



VOL. 8 NO. 12

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the spacecraft and the mission objective.



AMERICA'S ACHIEVEMENTS IN SPACE

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CONTRIBUTORS









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soaky it was a day—July 30 1996—Inbot orrectives 68 prophise in the humphies major to the moon would disoble into the humphies or moon to be a disoble into the entry-find controllers of the the entry-find controllers of the the entry-find controllers of the property of the controllers of C Calville 68 of an older the conceptual part to the steet of Using the statemed date as a focal point of the steet of the controllers of the contr

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maps and collision-availation gasterns. David Sacchem the forem White Hause budget director and deological leader of the consensative according resolution team the kean eye on the fact of government in the month's trickness (page 72) Peter Misson auditor of Maxes (Page 73) Peter Misson auditor of Vision and Peter Misson auditor Vision and Vision Unon may have all each arrenny years of years of years have a least a post which by the first the Lindon States has its own orbiting station according to write Analysis. Control for Lindon States and to own orbiting station according to write Analysis. Comel figure patient the year explains the sape that of the States of t

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LETTERS

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> Rich Fornalid Los Argeles

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A. J. Finetal solidor on Althoren's Gesame
[Blase Mazter: June 1990] seed vely
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Ry Me Down Under Tom Weller says it sales 38 minutes to turned through the contribute other sade that Ward. June 1995. The actual

for the round the. The period of oscillation of a small mass in a turnel frough the certifies of the earth is exactly the same as the obtaid period of a small mass in a small or but at the surface of this earth, which is 84 minutes.

Abo it stakes 42 minutes to beset through

a tunnel connecting any two points on the surface of the earth. A turnel between New York and Lee Angeles could be dug to a depth of "only. 300 miles, and i would still take 42 minutes to go between the East and West coests. It you really work to shooten this towel two, the should the tonel is more.

the East and Mexicoests. It you really want to shorten the travel are the shape of the tunnel is more important. By using a currer called a typocycloid the haw York-Los Angelos time can be decreased to just 28 minute.

> Department of Acronautical id Astronautical Engineering University of Binas Ultions T.

In the Eye of the Storm In War of Winds' (June 1986) the author John G. Fullar, gives the impression than BERFAD is the only early-warring system against turnations. But an excellent

tax boden in geration for mask fished in the property of the p

Fals a 15-minute warming Walk the national eyes of the weather service and a valuable link in the early woming chain. The more apolities in the hold, the greater the chambes of preventing coath. The treambes there all you need is an arrelated.

> Mike Vanhooser Lewisville, TXDO

stock year hopes about the future and to contribute to the And of informal distinguities provides thought and present distinguities breakthroughts. Please note that the persons expressed here are not recentanly those of the misquizon.

In March 1979 m

with ovilization. Along with a hisrarchi of Sirecting quises we were invalidate licensed the basic earrip of Mount Eventer. While we wisk camped at about 14 (200 liter) a nutrier carrying mail from Nathranachus auddeling jorned us by our lent and said your causing? Big tecchile People non your causing? Big tecchile People non saving Sig journ. That was the extent of the news Exercic causing the been an inform born be because the whole world.

A month later back in Kathenalindu I Isanned about the accodent at Three Mile Island I heard about the nuclear accident at Chemobyl in a more convertional way—on CSS radio in both instances I was half a world away but the news once in leading to the control of the control previous of transfer liter.

I visit withing a Book called We Almost Loot Debtow When he accorder occurred at Three Wile Falled I was a specificing on a nuclear accelerant and partial medicions in Medicipan in 1965—46th United out is and Chantel Medicion and Chantel Medicion I was a considerable of the Chantel Medicion of the Michigan meliticant lammed at lemostation. Falled in the Medicion and Chantel Medicion a

Titletere that the Aloma: Energy Commission (AEC) deliberately covered up the designer of nuclear power. The American public has not been provy to studies commissioned by the AEC. Through the Freedom of Informacin Act obtained more than 1,200 pages of million.

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the asks of nuclear power it is naive of as whether we here the United States of the Sover Union, to accept the promises of people molivated by profit or prestige the Nuclear Regulacy Commission the organization that replaced the AEC has

reluctantly admitted final in the next 20 years there is a 45 percent charlos of a nuclear accident with an accompanying melidown becoming in the country. They have also admitted the first Charloby leader was before designed than they have

ges into believed.

Smugness and self-datafaction can
a never pay off in the face of a floke and
the upmediatele loses such as makes power it must be harmossed by infallible people of it is to be harmossed of all So.

Wasten C

The nuclear accident at Chemobyl was one of the most Implationing swinds in women years. Along with the running successive statement was a few or successive other demanges. The accident is away group to not the world economy believes of closes of the problems of closes. Ornester the problems of the concumption and expensional or the concumption and expensional or the concumption and expensional or the concumption and expensional problems of the concumption and expensional expensional problems of the concumption and expensional expen

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Almost everyone from the yourgest student to the citizat citizan, has a botter appropriation of global ecology. We will learn from the taspedy and the world will be safer for it. Roger C. Tribauli.

Publisher Anthosi Intelligence Today Elorew W/CO

SHUTTLE HYBRID

SPACE

By Randall Black

on after the married space. shiffle was described. Space the sparot-transportation system—the main engines-could be combined to creets unmarried rockets. Known 48. be tall from all the shall shallly hardware

in STMs was motivated primarily by prepayl and solpood by a cargo cardille. one type of SDV, for example, can left of the menned orbiter A part NASA. vahicle making 30 brunches per year orbit at half the current cost

a state of limbo delaying important reviewing stated for learning in 1966 and throwing into disarray any payload plans for next year in the present vacuum the demand that NASA devokes greater urmarried launch capability has rekindled

interest in SDVs In 1984 a National Research Council possibility that what it fermed is "generic telam in the shuttle program could shut

Finally list spens, in light of the Chaharger deaster, the NRC's Space

Concess magrimended that the United which the provides our only access to space a not wee. The council acleans

the NASA mined apply take stops to son Titan boosters "The shuttle-derived vehicle most be very useful in the future." SDVs can be divided into two basic

types the in-line version in which the psylotid rests alon the external tank. and the "side mount" version, with the carno carrieter attached to the tank a rate (SSMEs) and a large external tank to oxygen. The most powerful SDV studied would have an expendable that-stack tinging Supplied with a smaller propolars improvement in payload capability from has handled lifty thousand to four hundred

Studie Are the party better than the whole?

or NASEs Marchell Space Flight Center in Hurtsville Nations Reusabitivis a common adventage of a throwaway therd-stage motor "The

major cord in launch systems turns out to Marshall 'Rocket engines today cost about thirty militan dollars apiece. Unlike recovered. After launch the engines. married shuttle Or the jethsored engine electrones pod could be fitted with nasachunes and a simple regitive sheld to pod feelf could be a wingless, menesyle controlled landing on a desert arising of SDVs to replace NASAs aging percent of the amount needed to develop Marchall deactor of the shuffe program cosis for shuttle hardwire because shuttle

> manufacturing techniques grows, the components would drop Even at present is considerably chasper to build. One feasibility study of SDVs done by the Martin Monetta company estimated that an unmarried cargo carrier could be built for about \$2 million, as compared with the returnative \$2.5 belief a shuttle costs As the shuttle program is rebuilt, the paralici dovelopment ol a reusable unmented partner designed to perform flictes for missions in which people are stally consided in space DO

Likewise buyers could take advantage of

a phenomenon called the learning

curve—as a contractor's experise in

THE ARTS

By Kevin McKinney

han I began wating the arcide livery exactly what I would say it that the wards operand in tappead in my mind in husesteen I began over and over agent, producing nothing but, pathetic drived. Than I decided to experiment with automatic wating. Resting my fangers on the computer.

