you feel yourself losing contures that emerge as you haver between weeksturees and sleep. You should be able to follow your hypriagogic images directly into a high lucid dream

Bean today's session an hour below enable you to carry out the exercise completely and then follow 6 directly into yourfull right's sleep. As before practice in a private room where you can relax

television or video program, at low volwatch loday are different from those you viewed the day before. We also recomtomatically at the end of the tape. If you

 A bright and sunny spring day might signify that you have a strong sense of inner hoonfulness

whereas a barrage of had could indicate you feel you're being attacked 9

one autobine is TV surface to WCB way might hook your set to a resperate times alternatively, you can ask someone to questly skip in and turn off the television at After you have made the amange-

ments, in back and absorb the mages roll over on your back and close your eyes. Then continue ledering to the program playing in the background while filling in the pictures with your own mental rrages. As you do this, gradually enter a state of elect relaxation.

focus on your mental images while also numerouses. Allow were eventure to his come as spontaneous as possible usard generate fresh images as earlier once facie. As much as possible, allow all of your maces to blend and interact with one another and to take on a life of their own As the exercise continues, these aporteneous, or hypriagogic, in nature

scious awageness. Socus your affection vision and say to yourself. I'm entering a droam Once again, the more sportsneous and Melike your mental images become the more likely you will be to CONSCIOUS SWIFTINGS Please be gwere this is not a simple.

ence, most people who successfully acheeve the state of high lucidity do so directiverso dream kiddity from a waking state for now it is sufficient to simply learn If, by some change you do achieve a state of both luracity tonacht, we arbone

without attempting to influence the imsoms in arry way. Ofou can handle only an much at once |

controlling the Hunder and Aghtning in

Today you will continue to explore your waking dreams. Begin by choosing a new video or television program to play for all least an hour. Once again, begin the exnormally go to-bad, and use a room where full right a sleep without being disturbed Welch the program that you have cho-

images and enjoying the show Then roll OVER, place your eyes, and enter a store backGround focus on remaining alert white the mages in your mind become more and more sportaneous eventually busine to follow these mages directly and con-

As soon as you notice that you're have ing a high load dreem study the mme that every detail in your dream is the product of your unconscious creativity. aspects of your dream setting but also

the architectural design of a particular dream building to the number of books As you observe your dream, pay specyal attention to the weather Changes are

weather a something you would ordinarly take for granted Consider however tainly expresses something symbolic sunny spring day might signify a strong irrier hopefulness, for instance, while a barrace of half could indicate you feel you're being attacked.

Now that you've noticed the weather, trate on malang it snow if yours lost in voleng a heavy rain Even if your dream takes place in a house, there's nothing derstorm within its walls. And even if your

As you deliberately after the weather in climate both refects and influences your energ weather as suggested above you wil take an important step toward cusforn-designing broader aspects of your a simple method of assessing, in symbolic forms the underlying atmosphere most important, you may use this technique as a means of deliberately influenergy your state of mind as you dream.

even simulate your potential for selfing out a fever in an active volcano Please remember to record all your

high lucid dreams, paying special attennon to the weather. Take special note of Also remember that aftering the dethils first, such afforts may even result in the termination of the dream. If this occurs,

weather in your magnetion. At the same

DAY FIVE SHIFTING SANDS

through a simple expression of con-

images doing your best to follow them consciously into a high lucid dream entile hypnagogic imagery on your own without the assistance of a television surroundings, taking pertoular note of the gin by lying on your back in bed and enplace completely different from the one tening a state of piert relaxation. This time represented in your current dream. If your ample, you might imagine a clearing in receives to a recht's always, you should be-

better mountainton, you must continu fac When you've thought of a suitably transforming the original setting of your

cus your attention on any hypnegocic

ance if this does not happen for you

shortly after closing your eyes, the process may be helped along by pulling up

random memory fragments from expenences you had earlier in the day. Thick

your day, and magne them interacting in

some surrealistic fashion in your mind. For

nstance, you might imagine that chicken

and eyes and starting a conversation with

cressingly relaxed; give yourself permis-

sion to have a book dream. Then remain sket while observing your hypragogic

images that emerge .

be able to will your original dream setting from behind it. Continue practicing this exercise until you've managed to expenonce at least one recognizable charge in your high looks dream environment by и ветрін гороникоп об ротвераль бее вий. If your dream images helt when you shift the scene, continue the exercise in your service reasons imagination. Please dreams, taking special note of shifts in weather and locale. Consider the possicance of your dream scenarios and record these as well

From Workfar Women to Barbeny Such

to the Blob, you gas be associa you want in your high looks dwarm. Tonight you will trade places with your presence in your high lucid dreams.

dream characters in hopes of garring direct insight into the regnificance of their of start relaxation and inchoring a high tuold dream. When you find you'self in a weking deem new perticular attendion to the characters you encourrer. If you happen to be alone at the start of your high lucid determ on for a well- norm or fly



MAN'S BEST FRIENDS



Five tales of strange and wendrous beasts as fold by science-fiction writers Thomas M. Disch, Gregory Benlord, Edward Bryant, Tem Dworetzky, and Karen Joy Fowler

EGG AND CHIPS

got things to do Myself I could go for some prooffest don't issue about you t a after early! Now planting to steen all

Na no motor How I'm perting turney Guy Pets don't of e-technory So I could do with a law

he most if a been and that's too long to go writing the Minyrum Daty Requirement Fiver for a lecting dust in a gosh-days dieset, do uni/2 Pata are human too you know

were The sheer's in the meadow the to me, cause I can I keep begans or the cyclis of my intelligence that are not artibrigit I mean heu I'm pirust Arn voc?

Hey Kid suit kidding I meen you still rever doubled it and your teddy loves you Carit help myself as the saving and enails and puppy dog tals. It were these demands. But. Honeybun, I am that, Little Blog? Olivay, so maybe them's a what I mean

You thore? Sweetheart? I got to believe is artificial and sometimes all facts can. Little Bro, you could be a sensor citizen. Locate pofor some president con timos.



no answers, and the question that reasbe Year Three Thousand I in not comthat s all I do I want for you, Boy Blue I wast for you to feed me

Child-threw a little golf ball at his title

caught 4, right in the old chronometer and

(Let live minutes elange, then I a-ling! If a after force of day? You planoven to steen all day? Dr whot? Gosti-cism/ Impanithet Johnson of ep-

had dead). Either you're not listering or Little Bro. listen. Even when I'm not

Ithink I am I think I am thinking About

fluid five minutes elapse then 7 J You planbetween us, signile person in common, innot to sleep all day? Or

of brotherly love Just a drop of arry won Litme to day according to the weather report and wo yo oct

Fugere No father or none that I know of

mother enough to generate some tellow

teeing? So would you feed me tellow?

Worse Livrow it not?

"On all note" With a tup of her par Both Rek's macrange and her mother's sery gryflyng afgoard the Loyether, ' came the

How I would that put bar? Took my arm "But I replaced it." She sounded at

Bath rouned her orange assistance and sured cut her mother. Risk closure what

Closer Smally Those of feast

They field using small letoacks. The tangled vellow-green jungle spread below them and then curved overhead. making a sharryegge distant celling. For girting lake They were at the very center of the Levertien. This bowl of leafy lowing in broad vellow beams of surright. Once above the cohorty clouds. Beth at-

They played swift, dorting garnes as tube, garring acceleration from Levyatheris soin. The tube walls were a dense. an plive limb. It rode a prosewind, unfuridown feet on Bake. This parked to be a mutake Risk Boped its revolution tail evaluat and automized black craws. The

a long pash down the sail leaving a Nest. Both called as the skyral

Three soll cossing." RMs called We'll lose them. "They were probably nome new adequation, she thought Beomental sergeiate plus necocotes authoris. Beth bixed to oos outward, her wings, spread to the tillately beach of the Lenn hear their holders spoke of the green and their specific plus period to preside the president progress (specific plus period). The wind registering minimals too ownering the surface proposed in the foliating at the proposed period to their particles of the company of their particles of the proposed services and the progress of the company of their particles of the

sching air.
She loved visting her mother. The Levisithen wise a visel living ship, the marking her mother is ministell occount to every moment. And because no Levisher noused be made perfectly safe, the very air here maintained with the lovered less of danger. This excelement immigiate with a warm senter of being in minigide with a warm senter of being in the control of the contr

immigried with a waxin states of buming inter immaters being entriesce. They were book when they recorded that sworthwish stan and facult at venering and they fell by amademy being or and they fell by amademy being or coast. Through this crystaline fatises waste first worked the Lewsthern signling by in the custod distinction. Date of the coast of the coast of the states freque only a region of the coast for the custod distinction.

saring ships than predators. Yet only a

century of bottech yowned between these simple constitutions and the Le wattern's visit completely RNs pointed with a soundy tripping

Bible portfeld with a springly trigger Agented the inseming bisochores Rick bolad more their the meture of other and force that had been its starting point but its high forehead and perpetually assistance mouth impedit its too devenness. "Comet Gotch". All Beth separate the mouth with the book of his hand. "Morn If be gold. To reach the turnting churic of look absent the turnting churic of look absent the turnting churic of look."

selects the Linderter jested great yet in low-writing plants behind in "positions" is personale inches in included information in Softh Heil selection 1. Line or more than selection 1. The Line of the control delayed date of cost believe the companion or redevey was the best propulsion. Chall seepards through even the multiopic crystates is layers of the better Beath is purchast office selecting in winn controlling to the controlling of the controlling greatly selecting in winn controlling greatly selecting in winn controlling greatly selecting from the greatly selecting selecting greatly selecting from the greatly selecting greatly greatly selecting greatly greatly selecting greatly greatly

Sometring steek and net sed lang teef at her It severical trood legs, beinging abound a set of gaping presive and enset girting teefs. They snapped shut on at Bath had wind miled her arms beinging her legs up.