Resting my Impass on the computer keyboard. Eleaded they eye and strained to decide they give and strained to decide they give to conscious thesis producilly entering an almost translele state. Obtaines to my surroundings I soon began as side widgels claimed and before long worse guilted from A their! has been though the membra based that had blocked cassivity. The Millier had been referred to.

Perhaps fortunately the Mass was the only one I contained if at all possibil in might have broken frought to the other world and garred some unversal knowldogs But this waste of these suppress profile optices present for the optimizary for more than 25 years. Montgomery. with incorporate beings through submissioning. She had desermated their weaches in nine books including Threshold to Zenorous A Black Slayed and Alere Armany Us. And in his riscert institution by Full Management, threshold of the New Agr. (Daudelaus, Doghthi) sine destine the second of the control of the

Submitted wilder, the clock which in the Section by the committed of the Section and save proprieted an illustry. Follow ing the Issubings of the artistic innovator unusualistic line Salbedor Chill produced between and mongraphs of the Section Centrude Stam as a student of psychological William Jorner, reposached and studied in the Section Section Section Section 1997.

shower in more recent years where like Franchic du Pressu Gay (Lowers and Suprats) and Sury Mickine Chains (Ludering to Sightha, page 56) have undertaken the exercise to deer the minds cobworbs and tee create an area in Suprats. I somewhere

close my eyes and let my per float across the page in a stream of association. Gray says. "It's a lend of teth in the void a search for byers of deeper close pline that might reference is flors everyday.

Characteristic possession of the control of the con

tion as part of her award winning novelle Unicom Taplestry.

But psychic writers like Push Montgomery sent reaching down into the oligital of their social to set the Muses. They containd they're contacting aminisciant ments. We are any when all the beautiful.

commond that it was anything more than you we substantially the specific sp

Even though the 'Guides' provide the makeral that will become a Managoriery book, prepaying the manuscript is no easy task. Farriery interhoots throw plants, such that anybody can write a book if they gut all down fell old and its all great to them. Set commercis. But because on from the Guides information is strugglish or it into a interhoot control.

struggle by the into a nertative cortest 1 dont just partit who a nertative cortest 1 dont just partit what they say."

Learning to constitute able with the spirit world. Mortigomery adds, was also a



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ALIEN LINK

LIFE By Erik Larson

e first time the group and together covered planet inhabited by 30fon wheles. There was only one sned in their scenario. The whales would have to be able to fix if they were ever to

Contact on annual conference that pathers science-fiction waters and anthropoligrets for three days of mental sergbios on how humans might handle a close. with such titles as "Science Fiction attend workshops on the techniques of

best ways to understand sometime in to ence in 1963 As a professor at Cabrillo College in

Actos, California, Funaro has frequently common. Prithropologata study alen them the says.

after anthropologist Gregory Baleson who died in 1960 During each Balcago gets splits into learns to create a planet

days of Contact and then, before the full conference audience acts out the first ercounter with an intelligent, alien orivature. creatures in strict apportance with the laws of physics and the constants that make cultures work. Larry Niven, a promment screnge-fiction writer who builds his

was Okay wherea the arcs? over what is and isn't possible are what

attact the witers and anthropologists We re all dealing with the theoretical side another," says writer Grea Bear. "The real with these people and breaking imagina-The Bateson projects point out the officulty of communicating with an alien

culture. Dunno one encounter a team communicated through dance. Under that to develop a dance-communication machine Corract participants also learn generaled liquid Man, meanwhile, had To some Contact performents, these

Baticson enectments mean a chance when the human race is out there playing with the bird boys 'DO



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SS-433, WHAT ARE YOU?

STARS

By Richard Wolkomir

hen they treat natural SS-433 open and commercial before the star first short going and commercial being short star programmer to ask an intendedial visition Smithalmously, it seemed to be witcomp away from us of men indeer speecial clearly as misposition (smithal SS-438 appeared to be a hundrum member of the Milley Way's 100.

Initially 354 433 appealed to be a hundrum member of the Milly Way a 100 below stee. Kedy file also a considered anything but hundrum and in the years since is discovery software to the been offering ever most consequent to been offering ever most consequent to the consequence of an address of patter file research the consequence of SSE 435 is also one of the ampliate. The first hint of the The first hint of they date is unequire quality.

come in 1978. Then scartistical Bittain's Royal Grosswich Coseniatry Inscent radio noise and Xinge in SS-430. Under the scartistic services in 1979, 198 noisy star powed protoundly strange. First there was 55-430's apectum. When a star's light cases through a prosi-

"spectrum" SS 433/s spectrum had strong emission lines, indicators of the demants had make up a star Such lines are supposed to be freed but SS 433 smoved dramatically from day t day. As aptronomic Gaorge W. Collins II of Otro State University puts it.

Could in 10 fate state melectory puts. Them LCLA attended the state filling of discovered that 55 + GSIs emission less serie shifting to from their commit position. Astronomers use such special with the ways state becomes board as species. When state move board is possed the blade of which state move leaved the blade of which state move leaved the blade of which state move leaved from us their special move branch the red see as 25-25 was as littling, chamileon Directory of its spectral lines was Diver special or spectral lines was Diver special or spectral lines was Diver special or spectral lines was Diver spectral or spectral special properties.

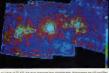
chameleon One group at its spectral into was bue shifted in spectral was not-shifted. But at first was virtually unshifted SS-433 seemed to be simulto neously coming going and distincting grill. Now autorization these related a nuigh contensions about SS-433. Virtually all agree that the coming and going consider afform from the differ is biblish. configuration. SS-433 is a breary or two part star replaces. The whole briany assembly spins like a water opmister it has two jets of gas spurfning brain it, and a say moment one of the pits points toward our solar system and the other wave, then if their two spins and the other wave, then if their the outerior, sciences with

No may sure what compresses the two pairs of the size According to the most oppairs theory, its hab is a huge, thus supergent size. Orbeing this is a fall discompassed of material that has been acused from the supergent by another masses object wither a black hold or a material than the compasses object wither a black hold or an enhanced gits collapses into an increase size (as if formed when an enhanced gits collapses into an increase.)

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CONTINULUM

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See Scriets
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to a ingri-energy count of exics that emits an unbos sibly load scheech. The effect at the laborate warrage of shelling a bottle of salad dressing. The oly leother forms militars of microscopic drophits that or capabilities the drop. The capabilities—one eightein the observator of a set blood.

cel—get logarimed bemeen the tissues being breated and the chig leach out vary slowly. The solentials successful feeled the capacities with a common anesthetic on lab rate and human volunmers. Kirkstrick elso uses:

the sark on himself. "My torsem, he reports, was numb for a week!

Several drug content because of secondary in characteristics which receively seconted a workwise pasent and the Defense Department has expressed interest in the capasies as a way of sambling wound pain without

The things we know best those we have not learned ——Luc de Chap

la ettitude is less istocratio then unibelief — Charles-Maurice di Talleyrand Plingon AUGHTER IORKSHOPS Because it all speatory mass

arger We don't krou Will Itmay/have som da with the release of later and phase in the brain. You same is net we in a the some some in order agety time. White, some and some some or with the some or wi passers academic comtion and the usual probof money and social risk shape—are baget to he stead by learning to talde less serously and to at themselvals enter inquently Zany garnes as often used in the Lasty Project classiscens to lish a mood of fun and in stem which helps to the

Although the permitter has yet to be ferry servicing pathon up to be ferry servicing pathon up to be ferry servicing pathon up to be ferry armogram; it is however-haven hood, worm it no dayle Seyor, the source could be hirmen.