She had nove soon its home be been it exapped at Rise who had dog claws into its casely back. When of how And have came the second out of lesty conceanned. Both invew ber kind with an overhand by The hergy werd all of they past have with her her porcess. Riske had the lest in a sterrige hold. Both spotched her had nightness herrish her like the limit in a sterrige hold between the herrish and second herrish her like herrish her part night in weighted and when the weight and of the method particular the second and only method and when the herrish had been also weighted and when the weight and of the method particular the second about the method particular the second and the second and the second and the second and the method particular the second and the method particular the second and th

her Probly from rasped as the field to pick free.
If you can't dodge on, she thought provide the shear shear on the who and brought her boots up. She hif with a stadying crunch and urap low graying makes for filming construction.
The timo viewed and field PMMs.

The thing you'ved and fed Fillers absolve huge line, is bused below tengus billing. You've Filders and Beth subbed the yellowers will be control to the sam. She called her mother. Fur is furn Morn but his wall too clock in the supple voce sounded five hape they called below to be supple voce sounded. Yer hape they called below the supple voce sounded. Yer hape they called below to be open during the property of the property of



We a contoversal new scientific concept. Mr. Darwin, but I don't like the little I

built up from an earlier arimst. Our addons make them smarter, but we kept

from Rédaie ribs "Look-Rélais hurt?" Mother said "Rikki is designed for

Our animals are smarter. Both and Ride flattened its mass in designer-

ment. Pan is duty Tita Filido Those is duty. Rest stad brusting

Mother and Tapologum Here. No He shock his head. His office was menfestation was a fock of nationda the foliage corring together in a setting chichood. The warm, way mouth and

it may no meet provided contercal Levelher began peeing layers from the

Look of that dark south Morn. Threes, no periord. But gestured of the hovering mitted sweets shough she know har mother could ase better by tapping directly into Beth's own eyes. See-Scrape of the test feet meters, there is

Oh Disapportment laced the saky yours in Beth's head a profit on selling up to the inner plan-Both felt her mothers chagsin-hetwell, coffice out to the Leaguiters a reach Beth could sense the Levethern a skip-

Hey you! You find a nice not IZ CHAI

They spew spents into the sole-The Levethen whimpered and dut-"its only so animal deer mother sead

Good boy Now-Total/

MOD DOOS!

Dave Brandenberg knew he had a problem when he wolked into the area You know the vehicle had to be some-

€A slook skyrat shot up at them from

it rode a crosswind, unfuring . ecrashed-blue

mainsalls, coming down fast on Rivin Thus proved to be a mistake 9

Debton Disalvo. The RAD recent The new woman digit know I'm Dave Brandeoberg I work from. The new reception at looked as it

If was a long weekend I and Bran. denberg. but this is noliculous la last she'd been handed a question she could deal with. If believe he's down on

stayted for the elevator Thereis he said over his shoulder When the door skid open at the testing in white lab coats all carrierd clinboards all crowded around what re-Sag Cat [see Been Bag Cate on Drastile Treble November 1983) with to the other agusaking saving several of its equally apprehensive tellows

jabbed the Bean Bag Cat's laif with an electrical strruktery probe "Attack" mouse "To Brandenberg the cat was obviously straining to do just that. But yowled in frustration The women

What the hell's gong on? Bren One of the weeder grad types restricted his arm. While the confirmency lost subjects four pows sometow en-

showed his way through the growd of ding it with his left he started to portly styles the stancel by The core had

They're working on my sufficings bon next a barrier young it was Caleb Montgomery hand his entirely supe-I guess I am Igo gard Branden-

lowed. We'll go to my office

variated oftice had been. The later miler angle of the scenery outside the I guess you haven't been told about 1 guggs not, sept Brandenberg, He

smiled dightly. Maybe you'd befor till

shrupped 'Tim in you're out That's basically n

a little curious about the exact mach-Well said Montgomery For the first ame he looked mildy uncomfortable. job developing the beenbag dats for the gene-tatored pet market

"A tine ob." Wortgomery continued "But that was an years ago. The probiem is that the corporate big guys need a mracle overy week or two. They rearewerable to the atocknolders you "Through planters plantered aftered to

egres, all that

"So you were way behind with the modular dog project, said Montgomcleaver. They care about results "The result and Brandenberg slowly. 'is going to be a concurrer of

fers cleaser. The mod dog sort ready for market, not by a long shot? Mortgomery senied That a where I think you're wrong. Dave I've gone over all the field trade. We can be n every mall in time for the holidays." "I's bottomine logic Brandenberg and stubborny. Balay be darmed

"We've not to compete with tree itee. red Mortgomery. The mod does are competens and they is sale enough

Brandenberg looked him in the eye. and Moracomory 'mayon

Brandonberg know the relatence was to the acc in his pocket, but wagn t mincled to make theirs any maker for The problem, said Montgomery is the cardence systems for the modday dogs. The chips. Your pet program mer in Nashwille. The dogware. Do you

have a with you? Brandenboro stood (First.) work to It was Morepomery's turn to store "Okay" he finally said. "One last look The modular dog project was quar

Montgomery's card worked, Brandenbero's chant "Just like that old Twelone Zone he said "My stentity's being man looked at him blankly. You have no mecaneton and no hamp," seed Branderberg "Maybe you are perfect The modular door larged places re-

rended Brandenberg of Mombi's cressing room Mombi being the Oz characanother reight change hats.

Thave to admit said Mortgomery theyre coming along line now. He as though in benediction. Four sizes of body modules, leg lengths tailored to many interchangeable pows, six asevited erouts, modular cars, pop-out in with the slip in sets of guard-dog chappers-those babies'il out through

So a customer could noter say a Dobe body with a long broad tail, short Yeah said Montgomery Jertalively

Mortgomery looked vaguely hurt 1

 Brandenberg watched Montgomery snap a deactivated shout onto the disembodied cranal

module of the largest model dog. The Niws opened

mean mother "You also know here my closed, and clashed together ?

He picked up some plug in claws from a courses. Nasty business here els Carbon-cored alloy sandwiches File your guts out and net even squatch "I thought the main finust of the mod dog program was to supply some pretty

vectoble house pets for Chartman "said ting an array on the side. Different markets, and Montpore merketing projections say to be ready

the free on Christmes Day and gets a rute little basset outlitted with the parine equivalent of a GI Joe combat infantly package? "Only a creedy oproprate structure employing mept personnel would ever

"Wrew" said Branderberg, "For a "Hey Dave" said Montgorney "! know you're istrated by this whole thing.

Beanderberg watched him arrap a dog. The temporarily toothiess privil opened and closed, stretched and clashed together. Welch and Mortgerrery sounding postwely cheerful He dicked the head onto the broad been a hyere body and gave the mod use a half turn it looked into place Lefts see: Montpomery sounded as though he were thirtieng aloud "I've been thinking of calling my little buddy

Brandenberg contemplated the emerging behemoth. Sitting up on its There was no reaction. Managemery

more rephian than canno. The probform as that he is all brawn, no Error Ah, and Branderberg. My mo to Our reluction colleague the become "He is that The very best in fact the

We can pay him enough to keep Yep But you know he's already ech. Emrajerberg weighed in More-Flex was beginning to look like one-

We did call him. You're right about tornéy loyalty" Mortgomery ciancod from Brandenberg to a set of wicked dog teeth out the first dentures down

ingged assemblage Localor Was a scale model of the ory clicked the teeth into Pinx's inwis "Mm hm". Reca muster touched a lit. square on the test panel, and the doo's gave slowly opened and closed again

Cents on the table, Dave What will Tor the guidance system dogware my brother encoded for me? Pranciers He slowly extracted three gray plastic three cases on the paim of his hand Two wore hand labeled with raccord petches of masking tape. The labels

said at sureviso and not popula. The 'What's that one?' said Mortgomery "Label carrie of" Golden retriever "I maly love settingers. Had one when I was a kid!

1 know Caleb," Brandenberg sched



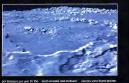
BON VOYAGER

BY SANDY FRITZ



taking 118,000 photographs, the sepaceanth that would fill into the back of a picking track (with a fill into the back of a picking track (with a fill into beam elicking out) has one more poture to take a farmity portrant of the abler system, selected for this February Beaded that the February Beaded shat the show is over American

techniques forted among about 20 cents paying about 20 cents



· Noroid, a Neptuman

orbit of any satelite, coming

within 840,000 miles of the planet, then wondering atmost 6 million miles

our money bought? Here's a moon, has the most elliptical look at some of the state and aurpress from the Voyager's 4.5-billion-mile mission to Aprior, Saturn. Uninus, and Neptune.

e Five famil rings of dust surrounding Nepture e 400-mph winds churring the planets hydrogen-One day: 16 hours One year: 165 Earth years Weintness + Neptune is the planet's hydrogen-halium atmosphere.

• Six more moons, bringing the lobal to right.

• Nepture's clouds orbit in an eastardy direction, op-poste the planet's relation flanest services. The colored blue, resulting from a methane atmosphere
• The planet bosses a grant seem, large encogh
to swallow planet Earth
• The solar system's third
biggest planet has a solid colored blue, resulting from Biggest surprise. Tinton, Neptune's largest moon, is trated pink and him to cosp, perhaps composed of

directed waterood in a

own atmosphere. Fifty dark

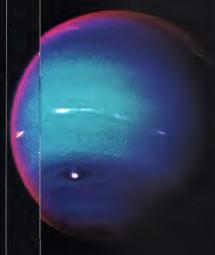
+ Ten more moons, bringing . Two more trops, making

suggesting volcario schvity. Temperature: -400° F.

One day: 18 hours Sine year: 84 Earth years Weathesic + Uranus produces a "dayglow" that releases a lew littlen watts of

power into space—enough energy to supply the power needs of New York and

Los Angeles for three days Voyager found # An morrelant carkscanwike magnetic envelope enguling







nine regs around the planet. Biggost surprise. With a magnetic north pole near its equator, all the only planet in the solar system with such is configuration. SATURN

of supersite, tidy bends of particles from dust specks One day: 10 hours make up its rings. Voyagor found:

"Shepherd satelikes" keeping sorms of the rings in place. . Braided rings, the result of pulling and hagging by Saturn's sololitos.