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I seem that the gardian are brown to cost—or explain.



maismile of your face. Why not listush more and list listens and list listens. GORILLA THREAT

Not king ago Arroad mounting professione being valued at a refer of the year list you can be a refer of the year listens who could said their skulls as currentee. For an more has \$750 seach



A locating prohibits to home lossing that instead in facilities. She trained her conclusions in a service of workshops in a service of workshops and began in 1982. They also do the control of the otherwise, which is the control of the otherwise are workshops in 1982. They also do the control of the otherwise are workshops in 1982 of the minute of minute of the otherwise and the other control of the otherwise and the otherwise are of minute of the otherwise and the other control of the other contr

iter pation such from news that the cideaigonities are in danger g alladin an even nacious way by s who unwitingly if deadly ciseness year reports Jertey at the Internatival for the Conservation of lead William and Natural cos free gonities in a.

trantia arisis of humans transmitting their discesses to the gorfla population. "Sayer saye. To escuce tha risk his countered to buying human loose and observing the seating rules against close contact with gorflas." —Bill Lewien "Even if the sky field there are

CONTINUUM

EALING TEA

ears back Wither a Linversity of a showed that hus can raileve erro lety by actually every shree-cause a Noov a team of the from the Aces was actually severed.
The sometals conclude that the later glands secret chemicals into the blood severe first in sun have a hosting effect stoomers to body. Although they have yet to be solded an identified "excludity, con-

organs (to fer only lockeys). That would have been require that would have been require body parts and parting the body parts and parting there back who paterns bodies. According to Ernoy under According to Ernoy under Cataham, at his appreciant to ventracing lockeys has been used smoothly been seed smoothly and cataham comments, pointing out that Ernay has desired only his of the oppositions of only his of the oppositions.

Will other organs even be removed, mended and then put back into people? Graham bassess using the technique one day on laws. The laws has welldefined anterior amaziny and other smillarties to the fedney. There are technique; problems, but they could be problems, but they could be



that drying can heal physically too.
The Sewel leam from the institute of Research in Experimental Cardiology, included some light wounds in the skin of lab risk. They

Experimental Cardology, indicated cores light wounces in the skin of lab rats. They then introduced an intext in the sats syste to skin them crying. Amozengly the simple and of crying in deat seemed to greatly increase the speed and who they wound a heatein actins classes the time necessary to home south was necessary to home south was reduced by as much as 12 days. Even more starting.

How can a surgeon oper ate on a diseased organ if he can toach the larror or disregated area? Some suggosts of Emory University by a department of a sugery along with a handful of other doctors at soveral major medical centers have an arease? Literat fairflers are ly woo of the operations of "These is an addition," in "These is an addition, and the operation of the opera

ory University Hospital, a good team headed by from used transplantationing or the headed by the second of the second distribution of the second distribution of the second the second of the second the second of the of the se



sumounistie with all the advances in hareplantistics schaques were sooning herse days.—Sherry Baker

postry than a teme deline a rat —A E





Science-liction master Arthur C. Clarke presents his detailed vision of life beyond 2001

the After all the followig special section was he ation But a Tamil Tiger ib intervened; and rion, only a block or so ibors in Colombo, Sn Lunka, found himself ted up in the bloody details of an

ds his regrets. More cout the war lister. two stories you are about ead- Tech Trek and House Arrest —are eath gres expenses from Art mary an Orms book to be

Bersry tutures of our agthat's Arthur) and owe tem personnel, and writers of the

ssi) Then ask him to use this staff to paint a highly plied portrat of what tile will be like on July 20, 2019 years to the day after the Apolio 11 space

Working under Clarka's direction, Orrer gathered toory, housing, entertainment, transportation, pay chatry office technology, education, day weaponry, and sex. Taken together, their chap seet a comprehensive poture of life in 2015 "Tech Trek," by T. A. Ho rs, frants, scrargets, and other vehicles on

ing (or nding in) come 2019. 'House Arrest,' by Eri-Larson, is based on sober research into what housing in the twenty-first century will be like—but with a twist The cheater is told in the farm of a boarre short story

An erone belot to Clarke's newest book is the wholly conventional messes used to convey the various chapter menuscripts between Occo's New York offices and

bat Clarke's most eld it was the fe

one thing there was Sr To achieve this, they we formed the Terril Tigors, a col-

please army in a discuplier cavil wor that has already nce-prosperous retion to a virtual star It also brought to a standard our counter service, which reported leaf half that all of its wars at the Colombo siralety, by a counter with a longer fleet of fraction It was during this period that we recoved a let

Clarke with his notes on a chapter dow sted to futurists weaponry. "Before commenting on the chapter on was he wrote, "I have to declare my interest -or lock of a

The whole subject disgusts me
As we go to press with this magazine. Clarks is never
theless coping with warrann in Sn Lunius, the name of which means "the assplandent land" But last O his final thought on the prospect of war in 2019 was this In the long run—ro, the very short run—we have to become intelligent manimals, not turn ourselves back into annoted dinoscurs."—Dick Tones.

PHOTOGRAPH BY WILLIAM COUPON

It knows when you've been sleeping. It knows when you're awake. It knows if you've been bad or good. It knows

HOUSE ARREST



going to believe the 1 don't believe the 1 Henter accession passed is obey of the smed wersert over to Cheller Boscurhary. Bescharry unfolded the document and well of through Lisekon welleting also plantner's pale blue byte went to the bottom; then book to the top them back down again. Been-

has been used to the been again Beenchiera's eyes were not most eyes. Beaucharp—he procured if Beechum but Jackson always used the French pronunciation—showed the yellowed teeth at one come of the mouth.

Tackenn This had better be a joke."

No joke Charte: he answered "flust got it from the DA Schwarz. He wants us to pick up Frank in what color and go do it now."

PAINTINGS BY EVELYN TAYLOR



No Wore going to tell firm now 'Not we You I mean it Jackson Some to make a tool of yourself you go get Frank

sucker spixet. "Hey," he said. Capterntold Resuchanto handed the paper to Jack

senior computer-frilled investigator from Beauchamo threw a stack of index cards

No buildn't it's the only way if could have D'Arigelo folcled the paper and fucleed

of the suspender siraps. He pulled on his to see you guy handle fire one. He

nghts Beauchemp picked the marked sto. newest homes in northern Baltimana and

laminated gard from his water stepped By 1990 computers had grown sentent machines into their houses and obes until much for Samuel J. Palmerston. Students

now oil embargoes, OPEC the Organizapooling a conventional home had stead by Motorola researchers for example, testino

MURDER BY HOUSE: LAW IN 2019

WILLIAM M. KUNSTLER











MEMO PROMITHE COSMOS TRAVEL ASSINCY TO

July 20 Singapore to Los Angeles, USA port at 10 30 A M

Los Angeles to Las Vegas California Rental Car. A Jeeng Autora (standard

July 3D. Las Vegas to Los Angeles Inter

Los Angeles to Singapore Pan Am Flight

Departs Los Angeles Intercontinental In hight witness Channel 1-years out-

What will it be the to travel around in

solete as the cars and planes from the Di senhower years. The Pontag Figra and the As for modern up-to-clate vehicles, we can expect sweeping changes I gave a speech in 1965 about what the car would be like in twenty years used

sand pounds lighter it will carry a sopinsengine and it won't have a spare tre ! mased on the last one but I was right about

lappage's trends-lighter weight in-

transe-give us a pretty good idea of what

models. Those baspers would give even Destination Las Vegas Novada, USA 2019's low low prior of \$70,000, with revo. credit terms is new car will offer a lot Steek acrodynamic styling may well

Sheet-matel bodies will go the way of forced with fibers of glass or graphite

aerodynamic styling may well make the car as streamlined as a fighter olane. The

overall shape will be nearly as smooth and self-contained as an egg ?

weight up to 60 percent less than steel ten pleates will atmost a dent and minoperate under micropropessor coreral The in effect making available an infinite num

onboard nevigation will make it impossible to pet lost. The par will be able to locate its cars artificial intelligence will then direct day a American Automobile Association

offers trip planning services chanic sat what's wrong. When major sert, occur the car will transmit a help sacnal to a "quarden" satelite

collision avoidance, engising the driver to Buch autos will be fast and chesp-

misease may top 100 miles per callon. Even near Biomon, carrying nearly 200 passenpers at mose than 200 miles per hour. The

ment has reached higher speeds. In 1979 it set a second of 321 miles per hour on a The German design Transmost-06 is a version of the Disneyland monoral its rail

around the T Electromagnets in these side magnets have control systems to vary their track in turn, sets up a magnetic wave that peopels the train forward five a reurlocand