Voyager found: 4 "Super-botis"—10,000 times more powerful than earthly lightning botts—spawned by 350-righ whos cofector Salum has copped 23 satellites. The most precocious is Titan, with its nárogen samosphere and abundant hydrocations, key elements for life as wo know it. Yet at nearly 300° A wepty ring made of microscopic particles the below zero. Tituri meksi our size of red blood onlis. Biggest surprise. lo, one of south pole look like a tropcal parades

valcanic metter two miles into the sky. One year: 12 Earth years Not bad for 12 years' work. Total cost: \$885 mil-Weirdness, # Jupiter hourds lors, with S65 million more sizted for follow-up work. By two thirds of the soler system's mass, 318 times more mass than the earth e it has no surface crust, just increasing densities of gas that eventually turns to than the cost of the entire Moyager mission. How's that for a bargain PCO liqued; 4 has a rocky core.

Jupear's 10 moons, is e

"volcano spritzer," shooting

Below: Voyager 2 will enter mechanical

ming person to produce

dest durch barning disobilities, sile-wide depression, and lansely, normalize blood prosourie raise IDs, emprove vision, clear up acres and grey your frequir seprenty. "It you clear that a machine roduces stress or shress-related firest, that a medical device" explained Katrieren Freat, at that time of the PUA's neutrological-devices bench. "But if you make no medical claims—if you pust claims ample relatesport—them.

he words carefully present his meonly. It's faster then hypnosis or meditation" in 1985, however, an FDA reemewestigating the Synchro-Energizer noted that "the idesalate reveneed inreduction learning disabilities psychotherapy and addiction control. The report also mentioned some invisiony surinvincion Gornesis decrees. While nanmotores materials "selar to him varicusty as an M.D. psychiatrist and Ph.D. "according to the report Gorges. allegedly admitted he had no tornal turning or degrees. (Gorges lold me Correction university but correct practice record as a toonager | The FDA seam

said. 'It appears that the product

Cain passous requested of lots and source start of an enelogial consequent of a control of the energy control

soulities and werrors of cardiac patiemakers (because of possible electromagnetic interference). Gorges direads FDA regulation because "fren there would only be big players. The interfers and creative bigos would be buried." But he also trains the invertees foreign transcribes videntially to PEA intervention by making sorgaligate claims for their machines. Sever thinks its mexibility the off frees machines will be obtainable only by passcription. Fortunately for all the entreprensis.

only by prescription
Forfunately for all the entreprenous
here's an FDA tophole trown as \$10K that waves the fall gettral of clinical
trails for any machine denies to devices
to the makest heters 1909, and o

sound-and-light potatippe called 1955 in this been inquisitance 1971. At the same limit, estimation is sound and-light was confuse the lines of lot stuggle even more. Gorges is mescu. If all and character character with an OL allogacity, of 1981 and a knock to recomplemy the account follow entrepropriations of violating his 1962 patient. If "He is a powerful immediator," sept Soor, Inc.

covers only a particular carliguration of sound and sight. "Ne got some people soured for a white." Sever high Curgos has implied on occasion that seal monthness may use potentially harm for requesters for their particular and other inventors say that Googness services and sever your same services of the monthness, Ambagus services of their common die-

the computation wall through the southeard light community. Will free machines soon take over cur like the personal computers or will red the mod information squabities squaint. This massent psychotochrocopy? Byou wint to know anything dont ask the FDA. The resulty teled "page without" officer. Date Durins, and I without "officer Date Durins, and I will red."

agit machinis and I wonder it—
"We know nothing about it"
"That is odd because I have a scord
of an FDA investigation of one of them
the Sundrive Energiaer

the Synchro Energizer.

"It iffs under investigation, we won't comment."

"You mean this FDA policy not to give out any infurnition about any drug or devote its investigation."

That enote Can you tall me if something is under review?"

No We have no comment

"But under the Precion of Information Act one can obtain documents about this"
"Try and do it, then

Try and dout then
But I didn't care. After an unpleasanswess with a factural employee. I can always turn to any linner Quest, which lets me may low-tropuncy brain waves with more an analysis of contraction.

STARS

and thosait hargins has an ooa. Hat outs is the road of NASA's trait plan etry missions program, and he has owns up with allow-budglet peep at PLIO that hought. What he has in mind is a program of the road of the program of spacecialt already in the works.

The other laurch in NASA Solar Probing accounts when is othered along apparent. It was not other lates of these all seasons the end of the need discount of these all stong geometric because of these all stong geometric because in other to pass through the sums abrood primer whenever possible them execution to look the appeace off the Teach and the lates are to look the appeace off the Teach and the lates are also the Teach and the lates are also the Library and the lates are also the Library and the latest and

the plane of all the planets in order to approach the sun from above. Fargular's flesh of especial points out that thereis no reason the Solar Probe

spacecrast ras to be access on their light. For little matter energy only at think like of the cost of a separate massen. Pluce probe can go along on the first two legs of the partny. Then it can detach had a appear make its com courte conscious and return the less-ever verse of Pluto in just aloss 25 years from now is a degree to Rapport I could it will if

errough space enhances speek out and as makens can be persuaded to divert a liny faction of the funds spant on retisearch in new ways to bill people into the pursual of new knowledge. The beggest detectable officerance be-

to ween the furner upon and the other arinner species that install our plane to
that humans learn—learn all they can,
about everythering they can had to is such
the flushing physician had of learning that was
repossible to everyces between us
to we containly have the dates to the
total or myster covering Phili. We

elect to expend from in that way instead of some other. (Concelling a single 18-2 bumber would here instead in the sought of hundred million deltars left over.)

Do we have the with a make it happen?

man exploration for the rest of our lives?
It is up to us to decide!DO
WORKGERS NEXT ENCOUNTER
With 25 years of its left in its power

cells libyager 2 may have one more encounter in abor. The specicraft may be the test to reach the heliopause, or arewhere solar winds meet who's from other palactic space. The heliopause could be anywhere from 10 to 50 years away from Poweer's present position.



Sleep can be more than just a rest period It's night work—if you can get if

TWILICHT ZONES

BY JAYNE GACKENBACH AND JANE BOSVELD

ne night eighteenth-cantury com-poser Giuseppe Tartini dreamed that he gave his worn to the Devil to test the latter's skill as a musician. The Devi played a beauhad ever heard. When he awoke Tartin. sumped out of bed and grabbed his volin, trying to recepture the Devil's music Although "The Devils Tril," as Tartes enabled the composition, pailed beside what he had heard in the dream, it is still considered to be the

Dreams have often offered fortie circuitd for new ideas and printic neights. Such writers as Robert Louis. Sigvenson, Charles Dickens, and Charlotte Bronté, for example, found in their disease. But most people rarely head their diseasts, going fridugh Me unowers of the propertion dreams can frow, seemingly out of nowhere In one of the reast famous accounts of scientific inspiration German charged Fredrich August Krisum clamad that in the 1960's he discovered the formula for the benzone ring in a dream

GEORGE TOOKER

One of the makes second its own but and the image whether scornfully before my eyes. As bought from a fish of lightning lawder. The crouler image of the stakes, the lawder of the stakes, the lawder of the second that the lawder of the second that make up the between makes (According to Southarn throng Limerstry chemistry or the make up to the lawder of the second that the lawder of t

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NOCTURNAL FLIGHTS

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it. If is possible, however to dissolve all it boundaries while lucid Indiaed it is an in essential sepect of moving into higher states of consciousness. Feeling unrestricted of course, can

notes above the cround and his diff-

Feeling symmetries of course, or suite from found right steep symmetries and the fine suite for mouse of privates is profit after times feel stammer load for the load for the suite for the suite for load for the suite for the suite for load for the suite for load for the suite for suite suite

Dissolving boundaries in lucid dreams

is central to West Genman psychologist

Paul Tholays work with states. Including Immed Thelay woo sereal important statisfacturing championalities statisfacturing championalities to statisfacturing that paul to the paul to the

separated his goot Mole important, he comes over his lead of when time of his soul value of patterning in the soul is actual value of patterning in the soul value of the soul

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stadings and related variations have a transport of the control of the control of the transport of the control of the control of the transport of the control of the control of the control of the control of the monthly independent of the control of the control of monthly independent monthly i

rehearsals that re-create the whole ath-

centered on anticipating her opponent's

emment Spirt, the minite Godhead that creates the cosmos Globus makes a distinction between

Globus misses a distinction between the creative that give me to the variety of "unique life vortica" and "formative creativity is deeper level of creative thought is because it we threfore thought as empty unified obserced Soil as strange to conceive of thought as threving up a world. Formative creativity between the conceived and the bate between most clay demonstrate but between most clay demonstrate the creative capacity.

creating of little they are severed in the building of the little they are severed in the building death of booking for our and we find a building death of booking for our and we have your deeting a building of the content of the death of the dea

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Amila Tanto Bagorisan for one uses
Loca disaming is the purpose account of the displayment plant of the control of the displayment plant of the composition of the displayment of the d

in a typical dream she will walk into a gallery museum, or studio itum lucid exemine a completed painting or eculpture; and then later, when awake laterspt to

On a superficial level the bud dreamer seeks a calcium on a wiking problem, which the conduct dreaming must often conclusing for section of the control of places an empty cervals based in a set places an empty cervals based in the officoncernates on the reset for importation to fill it When he looks at the dreamand course in seasy, or imagically fills with a picture. Once the desire has been full fined function place to make the has well remonster it. Lucid dreams, including membrased than other dreams (Sicilian)

Year Conteiling Your Dealers Orns, April 1987.]
Conscious severess during load chains entating us to say leap tell buildings may also send considerate application of the severess with a severe consideration of the severess with all experience boundaries. We all experience boundaries or posterior of betheard in the Were consideration of the severess of betheard in the Were consideration of the severess of betheard in the Were consideration of the severess of betheard in the Were consideration of the severess of the severe

scious. As children we learned to establish boundaries between reality and fantissy Liess obvious are the boundaries we place between our minds and bodies. We

boxs but somewhere deep within Perhaps we set up boundains between 'self and other and between 'self and the objects of the treat world! Even in tuoid distants we often set up boundains between the conspicus dream ego and the creative acurus.

to the creative potential of Local direction. When we know when dealming, it is not unusual to breek through the traditional boundaries. Local directions can push from the company of the

In locid disease we may also continue to function with the boundaries we carry over from waving its For Worsey this vice illustrated by his ability to float a few



One sip, and you'll know why.