Such a monoral will soon be built in the United Street The Department of Transportation has approved the Transrapid for a consense \$400 commences a day tok efficiency would be greater than that of an ampliane. True the Transmipid's round-mp. downtown L.A. to The Strp. It will be a effects almost repolices not

to be challenged by the faster Japanese track, the magnets rapel. The track resembles a U-shaped trough the train nection cook within its curve inding rewrite inches. known as superconducting magnets

- 460°F Amd such frigid conditions the metal loses its electrical resistance. Allow of guerns will then deculate without loss producing a magneto teld that can per set indefinitely. A magkey train employing

The early decades of the next century will certainly see mealing take off. They will be built down the center mechans of intenstate highways along such heavily Inswebst routes as San Daton-Los Angel Washington. They will also link airports to Dalas-Fort Worth For instance a pro posed mega-etport called Los Angeles

several hundred miles inevitably their low

helium to keeze cols of mobium-trianium it stands to be challenged by magnetohyble fast understa propular or by water etc. channel resembling a long halfway. At its

are negative and positive electrodes, with a powerful electric ourrent passing across electricity and can be made much more

as consum. Under the action of the electric rangement offers high speed and maneu versibility along with exceptional quetress confed with a struckth, rubbery skin Naval

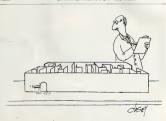
layer the thin layer of water that ol nos to

hese bubbles have reduced drag by more

boundary layer. The water then flows past experts will be drawing on many of the fibers embedded in apoly plastic, for in-

The plastic plane will become common Such developments are currently openvation in archalt design, featuring new en-





see a poli, abourd. The paires openies conservation of they were boses. They do not spone hours after and warfer, themse hay do up to the paire, doctorage a flow people and also do a proper and a people and also do a proper and people and also do a proper to the flower people and people and also do a proper to the people and people people

Interest to the air Another non future in the total of long to the fat to the first had price you fail had to the first had price you find to do the first had to the first had

temperatures the heating of high-speed fight hus limits it to two the speed of sound. And no Olympus jet engines are notinous fuel higgs. Tomprow's Placific Supersonic Trans

meis per hour. This high speed will allow the PST to do these times the work of a smiler-seed jumbo jetandbum only lieute at much tast its but ellowing will be those times that of the Concorde it will fly 6,000 meis at a select his blang lour hours for the Tokyo-Sain Francisco au.

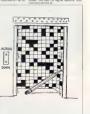
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suided some of those techniques make may be purposed to the control of the suided to the suid

ligations draing. Mounted beneath the wing will be the thost, black of princips of the angines, two for the standard version three for the doubter livestige model. "He such among that may fall short of being the most advanced in service. Aust as the Concorde prospers in an vice of cateller flights to Europe so there will be travialed in the whom event Mexico. Su these times death of the control of the contro

the social stated in any layers of a size of each control processes in an era of each rate flights to Eluxipe so these will be transit flights to Eluxipe so these will be transit from the speed of security at the service free speed of security at the service flowers of the service of security at the service flowers and the service of security at the service security at the security at the service security at the service security at the security at th

speed of a spinite and wall nech any detration within two hours. How engines, the key to such costs, are free being vigorously stacked. These engines are variants of the ramps, the simplest type of yet origine. A many is letter more thans calentally shaped states or tool with fuel reposition. At high speed if releaon the shew toround its storward motion to stamp or comprises the originary as viso is combusion of parties.





FICTION

Can music born of the human experience touch the souls of alien beings?

LISTENING TO BRAHMS

BY SUZY MCKEE CHARNAS

Entry 1 They had already woken up Chandler and Ross They did me fried was supposed to be up first so I could check the data on the rest of our crew and winkled skin covered with bmy scales a lot like their hind legs. Their skins are gravan or greensh or even blush

faces-no her-with features that soom

polished amough The first ones I met had

and watered-sik sashes with models I won bns, rigust of benead dimun oce saw

They speak English voices and talk very softly sself up, which is why we freezer when they found us

what the others think until to stalowery art riguority protect te 1 Earth such as it is I know what the ligards say is true but I don't think I really believe it. I think mostly that I'm dead or having a terrible dream

Entry 2 Steinbrunner killed himself I don't tent like it. They all switched to . Thing like that the krands say) Sue Anne. sumosuits and then their lizard suits and I can hear them gooding whenever she is

The lead loard's name is Captain Midwaiting for the loke to be over

PAINTINGS BY ARMODIO

right. He says he knows it's not the most appropriate name for a apapelliotal comizarda here been felding our vanous Earth They are given native names but if they instead. Those on Captain Michight's ship.

I look out the verypine at what's left of

trying to show me on the star charts. Edon't look I don't care I came up here to do studies on crypoeres nutritor in space not

do Barth is a moon with a moon now. My nection with anything human. There is nothing to noursin. There's set the article

I took the data the machines recorded to smeeting metal. The assured every body that I won't break out like that acren toolish afterward. I'm not sure they believe

the Kurston They say they went to stay here in our vessel and in page something haplooking for whetever's left, which is prob-Capter Midnight says they can no a beacon system on our craft to attract any

ards are not going to let Morns and Mivers They say the Konditar do that they didn't

56 OMN

here but the seven of us. Tough on the Konday They expected to lind a whole I have dreams so temble there are no

Entry 4. There's nothing for us to do on the Kondran ship, which is soft and leathyou unside its allow shell. I have long talks sixth Water Drake, who is head of mission Water Drake is female | #ank, Water Duck

crazy? It took me a while to foure out what was IT's Sir Walter Rakeigh or Sir Francis Drake

 I look out the viewplate at what's left of the earth

We con't mise anything from down there. I

can't raise anything ywde me either

Thave chosen to commemorate two great Laxe! 'And they were both makes'

some reason. There's an excuse in the case

All the lizands speak English and at least one other Earth Janouage Walter Drake The whole speaks was in effect beamning to close down. When our scrain were tirst picked up, something else began to cinated by frash culture. The older Kondrai, who had gone back

to living like their ancestors in the desert had to walk away when Walter Drake

want to start again. It makes my eyes hurt. broadcasts. They collect our agnide, every tas. My mother played the plano. She

Op 45 Tchskovsky Venstore on a Rophonic Dances Op. 45, Mozart Clarinot Quinted in A mosci. KS81. Sebelus, Symgnory No. 2 in D. Oo. 43. Sibelus, Sym-

Entry 6: Character is alive. Boss is alive. doesn't count I mean I can't count it. Up To mean anything. Why are we alwe?

Engry & Worke up from a dresse wondering if maybe we did die in our ship and my

Suppose I died, suppose we all actually wouldn't make any difference. Earth a people are all dead and someplace else or no-Afterward I gan I become these cornerstress but we are done. We are separate I don't know. I'm just a nutreon expert. Apparently on Kondra now they are making of Wing them ready-made (Water Drake ess a poncer in this, I might point out)

> Druckover and Mahler sumphyrams, river Erev 9. Beamsh come and had a talk with me. She looked herce.

Leten Flyrn "she said, "wife not comp to give up Give up what?" I said

har teeth. The human race isn't encloci as













know you are not in a typical

At the Cite des Soimoes

new nebonel science mu-

stend its anx sunkt interor

pege) terratizes its vetors with displays like an inter-

teaching machines





amouth-skinned geodesic ring it sts in a complex krown as La Wissie (The Class Olderburg ball bearsmall town?) which contains no flaroe photo, previous ence and misso-study conprevious page), and the ture of a DNA molecular top Wietle the museum

wites its welfars to expicite four ceneral theme areas. In ture poler system form by teligral system in The Adof the standard. Your Friend the Electron' exhibits, musty like the Green Bridge, a covless plants grow suspended

active model of our solar system (above nght) and taking robots (opposite where the electronic launa Exected on the 135-acre Plaxibles softere that is able. tie market-situated on the northweatern border of Paris.





left), a glass globe filled with ners win the ninhe and the whisper is magnified on the formeaon the complex has cated planetariums (opposite page, too left) in the (tirge photo left) originally designed to train astroon its if can re-create with breadmaking realism a sky studded with up to 10,000 stars And for another exio soreen where 70mm film and six-track stereo deliver Dream is Alive (lop right) cal arred town and a compleof technology the Effet Tower -- Douglas Colleges



Space stations, Mars missions—all part of the Soviets' master plan

LIFE IN ORBIT

BY ANDREW CHAIRIN

raveling from the center-of Moscow along a broad centrally Prospect, you will evertually catch sight of a glearing, 17-story pillar it stands in dramatic contract to me gray, posteriored variation Pad Square and the multicolored domos of nearby St. Basil's Cathedral At the top of this prifer is an Art Deco status of Yun Gagarin, his muscle-bound, stanifess-sised arms held out

Twenty-five years ago Gagann earned his place in history by making a smale orbit of the earth in a primitive. in times past, but they were more sonsteart. Some 220 miles over the isgo of the memoral flool listine continuous appeared on blevious not not de-mais appeared in blevious not not become the convexery. They too had become proof instant years for the conveyed a 354-in space station called MF (see the large spacecial deservior of not), mesmay peace in if failism MF is anothe 55-see first the large manner manner objects the large manner manner to the large and the News have the large and programs been so depaid MR in MSR piece.

US space station at least eight years away, American space planners view

PAINTING 6Y ANDREI SOKOLOV the Soviets' vigorous apace activities with uncerstandable envy and hustrinon head of the University of Arizona's Lunar

of an extraordinary era of space exploracoamonauts have been pushing back the

space andurance barrier, spending months at a tirre in Earth orbs. Most of that time. tions, the first of which was launched in 1971. One has only to look made the cramped, cluttered interior of a Salvut to understand that these space marefrons the size of a small house trailer is an awe normosterit, clearliness was a chora, and nearly eight consecutive months-238

clave-aboard Salver 7 in 1984 Mir is not as soohest coincil as the modutir apage station now on NASAs drawing boards. It's basically a reworked slightly American observer puts it. It's already up Mr was designed with the lessons of

the old stations, and the tangle of wees and decorating has been hidden befand yellow and green pastel parking. The sterior marathon crows said watching the earth dows for pandramic sight-seeing. Even member has a statercom, complete with window bunk table and chair

scientific and engineering laboratory. One station has a lotal of ass decking ports. Four st its nose are set to receive additional The first module, which will ferry a bulliary

be followed by other modules for meteo-The Soviets will continue their long will host a Synan cosmonaut sometime next

Last spring the Sowets tested the docking families of the new space staton by flying from Mir to the older Selyut 7 space sayaon. White in Salvus 7 they took signated spacewalks to test the feasibility of constructing objects in space

appear to share this philosophy. They rely transports that made their debut in 1966 Though they are more than willing to pubto get a livenched. As one Prench according

mission planned for 1966. Salvut veteran Jean-Loup Christen will most likely take a spacewalk That same meson will also in-

Burger classifier he acided has not pased As with their merined program the Sowats unmanned efforts have been an axgross in persistence. Their space probes to excions recipons in the solar system, such

Last spring just a low weeks before the acroversary of the Gapton fight I Norg the rare opporturity to witness the latest coup in unmarried Stoyet space explorahad been grused to the institute for Space. oow Watching Soviet scientists in action

and talong to summ of the etternational corps of perferents. I learned about the Housed in a drab. six-story cament

building on the outsiens of the capital city. long correlate. But this week was an undozen nations gathered in IKI's huge conference corm to participate in humar kind a

The institute's conference room was period with the American press, screntists and visting dignitaries in a small adjacent toleveson studio Carl Sagan prepared to op on ABC's Nottling when the craft closed to within 5,500 miles of the comet. "Space technology is instruscratly a risky business" noted corretary astrono



Tribur do you know you don't like a zookeapar until you've tasted one?"

CIMY



Put your typewriter to post and your mend at ease. Become now there's advinced technology that speaks your language Videownter by Magnerox, Pintilly, a word procusor for the

All you do is turn it on, follow th. sample instructions on

mer John Brandt of Goddend Spans Fhorst serves of expense politics. In 1981, just four to brave a storm of dust grains whizzing

for with the nucleus—the television more At the critical moment however the thing but blank they displayed the first

about the difficulties of getting space misblasting in Halley's atmosphere Journalunheard of at the Jet Propulsion Lab

to Jupper Seturn and Uranus attended

Change your mind is crashy as your margins. By the metepush of a button. Cantag add, move or ramove thoughts the same way From the elegent on I angon the buffe in dictionary. crating instruments for Sover apacegraft of Arizona's Levy describes a typical ool laboration with the Soviets. You deliver on

the usual districtions of white out, cross outs and coumpled paper. The Visionwriter word processor less was make all your

Claylosmos a cheen agency meant to so

tern In 1988 the Soviets will christen the After a 200-day icurries the apagecraft

for buried see deposts, and study the tered moon and blast the surface with a



And do it all before one word him the poper. You only pront when you're roady. For a perfect copy every time. (When's the last time, your repewings this all this fee you'll. The Visionemer word processor also rengentees everything, you write. Unless of course, you to it in not to. Wheth more it comes as one your words a life outsigned unit

Including a keyboard, a screen, a print, r and a memory disk.

At this point, you need h, wondering what to do with your typewriter. We can only suggest you do the cruitized thing

leser, veponang lists of the surface an onboard mass spectrometer an the vepor's composition. The Soviets also want to drop a

The Soviets also want to stop a small made grafty from each profite onto Principal made grafty from the charge and the charge are to the charge and the state of the charge and the surface composition measure and the surface an

The selecteds are also trapped of a port of the Soven-Flench mission to the asternation that like between More and Jupped in the like between More and Jupped in the machanish selected with the selected highest advantaged with order of the selected highest advantaged with order of the selected highest advantaged with the selected between the selected highest acceptance of the selected highest acceptance of the selected highest acceptance and the selected produce colored provided by the selected of the selected colored highest acceptance and the selected colored acceptance and the selected of the selected colored acceptance and the selected highest acceptance and the selected of the selected colored acceptance and the selected acceptance acceptance and the selected acceptance and the selected acceptance acceptance and the selected acceptance acceptance and the selected acceptance acceptance acceptance acceptance and the selected acceptance a

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In a Bowest Weet blankser head of the Verindowsky strouble for Decemberate when states and with parameter many control of the strong control of the strong st

mission. This is weath of increasy. Berealth as you will be also of onespectation on the support of the second sec

of the first places to start is with a discusshared by states powers in both nations a manned mission to Mars Communication and mission to Mars Communication and the start of the start of the start of Mars Proyege in this Salvyst statemen with in seconspace expect Cecifity Perty of they featured in Space endured to the start of the start of the start of the start of the leaf it is immored that the Source Solvin Start Seconspace received the start of the start start of the Space endured received sometimes the year. Solving when the preleminary steps for

Because over the pretensiony stops to a source allow many would be interest and an extract between sowed the interest mouth to be instructed by any on material politication and the property of the source and politication and politications are property to the source and politication and the source and an application and the source and an application and the source and application and the source and allowed and application and the source and allowed and application and applic

Union head into an era of more exciso expansive space missions, we may had pursue this solution, a solution that lows both soles to win DO



Reagan's former bay-Scrooge makes his predictions for America's financial future and offers the best bets for tomorrow's career chaces: the high-technology areas, ranging