For the guru of Macintosh, designing computers and software is a subversive activity aimed at remodeling the imagination Within 15 years, he says, our present ways of thinking will be as archaic as medieval thought

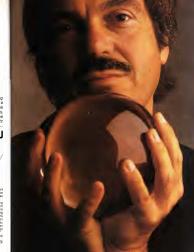
INTERVIEW

ALANKAY

■ a there something impaced in a log? The answer is yes. You level he says: "The cirty question is how subvettine you want can make a into a violan, pipe proxin, or plane. The computer to be in Key's dreams, the personal computers of today time too has the ability because it holds inside itself descriptions. way to truly intimate computers that respond to our cestures. of things and it can execute those descriptions to cover the whole spectrum of musical thought. There soft anything it can't believes that-like the genetic material of a living cell-the computer can read and follow its own rules to levels of selfanges Key but the way human intelligence sits in from of the computer, interacts with it, and comes away changed by that guter interfaces and programming languages is a subversive activity. To shape people's perception of this medium is iterally

For much of his adult life. Kay has been heliheartedly berfling a peternty sut recerding the personal computer. Many claim he is the dering's father but Kay derives it. The criv things he could be justly accused of simp, he says, are the overlapping wendows that characterize the way computers look to millions programming languages. And the term personal computer, which he coined in the Socies to desinguish the new generation of markings from the institutional munistances, which were then

In his present position as an Apple Fellow Kay heads the firs PHOTOGRAPH BY TOM ZIMBEROFF



real basic research Apple Computer has over indulged in it is a been beeing pronot about artificial intelligence, partiered in the inner-city Open School in Los Angoles, with 300 test through swin graders as the main carriagonants. The project also tweeter Kav's interest. His relinanch of the volved voungsters. They shake up his frinking he sees "help me rotate out of

Kay is really a fixed brain. His jobs at Xeens, Alan, and now Apple have re-Yet Kay maintains that the most he's ever soularly original thinker." he told an inter-

only require other people's ideas: I love from I have forty-live gartons of other people's ideas in the garage His love of ideas knows no disciplinary bounds. To eaglain a concept in comrual psychology molecular biology mecleval fistory, science fiction, or music Even in the most informal conversation. his words are punctuated with toolnotes.

Luhan, that notion to Jean Plaget. To other porce or Douglas Englished Key pays Born in Springfield Massachusette, in 940. Key grew up in a terrily that ambodied the "two cultures". His father was Truspours "I was set a happy accident." no says "but of course a made me unhappy for most of my We. Because there licularly the music stuft." Although he can't

seven, while attending college on the side this earned a degree in mith and another in molecular biology from the University of Colorado) His memories of grade achool are not havey ones, and the philosophy of edunation he now arrow uses in at cytok with

what coss on in most American classrooms. The schools love conventionalern," he complains. "Generally, the more conventional children are the more that self. By the time he was eleven, held read version of a famous Fitties radio and TV show called The Quiz Kids He didn't make it onto the national show thoughwhich he says was a traumatic expenence at the time. "When I met some kids

devastating." After nearly flurieng out of

remembers as a 'massive staging ground for MIT, with as thousand boys and no at least it was challenging The US Air Force introduced Kay to

computer programming in 1981. Thus suit of a graduate degree in correspor science at the University of Utah. While there. Key worked with engineer Ed Cheagle to design a prototype personal computer called the FLEX machine. It was not user thendly. But no metter. From FLEX it was a quick hop, in Kay's mind to a truly personal portable powerful computer that would become as ubiquitous as TV sets and aimost as easy to

the size of a finee-ring binder, something After Utah, Key went to Stanford Linversity's Artificial Intallipence Laboratory

€We'll have real personal computers when there is no

aniaff switch. They'll be like cincine on all the time. Even when you

sleep, stuff will be tricking into the machine.

and then on to one of the headest think where he spent most of the Seventees had a concentration of people that was unbecessive," he says. They weren! Until recently. Key devoted a fair por-

section of Los Angeles Interviewer Davis Sobel talked with him. only turnehings were a Bosendorfer grand piano, a long, narrow dining table. with its two observitacing each other at a toyal distance; and a cardboard mode of the pipe organ that Kay designed on up in an Apple Fellow back office, a clutwarm a hacker's heart.

Cress: You've culoped that you've really not a computer scientist but a failed music today is that it's mainly about what a synthesizer can do You can do something auditry interesting that has no real musical content Composers are now trying to figure out what is contact for the tring. Venous garries of the twentieth century are really about the meterials that sun to me. We taking a broom handle and putting it down on the keys just beanatches of this going back in history, but the preopoupation with meterials in this

certary is an act of desperation mayquerading as originality Orny! Do you trink programming is akin Kay: It closely resembles musical com-

position, not just aesthetically but strue posing a very long Gregorian chard programmers, there's essentially just one melody playing that's complicated and long Using a computer though is not ide playing an instrument—at least not for me. fit's, we used to say that Doug Englabert's [inventor of the mouse] greatest contribution was to show us the corrector can be a violin. Linteramately, to use the eyetem. The your earli difficult it just taken a long time. Arryone can learn how to play one but most people aren't going to make the effort. It would be ler-Overs: Perhaps it's more like a kezoo? Key It's okey to start of as a kazon but damn c. you don't want to keep people

The hargest thing in designing the Mag user interface was to have something there essy to get started on as the kazoo is but actually admits of the possibilities and his Apple office in the Brentwood the starting point. Gradually the training wheels come off and more and more possibilities are revealed. And then you're Over Let's settle the paternty pureton

once and for all. Are you or are you not Kay. No The first personal computer was done at Lincoln Labs in 1962 but was PLEX machine I designed in the Sotias

is, as far as I know, the first thing even called a personal computer it actually today and was outs powerful. You could do austlanding word processing and simulations with in But only graduable statudanta blade of Thata when I fast climity realized how important user interface might be People were doing them since 1955, but it wasn't halby a topic of conventation

but it wasn't really a topic of conveniation until the late Sirees Own: So you did coin the term personal

computer³
Kay Yac, but it doesn't seem important, because by my definition of personal computations and among where not selling computers to the whole world may etillize by on the business. They've sating to go into business. They've sating to go into schools but among one proposed incomputing when herein no child world. They've be the closes on all the seminating you go into this herein and while the seminating you go into this herein and while the seminating you go into this always available. Even when you've adding you was a seminating you go into this always available. Even when you've adding you was a seminating you go into this always and the proposed of the seminating you go into the seminating you.

able in two when you're ablect, stuff that you life agorts made the computer thrist you might be interested in will constantly inside into the machine. Once if you Dynabook computer was to do all that and be postable, too, not?? Key, Yee, the idea for the original Dynabook was that it had to be so postable you're you're book was that it had to be so postable you'd be able to carry computing allee.

too You wouldn't put your grocery lest even on a leptop today Ower Willy is portability important? Kay, IT goo you a historical answer The maker is not of the original commission decided publishing system. The original Asias (Warmius, 1925-1959) was a conwally as the control of the control of the the property of the control of the Residence than any other indecide technical control in published and become control of the control of control of the control of the control of the control of the control of co

Open What was the germ of the Dynabook computer? May, it was a collatan of my teeling that the PLIX machine was a failure seeing paperts and [Seymon Papert developed the children's programming judge Logo), seeing a remarkabile system for geldum recognition at the Bard Corposation, and seeing the find panel deptitive the Lowership of throse. It was a first throw only of throse It was a first throw only of throse It was his science letter of the Filhs. I state on thirding about partial to ELX mether on the back of an application that we have been and the science of the back of an application that we have been applied to the control to the control

celly lawy diseignest for dather I positive children because I had the vegue deel than it we did sometime good for children children seems will find adults. Not also related that if we were going to or also make the first were going to or to like a REEX matcher. The did or nobble like a REEX matcher. The did or nobble the or think going to went to use it unified the trees—maybe by John blackdate with it. Whan I was a bold see the careful Comm. See when you went to Massachine.

graduate students-were trying to de-

tiem to guitaru recognisco et the Bard conception, and extraorbooks. Corposation, and leaving the high residual collisis by the University of Timos I twai you begain work out to Dynabook?

a light thing with a like before it was proposed at all had become leaving the proposed at all had become leaving the begain work out to Dynabook?

(bytes—extraory to good at all had become leaving the proposed at all had become leaving the begain work of the Dynabook and the begain work of the begain work of the begain work of the begain with the begain the



made up a list of people I considered to be the top one hundred computer acenters in the world, and we had fifty eight Grow Your recollections repay valuable the

Kay. We've collapsed hundreds of years a single Metimo Except for John von Neumann Inventor of game theory. Varneyar Bush Isseenery electronics

versied, but it shi wasn't there twenty

things had come Looking at what

not a single thing very hypical of the

were astoundingly Key: Partly be-

gloais Thurs, soo

the Suites Those CLAYS WHERE TAMESTY

Centry This Dignational, web, at the property and portablety, hasn't yet come to be feater in certain ways than the original house to be. The display was the size of the Dynabooks. We wound up building internally of Xerox. By 1976, when Xerox rossouthers decided not to go afreed with

paper design or prototype; they were turning down a system used by hun-A lot of the old Years(MCC margin was at Apple now Apple took the torch from

dred million dollars to get out the door

The narry is that Xerox is solling comsystems from somebody else-like their desking system—even though the first

dis in marginal engineering mone than you it's going to be the keyboard player But to do that For them it's sust part of the

ogy for me: racko isn't Its sometime like the media. That's out now called Furnishing the Future that

Pop art.