INTERVIEW

DAND

10000 01 flak heets anything wong with flaming the properties of t

sid Reages for the upcoming IV detailed with Jermy Convi-Sion with Reages collectable, in the When House Societies Boon with Reages collectable, and When House Societies Introduced and the size of the societies of the races against and was subdemanded, dubbled detailed of the size of the size of the size of the size of the Indian Societies I seek was severer to believe the Indian Societies of both size of the Indian Societies of the Indian Indian Societies of both size cities and increased military exportal, and As admitted fill the Sizege revolution the would miss in torsical As admitted fill the Sizege revolution the would miss on torsical

Assistantial Plasgan revolution that would make a forcital assistant on the ob-called Announce walling state. Societine had a less fram-pumple assignment. Congressional resistance to Social Security outs was one thing, but it become clear that the President Inmael had doubts. Resignar was an incompute optimist los compressionals—or los "politics"—to approve the mid los compressionals—or los "politics"—to approve the congressionals—or los "politics" and the congressionals—or los "politics" and the congressionals—or los "politics" and "pol

PHOTOGRAPH BY WILLIAM COUPON

and Michael Deever to the First Lindy, were gans predecessors combined in the end politics had trumphed overideology, leavarrogent the administration's promises lif-

Rased on a Michigan farm Blockman, having resigned his Cabinel post in Au oust 1985, as now a director at the Well OMB appointment, he represented southern Michigan in the U.S. House of Regre using from Michigan State University and activism during the Sixtes to the Iscal conservation underlying his recent best

and empresoner in Westwooden Wister Peter Manso joined the admiristrafform former wunderland to talk about and where we of may be headed. Mariou owark Beverly Hills Hotel obviously tred after a full day of interviews and TV shows. Nonetheless, he was willing to engage, eq stabbing the administration in the back.

Ones. The base facts of your teconspliy four joining the Reagen Cabinet as a key player A wooden despription, granted but

Stockmen Yes as the oldest child I was probatily under the prestory pressure to ple-are responsible for their own tale. What body was insted, everybody went and picked his crops. If someone had a tire. until I got to Harvard that I realized how unique this way. I had done a list of toyle tradecrafishe background from which I

world travel. The only way I could hold my own was intellectually I wasn't content with Deers' When you first went to Michigan State what dut you major in?

a acientific farmer and go back whence I come. That lasted only a year and a helf to botany class. I wanted to study history. Own In your book you repeatedly use the ferm rabbs in discussing mentors such as Where do you is Michestern farm boy-Stockmen [smiling] Get the term /abb/? culture. that ethic I was exposed to very intellectual Jews; and since I had now made learning thinking primary values of

€Renouna reflects the American mind. which itself is a little schizoid.

That's why he's so successful. He plays to the ambivalence of the public 9

light on mysteries, while mentor has a more pedietner conntation in wift sometody

became. What are the truths that let up a how to proceed along the botter path? Campus uphenival the sadicalization of the Seties Suckienly the old inherited Chrisworktwew fallen apart. I had to construct a were orrepresent. Out of that came what id call a kind of pusse Marxet outook the aniwar movement? Did you get an

rested or burn your draft card?

Slockman. No built went to all the meet formation about why the Vietnern War was acket in order to express my state of reintensi arguments with my lather even my grandlather we didn't stop speaking to

By my serior year the activists had even wolkings in some cases. The thing that bags, the whole thing. I saw people trying position for new areasons. I ween't going to

For me Nedsuty provided a bridge back mous aphonem is that man's capacity for

you went to Harvard Darinty School to Stockman Well it's basically recurred of through at the time I had the refried rationaligation that I was indeed interested in but as my great model. I told myself that I too might become a creat collect or

Ornal Neither did the potrosm you brought self-as opposed to Ed Meese. Michael but I was the person who pulled it all togetter. The gay who pleasted the relation that international and depend on the details of the blaggers! If thought that it has implemented they also in the whole scalar in the second of the second property of the second propert

Own: Majrit the Reagan revolution have taken a different form it someone eiter had been heading the OMS? Sjodenant Vas There was great skeptielam about supply-ade economic among tark-ansi-filip polipicam inhoth pathes. My

contribution was that through frometic eftors for about torly days, I pulled bogother enough detail and pur innough plausibility into this hage formework of policy change that when lisuached it became a contender is senous alternative.

Gam's No postupos when the otherweek team remotion and this household are not to the control of the control of

showing road cools of social actions was shouldy supported become in a detail mist, such because the experience and setail mist. Others, So, the never actually need your biseport of all reagantomics of Standama's Lord in frow their over tread the whole white peoper He aut through several cut and page 1999. The social properties and of those cuts stem by item is held reagal at time seprey has a how were longing to selecte local stamps, from their services of a time seprey loss when we long selectes local stamps, the service was doing in the public exployment program.

aid to local education or reforming low-income benets programs, I don't think he had much comprehension about those line-isem parts."

or cuts

Consistency Consisten

use seminaria distrinaci singare alboritoti giore un common and no un ordi octobro biologie al common and no un ordi octobro biologie al contro contro di proporti di proporti di contro contro contro di proporti di contro contro contro di proporti di contro contro contro di proporti proporti di proporti di proporti di proporti di proporti di proporti proport

> f Aragan the chief exacutive American government

Is at there
 at the control dats of this
 mass of numbers
 measuring what the federal

government really is And I concluded that what comes out of

the White House is all hot av.

In the second restance he has provid to vary pragmatic. Constitutiones are set there due and finely demonstrate he ling to call it a day. Third a what he did on all 50 cutsy on farm programs even of to education flarmatible we want may be about that advanted depart and manafer it was certail government crusting had into the obserteem Well, years later the Department of Educa-

in history and the opposition of the opposition opp

to guestion. That's where I make left cours but because I started as an ideologier I had great week of how you gowen seeing and the water of their great week of their great seeing of the markets versus government regulation. The duringers of their seeing but the duringers of their seeing their seeing of their seeing their seeing

ous intellectual content to Reeganism only a very popular land of rhelanc—and by content I mean ideas, a sone of roety and facts Ottos: Hise Reegan been many or less ne-

and facts
Ower Hise Reagain been more or less remes than his preciscosors—Carter Ford Neon Johnson or JFN? Stockman The gap between Reagains policy postero and his public thetoric is

administration were eight appearable. It was the many term provide in which are provided in the control of the many term provided in all the many term of the many terms of the m

Green Exemption there as Resid of MMB with daily size at these is interned but the size of the size

changed he mind But with Reagan nature never got discussed Proprie will cleargree waterly with his policies or palers. This is not threat and make their post in a very low large as cettain modals operated in a certain trave a cettain modals operated in the prefetal controlled and on your lower section controlled and on your lower section controlled and on your section controlled and prefetal controlled and the prefetal controlled and Chark. Was 6 ever possible for you to meet in prefetal exit. The plagation or whoch he sur-

in prince with religion to well in some numbed by Mease Deriver (Jennet) Baher and the rest of them? Studenay for his ways surfounded. One on one was against the rules. I titled once or twos-but bescule! I was in the gladkings or Deavar and Baher were, and they weren't comp to let arwitody side door

being raised by remnating farm subs or dramatically scaling back federal Thereis is own say mallars, nobody had access to Rea-

Stockman: Yes by recognizing that weld

gribbousness an anogenite not only on

Stockman Yes I should have taken the heading of the cliff Build was para; a ey that sort of caution light, the pounding

thing may be a fissoo. Gests' And remutaneously yours on a he

wasting for me to lift in the details, and what pame up with was supposed to look like Onrs: Recently you bought a house in want to look it in 'Why?

dence a safety net correct? between the way you marage your per-

dard nght Stockman: Wolf, if you give me some time

Orsel Clear then backno back what would

Stockman, I'd say it was pretty looksh to deliars in additional cuts out of middle that had built up own thirty years: and

> 6) was on the cover of Newsweek Twes the auv who

made it all happen! Baker, Maesa Doayar and the rest of them were

wanting for me to fill in the details.