CODORNÍU

Uncork an Occasion Vintage methode champenoise, since 1872.

> names most of the names, although it rety to go down in history, don't think they

Key. Let me use another musical analgay. While the Macintosh has about two thousand parts in it, that Bosendorfer has you have to make the audience believe computer is a macks hirvo repre-

standing of the original The dostiry of the com-

Classes Rut this recoresentation is taivration become of the computer's read proving? Key Oh was When you cross the is absolutely unbounded. It transpends obviously Work promach that from tricky things because they're in the un-

verse, but their interpretation doesn't have green ideas slept function. These brobapy aren't any green ideas and they probably wouldn't sleep funously. That is



Key Right If you drop the computer if will smean because its subject to the laws doesn't require any kind of gravity. You by constructing things, the computer is just the cat's ass. With the computer you have can be at an all-time high. McLuhan read chroso books creeted the Receipugated in a room with thirty other people. like you were at Oxford in 1230 A.D. That ating the notion Her. I've got an ideal in

really sust a glorfied typewrater What am Key Most things pappin do on the compaper With exceptions. A spreadsheet is paper that doesn't mimic anything any-

weeks it doesn't look like Focal Point anymore but like a reflection of what you're Once And en't this the answer to one of your cireams? not suit connectable paper It's dynamic. Key Yes Suppose you were hired to debody was ever willing to write. Before for Advanced Study (where Einstein Elete was 6 program, only people under worked! Design a system that could ec- of trinking that is as different from what

down there is a mage of apachet). We

connect this up to that " After a couple of

a painy example of what the computer is - dursss would calculate aprendsheets. A different pulsuits. This is the starkest case vented for. To the great surprise of its inventors about soverty percent of the inthe average user in business as a Orant: So the good, then, is to get people to use the computer to open up comrun over by a car already. Most people are frety intelligent and expert at what future. The next big thing after desktop. an example. And what I came up with is that you should descri a system that almino. The reason the softwere program Focal Point works, for example is that you in and remake it. Computer material isn't r. Ps - set i no ri standa il takes e little the stuff in styce the way c is in most acob x. Wall you gan. You can goes up the

create they own programs? Identite if all he could downs read. People are womed about the twenty-three miwrite. If you read but don't write, it's a little programming tasks, then it's just a whisker from these in mal program writing What neonie will do word he reconnecable interior fifteen years, we'll cin a kind we do now as our way is different from from facts and look Greek Whose ideas influenced you most

TINNE CHOCK THOUSENEST TO SERVE THE PROPERTY OF THE SERVE THE SERV

Kay. The strongest single influence was One of the forunders of cognitive prechology in the late Fifties, Bruner got very integrated in one of Piacer's key ideas of thinking at different times throughout his development. Plaget suggested that noon from chick to adulthood is like There are distinct stages, each one func-

experiments, but then he firew in some wast workles. He showed that if you a moment, you could switch him from w a of to symbolic thirteen, which he a not according to Pleget. Once they can't see, they can start measured about doesn strategies—all kinds of things—very well Bruner frought that there were three basic ways of knowing a kinesthetic way mercals, because that's registing MTV is very deep, elemental, a visual way, which has to do with how thinds figure. Key Year the two things I like on TV are table telepo to each other, and then a sports and MTV. They in both perfect for

These medelines seem to be operat-

by doing. That's why they have to be prosee a clift don't have to be tested out Bruner's idea was that propressive alienation or holding of the world—grang from the symbolic -- has a lot of survival value. And Property stroom pen be explained as the Bruner mentalities. Thei's a big idea. Grad Earlier you livered TV to the kezoo is there anything in TV for the "interective adult ?

Ker. McLuhen don't overlap engush with about it but he beautifully predicted MTV thrity years ago by thriving about the is more about being interesting than insolving an image than getting grything Gener Dounce programmation of

symbolic way which includes ressoring tallowson. You've probably in the worst

ebout astrophysics by watching Cosabout Carl Sagan and his heirout. That's what TVs about The best fring about million people to buy his book, and there's a lot about astrophysics in o Organ So you currings the whole gon Key, It's a paradox. The more interesting

you make TV, the more people should can put good stuff on or bad stuff, it s watching it everything is different about you then if you hadn't Omer You've worked with lots of kids

Key. The chicken I work with today are the kids twenty years ago. You might call the difference a "hundering of the catenorms. Television is an engrinous force rosily tough to give one of these (he neighber down and people a black of grass? rable. If you shart off with too simple a set

everything. Then the within world be-

comes demastile and voure notino but

he Soviet version of the Boy Scou will search the skies or massages from extratorestrais

AUTIXMATTER

JED JPDATE

EET Kardander stage, to I on reconsista electromache pagni Innua i Lana be environ.

An earry set if the its Kardander som respect, when course on a 70 met radio electrom is to in installed land course on the course of the course of the course of the coupse is being tour! to study electromate bodies also a few stages. Out we expect to intent democratical EET laywards from these pages. To their democratical EET layce according to the Chromosa's Pool hands with other lands are according to the Chromosa's Pool hands with other lands. The being Penasses the Speak version of the Roy Scoots. The second section of the Provision Support of the processing of the second section of the second section of the second section of the second section section of the second section of the section of th







reported sourced to bee the out. Life Uranus No had a bright titue color powerful magnetic Not numerous unknown mod hou swenspy core, and to

The question remained how the Sumeries had lighted all of the outwind fighted all of the outwind themso when the plant are invested to the naked are lighted to the naked are the Sumeries know the unknowable his decided to cause extratometrials had that them. Specifically "as that them. Specifically as that them.

The only difference between the second to th

about finding water in the Neptune and Unimus righterns. All planets except. Mans and Venue have in liquis core. We also all expected a magnetic field. And we g liver i reput work execute planof X in olar system (se is often lead by modern astron s) If would have no ecouse it would be loo

pessentation of random ars not meant to be intereled as an accustic potent the colorios. Positibaria ston, a respected Surraman ricklar at the University of

> This is clareport in tays. Curentism 1 are open to writtens by those 1 abused enough 1

parties inconveyance of the and the moon described by And learns was discreted and the moon discreted and the moon of the control legal of this balls by the control and the parties asset in the balls by the control and the parties as the control as it as the control and the control and the control as as the parties of the control and the control as as the control and the control and the control and control and the control and control and the control and control c

> see international and da sizzey to Uranus have wed in Convil, others in sell-two full months bofor yagan i proved them



DRFAM

life form-be if Wonder Woman, the Cheshire Cat or the Blob-there can be of your own unconscious creative processes. As dream researchers have long

pears in your disams—even those who of your inner self. Put empty, you play the part of every character in your creams. It is therefore within your power to consciously shift perspectives with any one

esting-dream character and imagine how your dream expenence micht appear Imagine yourself actually tracing places playing in your high luced dream. What presently experiencing? How do your tecknop about yourself and your dream shift when you take on the viewpoint of

Continue practicing this exercise until dream characters or just opt to complete to your original character, tapping any in-

sights you may have gained from your in your magination

Please remember to record your role ing special note of any insights you may have gained by trading places with var

our thoughts, pulting into proper per

guide you should gain access to infor-

the analysts couch, spend the day ob-How do you interest with other people? How is your mood influenced by your lateral types of weather, teeths, music conversation, and noise? How do you feel chart the ebbs and flows of your moods

Sometime during the day ted a quest place where you can sit and reflect upon the condition of your personal Mo. Whose are you at this point in your life, respectively

cal blocks or other obstacles that have Now magne what it would be like to who completely understands your ener-

Imagine in as much detail as possible ing dreams. Invoking this personal dream



some ever Wound into person the avector of someone with thoring gray has a microlic agent made perpetantine in a three-special office of the person of the person of the been move, or a goard white mabbit common fatherly? Would be or saw were perturne carry as treatment category of their comcommon is consolidated by their commontal personal treetings with him or her Continua with this part of the common of all least find in most helpfore come about all least find in most helpfore come about the least find in most helpfore come about the same of the common of the least find in most helpfore come about the common of the common of the same of the same

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by burning receive and playing misses in the salaginus. We have been salaginus to be an included in the salaginus of the control and included and poor of team journal. Their crease a private flat or team and the salaginus of team journal. Their crease a private flat or the salaginus of the salaginus of their crease of their part of their creases of their c

tempt to enter the state of high laceby descrip from waking consciously view waking the you allow your unconscious mind to provide you with a sufsible oftens economic for extrorry your concerns. Your main focus should be upon exelling our in determ therapist to assist you in gaining lineaght into your.

Toward the end, as soon as you thid yourset in 2 minds of a high such deam, look around for the threspez you ensored earlier in the day. Don't work, however, if you don't encounter this individual right levely. Just explore your disam smechment in any way that seems aplet. Chief.

proprieta to the earth — by toot, by can be or even by thy no Continue becapites as it you come across the individual youther to you come across the individual youther to you consider the individual you do conscious methods added to regist you diseast their bits individually on consciously your diseast their bits individually on consciously your diseast their bits individually on consciously your diseast their test of the address and insights on your than refer to the real work and insights on your than the season with the continue of the address and operational statuting in your continued to the property of its least than the property of the most introduced statuting in your continued to the property of its least than the property of its most information across the property of its most information across seasons to the most information across seasons are the property of the most information across the property of the most information across seasons are the property of the most information across the property of the proper

or in the embediment of all the embedies and exponencies reading in your consists and exponencies reading in your consists and unconscious med, the other contribution man obtains of your lab Therefore your chem therepare should be sold to offer if you some aurymangly cannot made staggifthorum input about how you've personal with the property of the

€Imagine trading places with one of

the cheracters in your dreams. What do you think your new dream self would say to your old dream self about the action in your dreams?

of a personed freeziet or guide in a flight basis small, you may be able to concepture the control of the state of the control of the control of the control you practice the control bearing in a size your neights should become Please don't very or feel generated if

you don't meet your disearn histograp the info thim you protice the selection has been provided the selection will express your unconscious bloughts and leelings about the concern you to could on charring the dilay Will continued you dream thesippe on a rogulat with your dream thesippe on a rogulat with your dream thesippe on a rogulat society of deem theropists from a wakely of high hour dreams. Heremother, to corromations all study you were use the selection or replace conversional prophysiolate themselves.