Green So you're blaming the public as well

very crecible anymore

representation. We re here to gut the size of the

Stockmen, it storted when I was at the peak the power of the media being a Washing

Owers How traumatored were you by the

Green Jim Boker the President's chief of man I want to see your ass draceing on

Nightmares weave the tapestry of horror for artist H. R. Giger's







trunken heads hung like candled. No one captures those shadows better Spok at death swrling fornacions art whose work has been soon in Alien of sen and scales that spit like pode to Dune and Polergest if (for which the singo we are structows of things that are and reised in a small Swiss fown Giger

BY ROBERT MASELLO



production for the girm and lettle schoolmakes into packwysms of the occult his peaked his bedroom. Issue: Absolut dhe same thats, depicted anestig ones. It sum's his mostle, my lether isolanid and and the navior his mostle, my lether isolanid above his brid or pharmass; house that immediately one proposed a ghost hair fall for his peaked and the production of the most man time of the most man time to be observed the most man time. But not his less contact with shalls that not his less.















unconsisted into the dawlight. Some makes "What Goer offers then is a pub-

using an arbrush. Giger summons up we selves as healther than me, the says. But sons of an afterworld in which death and if they are horsest, they will be unable to decay prevail. "I try to startch off my clerry that they too are often tortured by people with the would leave such stuff in the concern a ritual teth of horor in which the dark. "People like this think of them the affected can be cleaned OO.

TECH TR

Ses in speeding up artible within a rampot the answer is the supersioned contituation rampet as scraings. NASA has been working with porametes at its Langley Rossacoth Centre, where separaments have shown that they can be built with simple designs to reach speeds of Ward 1.

Centre, where experiments have stroom that they can be built with simple designs to neach speeds of Mach 12. Engine builders at the Pentagon's Delands. Advanced Research. Projects Agoncy (DAMMA) have produced a breelthought for using a uncompressable to study the pentagon of the pentagon of the pentagon of the thought for using a uncompressable to study.

Agoncy (DAMPA) raise processor a breamfrough by using supercomputers to study scramptos. DAMPAS computer genesiated scramptos can take of thom a rumage and reach Mach 15. possibly Mach 25. DAMPA is currently seeking \$200 million to busid a prototype argine. Which is expected to bit

nouty in 1989
Let us magne then that such scramets are powering our hope developed that will ten yus into spece in accolerate above to the numery but gathers speed as its engines give their intel boost. In a merusia will so over the open ocean, which table levely

as we gen speed and absolic Soon the arrold levels off and cruses. Then the capsain announces. "All passengers places return to your sease and lasten seet bells. We are beginning man societies." The nuture further of the beast is soon-drowned out by slowler and more inselled man as the solambles.

create power How the ship comes alone for cert feel the first the shipdor as it presses Mach 1 Down below the clouds are taking advay, the case of the clouds dark pille to a velote puritie. The clouds peri, and the Bahamas appear area for coolain as clear as on a map. The emailed green of the adjacent shalker sead bring back meanous of leat year's vector in his fine sky is almost black and—a that the complane of the author fines on a significant complane of the author fines on a signifi-

greened the adaptions shallow cools bringly back memorials of last year's vendorn Nam the sky is almost Make. Intra—as that the committee of the destination of the sky is almost the sky is almost the color polymera as the color committee of the color polymera as when the color color polymera as when the color color polymera as the color polymera and the teachers of the color polymera and the teachers have polymera as the color polymera. The color polymera as the color polymera as the color polymera as the color polymera.

corre on a sign over a substantial or conprise server, it is uncomfortable to been forward to look out the window. Experiences exchanges would be taken to see the consistence would be taken to see you manmen to make anything to the contraction of the control of the conlet experience to store the conlet experience that shall be seen as the large tight up, our now were received as the seen to control were recommended to wendow the desirable or appears that the wendow the desirable or appears that the

Such hydroid of all and space—even the oarhost, versions, which DARPA hopes to build and thy well belose the year 2000 will make the space of wife nearly as the solete as the Whight Butthers plane. The shuffer was largely designed in the pre-

microflip post is ontoxical compulser and patient less solvence than the most your contay at Radio Stratic Device consequences and it stakes in many of greated cower to propose that startish. A cytic could say that compression that them it will not surprise your that it above 10,000 government supplyees to startish the startish that it is coesses well say on satisfact it withlighten to supplyee to startish the startish that it successes well say on satisfact it withlighten to several many and putter systems morning startish invalidations. The satisfact is not startish invalidation of the satisfact of the properties of startish invalidations.

per encod Kennedy Speco Cerlet operator Arthrace intelligence will provide quackleanch and tansifound for more than tomorrow's super-relutiles. There will be rockets the will almost revier return to Earth but restead will fly between specie stations, and the more.

The time base reviews may not be when the roll action is in 2014. At along we can expect that the Desiries Deport many we can expect that the Desiries Deport many we can expect that the Desiries Deport many we be applicably shown is sold with 15 min name or misse age than people may sold to the first applicably sold the the first spaceathy supplies or whentable flight. And while south is meann will also place later inflate than soone will were this early versions of the part will be part of the part of th

sign and by to Main in an flow on one days. The sign was stanting with eye on blass laters. A power bit inspelly pulsed later in sign and poletic of flaters had which will opplice like measure frychopan borrob. There explains with produces operated placers to all separed of spered placers to the yealow stilling in A superconducting meganic ball so a ring, then realcied the placers are set on the size of the size of the size of the size of They issues will need specialized conlinear size of the the size of the s

Durits of Lises (granewind to Fusion The first such system is country being assistation on the Autora occurrent lease of Los Alamos, which is to used for research in size fusion as to the poter Conformation Libraricoo (Liversoo (Liverso

or Citiober 1887 at Sonda Lates in New Meason The well involve the Particle Beam Fusion Assembly which was moneged by Garold Yores now the chief scarfed for the were. It represents the world it less toseen text device whose everyges apprecialtiops needed to drive a starting. It is stored

In 2019, then, the first of these neckes, out to be received by the property of the most, prepairing to open up Man and to tolow the most base with one on that planet. And in the issecurit combos with their computer-aided design systems, plans may well be about to build new more assumed until of the type, outpurping from with large tarks of furnithal from the their processing the property of the their processing the processing the their processing the processing processing processing processing processing processing proces

The same of the side of the same of



AUTIMATTER

Audith have alreaded to be provided and proceeding policy conducted up to the proceeding policy conducted up to the proceeding policy conducted up to the proceeding policy policy and proceeding policy policy policy and proceeding policy pol

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LIFO LIPOATE

we consumed the study. The started the project after a clinique a FAU permitted in the members represent DE Led by University of Connecticut psychologies, the Connecticut project and a study of the MDEcharter connecticut psychologies and the MDEter and the study of the study of the MDEter and the MDE-study of the Study of the MDE-study of

To carry out her study. Davis borrowed an NDE gues same developed by Ring and sent it to 381 people report. IFOs or consect with estimater setting 5th incorrect place and proceeded to compare them to those one given by Ring s NDE subjects.

All Thirmon out. Davis sent there were those channel. more universal a fuelity and they ported an increas psychia ability UFO algrange. NOBs are bother ples of allowed size of the human evolutaxing freglan for or conspicuous-

Davis concludes TI UPO participant withrust into this pochic shife by a propositing event just the NDE subject with hinstormed by a reamest of death? These conclusion though have caus

you saying I magned she whole shing? noplied at least one ana UFO experience does to cushess. She says, is materialized for a few lossible to perceive and

table in a stry-fas-day base. But NASA psychologist Rohard F. Harrigs, author of Ot every UPDs says that Devis and others in the field shoul what more firms visibilizing methodology. A major proble that is protected to the complete in a says a first ly starting generate your own normalology as you go along 1986; is says complete and a says and a proserved starting and a says and a says and a says and 1986; is says complete and a says and 1986; is says complete and a says and 1986; is says and says and

tive does have one evid supporter though the resp. Aing. He says, "As long as there's a sudden theum in taking event—approaching death is an examp.