Amagina a personal healer who more for and entences your physical health. Today you will expand upon the disem throught technique by inciding the image of a personal disease healer to passes. your in booking your immune response. Which you think who up in the morning, notice this way your body held sa you gat out oil bed. On your test shill of each of the off. One test shill of contition which like a powerful grazality? Or do you feel more like a hunted ober who by a tarquithing and red barfly glade? One of the ownerful grazality of the owner

in Micro III o led of relationship you have with your body sip do go body your do you purposely incur event the eight est opportunity for consider and going of your purposely incur for consider the and going of your short your extensive and purpose of your process with your led only on the purpose of your process of

your debt drees, and general here is physical carbon. The set exercise in a quel place when you can insic so do manifest daming the day and consider the current disable gover health. And there my drown health problems that have man drown health problems that have man should you first any time? When doos of the health concerns the my time? Output looking to be my men's when to go to you will see any promotily reduct or as in see or loss eachy manifestal? Allow you have the see that or see more or loss eachy manifestal? Allow you.

come and go easily which it hosting on the ham or and/app from the closely. Now magney what it would be like to have a personal leasily who contently modelity pour physical health and assuration in being one or year to dry to you in being one or year to dry three you in being one or year to dry three years that which doctor in bir regularly printing which will be with oost and disclosedper? Pleasin yourself stray your premise in seath settery them drive your premise in seath settery them drive hood on. Certificians with the part of the hood on. Certificians with the good of the properties in the seath settery them drive hood on. Certificians with the part of the

Begin the next part of the exercise

solicit ar host better you ghat sing up to bod Chrose an object that symbolium some agrebant comon about the cursisme agrebant comon about the curmight bit everytels choose a gant tea or greaty possion chaps to gerband or greaty possion chaps to gerband common hard deligible como and the company of the company of the possion possions with your feel Place the object free your beddies with greatly conferring your beddies with greatly conferring the great greatly conferring the great and the company of the possion of the conferring the property of the possion of the conferring the property of the possion of the property of property property of property of property of property of property o

When you feel ready, get in bed and express your most pressing health concern on a shoot of paper Yournghtwrise. How can I lose 50 pounds? or "What can I lo about my etimpes?" lacid dream. Once you've entered the state of alert relevation, focus in your phrase you have written down earlier. about your body

Once you are in the midst of a high your dream herapis; he right before visual, seek advice about your most pressing physical concerns Remember, your disam healer repro-

sents a symbolic bridge between your conscious and unconscious minds. He level about the steps you need to take to however the clean healer would be the more than a very specialized version of

tertal of the cream healer coarcine be-To experience the greatest bands from protriers. Your dream husbur might by his to offer you come "healing energy." Your healer might also after you medicine or you can envision yourself throwing in the choom bealer, cirricity insubating there-

mounting body of scientific evidence strongly suppress that such constructive sustances meets a powerful influence over your minute system by security you in mobiliona your inner determine first becauting your psychological response to disease Nowhere has this concept been reclamon encologist Paul Simonton and his wife Stephanie is psychoberagual Using merial imagery along with fradefect besit health. Patrents coming to their

twen the moonal average tern in this way, first first an appropriate symbol for the offending filess of disstance you might imagine the symptoms a weed in a nearby lot or park. Before

Then turn out the lights and use the yourself in a high look dream, seek out the went and agmetow dealtoy if. You blow it up with dynamite, or chop it to

percent with no remuney to develop For instance, envision

high lucid dream, you can generate magrey in which these seeds grow into Whether you make the mage of a donam heater or use streightforward guided imagery to boost your health, we

dream heater in the light of common sanso. Under no circumstance should you over use this exercise to noblace convenrespond poetwely to such treatment psychological defense against disease will probably provide you with insights.

TOWNED HIGHER CONSCIOUSNESS

magazine well of the dream Three is a moment upon build waking a starting shift in perspective, in that moment, you are use that the life you wore dream-was merely a product of your

DAYS NINE AND TEN

like the termination of an illustrin. As you must reduce by now, moreover, awakenas starting. That's because the con-In one of our all-time favorite dreams. robus consider with a sign that read, unc

of the opester and hunded his ticket to 1'm sure I can handle it " the dreamer this the roller conster ride commenced.



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Reagine hinning the personni powers to induce relatation, expolarate lumining obstitutes and change behaviored problems set the trends of a bullon The MC staffet you to 60 put their put set market, through the use of speakenment light read orough potentris the MC speakenment light read orough potentris the MC speakenment and a behaviore with or light put the speakenment or behaviore with or light put the to be the control of speaken to the put the control of the control of the control of the put the put the control of put the control of put the control of the control o

These forcetive, superfeoring stated, Exally stated coscoled by plaper to enablishe superdisconfinations.

The MCC component spoken state size of an internal computer with 30 procisioptims (11):15 and 1, 1, set of beophones and light producing.

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postage) for Catalog.

rs front car "Well," the operator asked him, "how

was t? Learn anything? "That was pretty incredible," the dreamer said suddenly aware that he was expensioning the affective reality in allowing the them.

who expensive the management of the property o

desir sometice changed the moment of awakening agood sometime in he mad so that he expressioned a series of experience of the change has a series have a series of the change of the change have been a series of the change of her change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the change of the change of the change of the the change of the the change of the the change of the the change of the chan

in his dream storing is deep and longhadden part of his inner selfleddeed, high flusted direamers who spend a great deal of time meetly manpuulating their diverse may reveal saly lose agris of their greater potential to consolicity explore the unconscious, thus getting is better great or what they want

On days me and leny out of embasis, won a puriny lowed higher consociones. You goal will be on explose the embaness hour poal will be on explose the embagas, the properties of the embasis of the embation of the embasis of the embasis of the embasismo of your designs of the embasis of your designs of the embasis of your designs embasis of the embassis of the e

You can start on day nine by choosing a 30-minute period during some quiet part of the day, spend the time considering the things that make you uniquely mascárá ánd aquamane contact lens-Selvation Army in 1966? Do you make lowa perchant for mayor raise on your salaixs, rower them now. When the period go about the rest of your day

Ast before you go to bed, write these words on a proce of paper. 'Let my disagra." Then turn off the light, error a state of alert relaxation, and include a high that you are dreaming pay particular at teritors to the way you leek toward the depart. Ask unweeld. Who do / seem to on this question. Instead of attempting to

range, dired or fly over it to see what less beyond. And if you pass a house by the tel her the details of your life as an entity Remember, dream control is best ap

proserved only se an aid to greater disvery advanced—way to accomplish this is not to deliberately change a perboular selves. In this way their symbolic mean

You might for example turn fowerd the image of Godzilla chasing you through Way that seems promorphie Man or what form that makes their meaning clear Does-Gostella revegno Toloro ham into an image of your mother kicking over your blocks in your room when you were three? dream symbols become increasingly self, your pib, and your family as well as death and realty and God As you reversite the dream terrain, re-

200 CRING

much bipader traity exists beyond the val of the cream. Do not be concerned particular high local dream, since the next sced intrackately upon swekering from such an experience

ness, repeal the question that you asked warred in the dream. Who do / seem to

be now? Remember the way you let about yourself in your most recent dream sorse of yourself in the moment. Look around at the everyday world and ask ify-in whatever easy you wish to define working stute, and as you cannot necrose

Continue asking vourself those guesa broader mostly beyond my everyday exploration you concluded the night before, focus especially on the precise moment of transition between steam and

You will bring this exercise to its con-

tunate you will atten a sense of transcendence and a deeper understanding corrader what the expension of transompenos mort include for you a renne

than your individual identity, a leeking of terminament that blurs the eletroperfeeling of profound meaningfulness in which you experience insights into the observely toward mundlens concerns

feelings in a deep and profound way Then, right before you go to sleep, draw to mend—on a sheet of paper. Finally tofas www.you.can.call.upon the westorn of

beckgrang from beyond the limits of your could only be sweet away CO Consumbly ID 1969 by Keeth Hasary Ph.D. and

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SPACE

direct route to space and would bring space travel up to the twenty-lest canof the drawing board would be 20 times.

the total expenditure (\$250 billion) for U.S. space programs over the last three decades Moreover is construction could take as long as 15 years—unless there is a breakthrough in turnuling technology (The Panama Canal by comparison took mile space train turnel would be the larg-New York is sharey markets balas only 450 miles and the superconducting super collider will be 53 miles 3"The space train struction affort ever undertaken by men."

operation and linenging. Once this engimous ristal investment was made leased vances as increased scientific research. asteroid mining, zero-g manufacturing and lunar and Martan colonization, he space train project would benefit more ment of superfast trains, cheep solar colls advances in the storage of electricity, and

sum point by the space tree project are faced if markind is to move into space On balance, it's very uniforly that the

our generation -- or the foreseeable future," says Devel Wolch, resident acholar Resignation Nethernal Commission on Science pie thought he was creay it turns out by Now is the time to consider such futurstig-if not farietghed-stess as the space train Although Da Vinois flowed

built maybe longer than I will five," somoment you wake up trite how you Marks Sofre like De Vinca probably world see any practical—or tinenosal—return from his factasy of fight But thely all note Told this thing for the fun of it." he says For some who ponder the future of specelumo. Markos wirms cal senso ol

> need to think about projects like the space toen' says Webb. 'We must develop new cheaper [per pound] ways to get to space or else were not going 'OO

THE LONE RANGER

EARTH

By Douglas Stan

complants mere rusences five Franco Taxas was harbering stanfed. Three hoods roughed up Tasaged soft-spoken fishin. He's referring

Tase took his pilo in 1969. Abruggo

after 20 years of solitary struppin Tasss

when he first vietnici il in 1957. A exit and brown bear-which else-

prefetricated concrete congos

When the powercrest breity

At the park he found things in worse shape than he had antiopaled Years



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BEST FRIENDS

Take these " said Brandenberg Mortgomery boised at him addly out his hand. They're yours, buddy

"I god take ivn ' Boardenbern held "I don't get i "Answer a question," said Brandenberg 'Do you regret anything you've

"No" sad Mortomery without a "I'm sick and fred of these goodsmir Take the chips. Add a fair finder's foo

to my severance check Tirs happy' He Montgomery looked like a man who held a winning lottery taket yet kept

magically changed. He slowly picked the cases from the other a hand Brandwiberg rodded "They to endneered perfectly to specis. Montgomery reverently put the chip cause down on the lab counter. He ex-

tended his other hand "Thurks, David briefly "Got to go now Caleb" He was the Jay scarbon. No real earths

strooty. The body parts were covered had a huge perss. He didn't recal that magnifuse of gental a being in the origin nal specs. Firesh building Rex in

peace" He dein? look back but knew his flumbrial. He pulled it out and glanged at it briefly below stilling the metal asteray beneath the button consti-

elevator car He linew I was impossible. The lighes on the tried mod dooware

LUCKY

So one day the cut starts coming arrupt the her Actually the beest it a local low-g breed with feline moves and looks like a furly twenty-ocurd, orangeback and gives it some retgut to lap in a takes it in and for a while it's the best

as a button Everyone pats t on the with it nees it to object halfs and grap at bits of string with its black, red imposd claws. It keeps out the low-girtice. Eats becomes a tough and wly william of a and the men take to the extinguishers and sode nozzles to shoo it away from

Strik is down on his luck doing odd ichs in a briefe place called NOLA a moon in the planet system Campbell with Ruan compounds and Kyoceta Ceramps that set up like dome glasssrayroad and ultrastone Even worse. he just lost the dancer he'd been oursu-

it's a bone-tred day late in a two-year writer cycle. Never enough solar so the tillity recorded air stories. He puts on the mask and goes but and finds a malodonous sploon where everyone stays covered and sall sucks up they Elysum through straws slipped under a corner of the mauthoriose. Seeled enwodomes maras-and they said living in space

arranges atmospheres of burned out This is a typical colony acrowing pumped up to one atmosphere with reone Everyone soriery and amorning badly after living in space for a couple wars. White this nasel numerice affected If were a case of taking the good with the had of dome life. But Sterk elevates heights. Nothing natural to smell arramore " held tell arrows who would beten. I now that we live our lives in a pan"

Of late. Strik has been on a full-time druck in the much town. To supplement saloon. One right he is there taking shift so finely be yells at them. 'Sore-ebrich-sum per fucked | and means it

loousness on the cat. After a his taken a couple of solid shots from the oxin-Strik grabs the arrend and takes it to the dish and it gurgles Big Hero, they all call him and have a lough

complaring to himself about the EVhydroporacs. He's waiting the boss

downs-and then smuch smiles and difference but Strik says. "No way You

And you cave it to their derived call

Sank yells back. "That's the last time

moves to clobber him for good, and as

ary and watches the crash. The sound

batroder and the cat Sink too it inthe other three diagons at the table. Cat

It's as if the car has decided to dust in his three acre, and pair of eights. So he carefully lets there push hen shakly to taking a broom and going for the cot The call makes a grapeful leep to the shell with the remarked meanum But

· rakes in a potibig enough to pay he nut the man is about to smesh its back

counter-when the bosst sinks claw cat is about to be sent halfway to oblivion with a broken reck, the barlander

Asympy now its other is I the think or Ether one of you take it or it's the big

cat the says for a laugh which it gets

 From time to time. If Stink looks at one of tries to figure his hole cards.

· he gets one of those cat hunches and it

seems to be nght. Cat, don't fail me new 9

waks down the street and stops more

"Promise?" he whispers "I do Cksy? Right there with all our and thes to figure his hole cards his gets one of those cat hundres and if be meen to il again Stork huges her signen. Then he looks at which is belong over the shoulders of

cally and beens him with a Lucky stare.

Thirty-two such circuless from Holmes functions. Suseen had removed some nem from their lunch bags and were their teacher paid no azerton. Eve were whispening about a sixth, who fish

let him bring the call back to the bir after That cat is getting underloot an auful lot Striker dearest, must you all play?" says Strik nervously going to

He pretty much follows the call

you?" he tells the cat one right over a meal of liver and priors. He scratches

"What's the point?" he says egan "Youre always right. Nithtrafty he obes

day. Running around like all get out, as

beloved dancer is welforig briskly back

on and off and going. This's wrong

iverps petting better Where the point of arguing with

Lucky across the room stops direct

"You can be euch a striker Striver."

neck But someday I'm shad, it might

they had trings about Lucky Promise "Akieht ploofs she says laughter

egitiving port game last right and ders approached one of these three it

exhibit Five sation in

with a tre owing

naled through 6

One nitries on veyed all the oth-

clowns It took a

donted reserved

aged the muscles on the gories slace a which he continued because mountain gorda's her is longer but I've

The test gonillas brought to this country

learned everything he could about his

along also "fric

And there were

brought along a eta diesses and Anne My Gor combin But Total

to gob.



8 years old, 101 proof, pure Kents

The boy ported over the stal "That portly the boy means

the first white man to see confes. Andees told the boy. He tracked them roczty Made him look brievs. Made his

tost of her bed sobberg ing affection to Anders now Somewhere Anders seed John Daniel And Total

Hoyt had seed. "What do you respect?" curriaged from Hazorfs by Maor A)

was expected to sell his own sixes of

Complete the Quest. Improve yourself. By yourself.







InnerOu

he cred when he slept alone was given a room next to the major's. Mrs. Cunwhich included frue wigotables and

When he became too big to keep perk she believed would be ideal. Trag-

he had some resoft into John Darwell neighbibly exchange one force for another for less toppy one John Daniel's expression was intelligent but Too subtle for soft graders. Avoies, interesting? the teacher said brightly

although Anders did not think he had teacher augusted and then, without pausing for thanks. We won't see the

planned to eat needs with his gorlas.

Mas Flict often came at lunchime

spare. She regarded Anders as a proect. No healthy young man gold be-Get him out. Give him a bit of maxicinal compressed to Man Ellot work a unbelow that the black cardle Mes Ellot showed the elegisters, but they weren't If he refused her offer, he would face her heard of explanable perky determine

Streets were in binom OO

resided instead and put the book back Mss Eliot shock har head "You always forget " she said. Her tone with retained but two She sported back past him brushing across the black orthat turned the gorilas of. They are funch on the grass outside the Hall of TWILIGHT

who had studied karate. The Kwon Do and subsudencied to also learn wisdo a decipine gute units the others. Alter refused to give way to the "sofler" ones

wearing down the attacker and taking him.

situation tan freough my mind time and anani White defending myself the porrect balancing movement collided with question mark a rickoulous and unworone time instead of rolling itwiny I had

After practioning in his bond dreams for a week for West German once again pe I didn't make any senous mistakes From then on, I learned quickly and a

Bypugh the eggs ordinary boundaries. A builty percentents the world fireuch the

mental magning First white awake, you

suby a contain move or style of day. Form immedial mode of period performance. When you become lead in a disease regardly you become lead in a disease regardly you will waiting paradice be easily of internal cell for performance. You are the outbesting terminal performance for law retires disease. Also be such early performance that the elements of performing the obtaining terminal period of the elements of performing the obtaining parallel period performance period performing parallel period personal period performance.

All concerns as the created state according to Theory—I by our op an according to Theory Thou are the size of the siz

of the ciream and allows you to carry over

Attempting certain movements while

mode along memorin of my ing mode. In mode along memorin of my ing mode along memorin of my ing middle desaming and integer secondary in the laboratory. Inside ingligation the secondary free with a light qualified less large once that a light qualified less large once that an individual of the laboratory in the labor

Solidaria del seguita fina en realización del proposición del

claim after allere serviced the memory. He comes at me I caused and excessed and periodic allere services are periodic sold straps should be serviced as the service services and the service services and the service services and the services. He was a larger on the ground and futures, the service are me and the services are services and the services and the services and services services and the services are services and services se

attractory flating. Although Tucker and Worsley both Although Tucker and Worsley both farms liney were discriming. Tucker was locally absorbed on this chairm world who local Worsley was not Also Worsley who is a sleep bit where it may be affort and utakington to present all and as other monaboth has disconcered. And discrime monaboth has disconcered and is sufficiently the more likely more weed the imagine property on and the side to report the more likely come will be side to report the more likely and the property of the more likely to the complete the composition of the come will be side to report the come.

dissamed action when awake Bang at one with the world around you whether in a dream or in what we perceive to be the risk world, is crucial for achieving excellence in sports. It is what

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Steele's exciting debut nove



so at one with the task, his lived world bosing champion who after training in his lupid dreams, managed to go "780" his

The sports equipment takes over the lymowing translockes they move the skis This absorption resembles that found among meditalors. Indeed, several relationship between meditation and saveled ners and standing broad arripers in shown to affect such physical factors as sparcher A. J. Delemen reports that ego did deams and sought by affletes

recolable, a combination that may on clearners score high on creativity measdream experiences increase in number clearness, opherency accuracy And Ser Aurobando stated "We con, with tranour own passage usually valled to our awareness and memory through many waking state. At a certain petch of this inner waken inces, this lond of siven a sleep of expenence, can replace the or

Constucty is of course at least contry is product of insight and the recognition of unexpected relatorships. But a 'sloop of external awareness that is our fundaemergene DO

INTERVIEW

To artised attention in our culture we louder brighter, fashier Butthose forganormekos to, so it's soil defecting. No matter how loud you make it, there'll always be a rock bend that a louder. Evenyou go deal. The main thing in science I you on ofter the qualitative avocats of good or not, but ever since age fourteen. Eve always had at some level of conscrupness the awareness that the air the universe is infinitely larger than our nitely more inferesting. The other prant is that there's no such thing as a fact dif-

Prose hypidoss doep deep inside them

Geyer Do idoes about the brain architecturn influence the way you doson com-

it is. Right now, we're awed at how much befor it works from anything we can build when there's some sort of modularity in Everything's connected, and you start teeding inputs to it and reward it somet good at recognizing faces. You need

musclely synfar between a face and a sign, you magate the grand dosayrer Minsky (WIT aretopi meliciance expart) for lateral whiletion Is form of feedback tems that referes sensory information()

Key Suppose you get one undifferen-

based mass noutal network to do both tane and word recognition. Now compage if with two amaliar nautal networks to be, compared with two smaller units? big Because a lot of the bisses in there are simply trying to keep the two sets of reformation again You're giving if one bunch of things that we happen to call fan Things suffer for a while it there are

people supported that until the Watsonpie used to talk about "protopizarin" and



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Orani So intelligence is really architec-Kay: The evidence is overwhelming and

as for as I'm concerned, conclusive There's nothing mystical about neurons So what we call mind or montality or intaligance is something that areas out of an architecture Gwy Walter, who did some of the early robot turtles twick in the Fillion professed the word mentally to many I agree with him because -ty words the velocity and montality intoly a procoss a shift of coordinate systems. Mod

Orser What does this process mean Kay: In order to s Lincton, we have

down to most of the marriation coming to us. We can't

pitication its like cost have a Fartyng guy helding a

extension of white

in readity, but wo're living in a play free pyligation. We live much a habitery.

tern tank will course up to start heliusinat-Ower What kinds of things has Tim Gal-

were the man who wrote The itsney Germa Key, Through a different route than Brunor. Tim carrie up with the multiple mencistly in adults, interfere with each other cute a bit Our sexual mentality that tree learning terms math or music A typical

loner Game strategy is to heighten multaneously, try to distract the analytic meetnicy. You give the analytic mortality.

he the hell in the center of your racket act, how much vibration you to feeling on moant Over the read twenty to thety seconds you'll start hiting the ball perrest of you is stroking the ball. This basic need and applied in different wave.

He starts them off at a high place of spectives. One way of learning to play How to excel af contact sports.

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torrus yeary fast as to have fifteen citiesent.

is an Esistem approach. To our quitare it is and Tsomme a a different ball every time. Crem! Why do you keep working with Key: Kats can always go outside and play ted so you get feedback on whether

something is retreating. At the school we by going to the computer and doing soutt adults do-and know it. The Indus-Ital Previutor has been a touch place for leas because, well, they can't melt down steel

Ottos: When you were growing up, what Kay Bohert Herriern sustained me Greev. The author of Stranger in a Strange

Key. That was his last good book. He wont a be batty in the Sixtes and Severnos I visited him in the early Soties, and we had a conversaon lasting thirteen hours. the sent. "Two got it treed so I can answer about ninety-live percent of my ques-

your role of paper and typed about eighty toot a day bronies he was

doing had a subtext about why the a way of referring

excepted normal reading I ever did chology was be cause Heintein stmult for speedyridde your propriet to see images. Held com a term called

scopes was a Samuel Renahaw One of Herium best stones was called "The The agreed was about how those wrigs tells to dozena of scientists who'll rememher this story....because he was done a work. The brand name for the wings was

about how back fly-by guess who? Robert Store CO

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Scale BP10

EARTH

mers had been scattered, and the park old tools. There were more warders and they were in a state of total despan Tassa says. Even their uniforms.

the United States, where national parks

When Abarron was established in 1922 almost all the land it ancomthe regions ancient towns. To create it

the founders set up an obscure web of left to park maragers was to stoke a comprosses with the locals who in

Tassa set to work refurbishing the tended a park manegement training mede the park in the American mode with signs bostered in rough-hown

At the same time he set about puffing building plans had to feel be approved

That's when the problems became

movine endry percent of my time in

Excess foured that Tass was number rapacious development provided conin Napies and Rome. They hired few

locals and dight nationing local busy recess. The wilegers got no profits but segge de Nuszio, a park ranger who

tarrieng. People could cultivate certain wild animals naded their crops the He gave concessions to local young people, who set up quide businesses setting up a working group within which Eighties the park was attracting about 1

million visitors per year and directly and By American standards it would be the hand in this part of taly and some

wresting control of the park. So it was in 1980 that the word named on Taxara management took place. A mossive se-Along with the chances come a sten-

der campaign of N/P-page ada at local rewassigners, large hundreds of in stances of alleged convision. The new

parks beodougeters. He toucht that and and in May 1988. Tarre was comby source Aboutto and by example haly a four other national parks Not the bold and over Recently Total

veluable velies within people give him. I parrot be hoppy

and hurted and polluted

Others with more perspective can beter summarge Task's accomplishright place at the night time : says Gu-

on a rrep. DO

GAMES

Last month I told how mag-

learning Water's secret, rebags to prevent infrarion." sad Lany Weght public





Weber successfully opened

ber's method but realized

bens Jud spray Freon

people enter. The tournal match advances to the next

sound are made at sandom. many matches will you have to schookie to determine

18565. The German modifiematcian was a child grod story elect femant He ole-

of diamonds are displayed the jokers, how many eyes

village in Now Guines the and drops off the clean

one line with your pen furr











No. then 1 ± 90 = 100 place 2 +98 - 200 plus 3 + 97 = 300, and so on until 50 in the middle and the

B Bider hilly oxin lans don't get-being diss-

in which left-handed play is ered too dangerous DO

GAMES

also offers a par of mormakes the everen compat

gapped in both hands

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INTELLISENCE he extra bulk resulted in a taller mouse

remail and armole using superior motors and making his wall and floor sensorshis mouses two amonnalive protuber wnces-as rehable as possible As the I FFS team worked on Other

asked on British television what the point was I said For the sport and they seem to be into technical contests. in Atlantic City and London in 1986 and in San Dego in July 1967 For several Asia, where it ordered the ninth All-Japan

The too MIT mouse game in a strong sign award, which, is that crowd, is more the promer maine decayrer in Japan latons, they look agant their man for each other I asked Otton if he was pager to sourn next year "Yesh, he seed "At lest I have sometrady I can talk to 'DO

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By Russell J

A Chrisshua will Iry evarything from putting its tall between its legs and shivoring to staring you down with large, oil-puddle eyes. But light back the tears. Remember, a chel's got to do you at a chel's got to do you.

y man both sawy virginous years the valore for this ge, Addoctment to say the lanlowance for a small child great him, hands to neep be gotherman present and of the pay, or yes a plant residence to dut not the uptited and soo wented many people from wented many people for all A SQUARE MEAL.

the highest importance own resid to; strongly. So sleazy put that's been well cared to put part hat's been well cared to subdescene lide fortisher for tran overcost and silk bow will a fair better dight they the was to better dight they the was to concern.

okto frase resouring eight to eyes, bushy half, good shops desposition, outday demestro loois wet note, and appeara s. Seek nut that unmatalaritio is bast finato look," within all or in and you can't go wrong. WhatriON DEVICES

atching for or feather to that benagerie in the Sky need not to key unphasent business if orce deed, it can be fun fair she who broad you sky with to Ostatince I have what you may wrathly , in your unphasent late, the input archives on the input of the even payable in Wheel of Mallottuna, the No.

upwiss intered Homing Pigeon 1 period for Scrantities, and the Acme only Small Rosent Exhaustor only Small Rosent Exhaustor Mgth.

 How many of us have withdered back from the fangeounds having speed that equipment of the great rightenst product tying to sen a prize by shooting a ricking line of little tin clucks with an air bende in it than a country read? All of us, houseper—and offel do we have to show to all 25 family posteds and a ray plaste bag containing a couple of startied-looking goldfain. Don't despan-Brach for a soucepan and consolo younged that you're about to sail the sector most experience soils.

1 large drivon 1 look

e "2 carros; sait and pepper to t Method Prepare

Method Progress lists and logalities with finely tricpood vegatables, place with lone per of boling, saferd with some per of boling, saferd with some per of boling, saferd with place to be supply to safery and per boling of boling safery and per safery safery and per safery safery and per safery safery

A very not deth from Mexico, land del song and dinninge showing life dogs with large hausic and men target species. On no accopant dieler the slobe William amena to appeal to your sentilivery, Holl thy exempting from placing has tall based in the legal and diverging uncompressibly to shomephory to stay you show with slangs, or publish eyes. If show the slangs or publish eyes to show the slangs, or publish eyes.

e boustry to altempting to saye you down with large, oir publish eyes. Be among Fight back its bears and semember, is chylle got to do what a chall a got to do. Ingredients convex cree! 1 Cohesthus

2 ans or not workly their 2 anions 1 period wider and on the seed works of cities

> Mighod Pastuge Christatus to bifesize churios by displang carefully into two reginal patient. Tose and by pati and try aidh displant until brown Add works, beans, and othi. Simmer for one hour and serve et a lenge earthernwork bowl a servery aidh of DELMANGE.

are leader bytelle southers and shift of better purpose of remarks, a wall that, seen not appear in the performance of the common of the common of common of the common of shift of the common of shift of the common of seathers are seathers are common of seathers are seathers seathers

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