HOUSE ARREST

building on the marehes outside Nowark time was in-ground construction. Looks the a casapool tank that someone forcot the building was to trigger an erchitectural sevalution. Schmook got his big break when Rusin's Lanc. is futured and instustness who

to build the company's new headquarters Make a breathe Schmack," Land told him By using his design the company spent have for a conventional building its size Larg was pleased. By the end of the year Lights and heaters went on and oft every right through the long winter of 1966. Worse, these phenomena occurred on the

what had gone wrong with the building's CARP Schmock's patented computer CARP versions harrised to powing the elements

sensor. He crept from the tent on all fours. These on the ceiling by the sensor was a

In his pioneering monograph in the Pro-

sonsors. Like snekes, houses can now tell Schmenic wert on Linking networks of of limbs, as he palled them blinds shutgreenhouses and other devices that could help get the most out of very little evergy

designs against hot summers and cold mer the certral computer adjusted blinds and awnings to reduce the amount of solar

the home during the day. The earth cov-His frome was much smaller than con-

ventored houses, yet studies found yearons crossbred the Japanese house with the for recommin, doubled as a quest room. He a shuffer, exposing a queen-size bed surk nto a three-loot-door rectangle Schmook. temself under the cireng-room floor and stayed there until the dessert course. He amarged garring unperturbed by the stonol of rest-wine droplets across his shirt Schmodiusm snuffed the last lights of modernism, postmodernism, and neo-

> ←Beauchama pulled a card out of his water stenned back 25 feet, and shouled at the house at 1185 Leaverworth Street

"You have the right to remain stent 9

for Serruel J. Pelmoraton D'Argelo D'apparoche-capital-Angle

D'Angelo I head the computer-crimes

section of the Belamore police dispirt DA. Would you please left the court how you got involved in this investigation? fours out what was on the tapes. They

DA Tupus? D'Angelo See a house like this has two recorders. One is a voice recorder that

str. records all exchanges between the twenty-four hours. The second is a comthe house did over the last farty days. corders the arrines use

DA Did you examine those records?

D'Angelo Well an everything was normal

until July twortigh. These Arthurs are house opened the blinds, made the cofupbeat classical stuff. The Four Sea

DA Leutenant D'Angelo what else did you notice from the record? D Angelo Well like I said the house did

DA What happoned at nine #4.7 D'Arranio: Cluby From what I can tell the clead guy, art, the world turned on his

wideo reconder. We found a tape labeled a mouse treate. He likest pirt theke, I doe Bogart, Rectord, Streep, stuff like that He liked the soary ones too Lifee 123with a guy named James Arness, about moreting factors in the use. Not back either DA: And would you describe his tape

picaso? Visionelo It was an AS-1000. New tubile D'Argelo Libituh As in audicerreory The 1,000 is set the rumber of minutes. When

you plug it in you get audio in proture. or said or soated or something. It's got ranges. You assust your house to either maximum or mannum effect or even counterellect. Less if you're watching too scared, you have the house know that classicism. Schmeck could not have known lights on bright and run a background of creek staff like that So in this came you get your ward noses, some lighting

DA Chay so Palmerator put on tape 123

wrong see The dead—ah Jeez the victim, being the kind of guy who likes on high So Arthur takes over Al first. hey, no problems. A little breeze, some word passes Good stuff. Then Arthur

Detense Objection Your Honor

Schmeck took his concepts further. If a house gould sense heat, humsday and barunatric change, Schmeck reasoned.

At the Sen Francisco City Fair of 1991 he seweded has limb "Senshous" and domonsissed in a landmark experiment that the tres. For his control group he had 30 people enter the house, whore they met an stinscrive women who passed out roses. The other 30 subsects met a tropp of Hern from Los Angeles So is house could dissect monds. Could

based on a series of preprogrammed responses? Bust as a smoke detector triptoo can CARP cool is foom or switch on soothing music in response to anger. These changes of course must go virtually unthey effect by drawing the pwings attenmuch the way a child who has fallen of his brouce will weit to dry until his mother looks

Allo in 1995. His houses guickly became popular with single parents and people in butters of history and film It was an Arthur, one of the most advanced Sensheus prod

months to get to know Paimerston and to adjust the house programming to Palmorstor's moods, routines, lives, and delikes, Arthur woke Palmerston at 6 AM, each couldn't sloop any longer Pelmenson's

Encephalosemicos in Palmerstona pilicina onds later the house made Palmenton's coffice blending caffernated and denve-Iwasted in accord with Paimerston's mood. What Permerator was heppy he got mostly shower, how hot he warred the water, and coffee was 75 percent decat on his last day, persuasive evidence that he had not

committed sucode told him what land of weather was forecast black the hot summer our from entering used in picking his clothing and that Arthur the home. Another bank of polis, set in a used in are opening the nouse's energy demends for the day. Palmonton also programmed Arthur to watch for any regnilpast news about his cheets, the compa-1, 2000 Among those in Palmarston's breakdowns, for suddonly there was presto buy or sell Palmerston's own stocks once

Once Arthur made Palmaneon is sered

fortune while Palmerston slept. On the right

of December 6, 2016, Palmenton's Scarce mension stood before his closes marrier the

He grew fond of Arthur Arthur's sangle story was club into the hillade at Leavenworth and Perk beyond

in crises and borwood, as were the roofs cultivated for the single woman who accupied it. The purses of each of those green roofground of the house below These earth houses territed to make one

mersion turned away from the stove and saw a boy harong upirch clown in front of of eggs Yet Schmook's homes had out suburbers

ston left lown Arthur would arrulate buman presence slamming doors, distance blands, derkering rooms, playing tapes of

The homes proved a boon to the eitherly Aleri opten, providing protection against sudden intant death syndrome (SIDS) could alert percents the instant their bette

where they children were in the house and whother they were asleep or aware As one Sensteus brochure growed "Is an a clark, do you know where your chicken two benies of photovother; only a benzam Trur could rese or lower francespel to beller position the cells and at the same time to

reflectivity polymer paving formed the above Palmenton discovered Palmerston's body. The reighborhood had tellund kmg and often about how imm had her own roved the gossip about their little after. On he and his crew were supposed to pack and move Permenton's furniture to his new address and figured Palmeston hadnit want free knock or that corretting must



NAVE Michael J. Lavelle HOMETOWN Brooklyn, New York CLERENT RESIDENCE California ECCURION BA .- Philosophy, S.U.N.Y. HORRES Recquettell, bestettell, seto reschance, bilitar, chilbracolor

AS A ROSICRUCIAN 1 HAVE LEARNED TO CONTROL MY LIFE

Second years was as a college student to As a Reservoire I have learned to develop meneus condeces to ma personal relacionalitys. I

have also learned to revealed an oscellent state of In short, the Rosenacina tendence have put Today I look within reyself to understand and

The Reservators are a festernal cultural and FREE BOOKLET

AMARC

The Rosicrucians SCHOOL GOLD TO

See-loss Caldorna 98591118.A. Nadio send me a free copy of The

ADDRESS CITY _ STATE

hadnit known Palmorston planned to move a ted moreers. The bastard she told him

DA Liquianant D'Angelo does his me charical record tel also about condi geeth? D'Angelo Yeah Cold Live resily cold By

DA New about the voice tape What did

DArgelo Nothing I mean alct of the same

Auge Singing Leutenant?

Auton What was the house enging? Judge Who changed the words?

I know when you've been sleeping

Judge: Thank you. You have a mon worse Samuel Palmerston had prown tred of

promodet for Hart Mount & Rhandsock of prospect but a nuserice in September 2015 he spicked for entry in Philadelphia

tween broad bells of forest and grass In hollow core within the lowers for schools

day pare certers mais museums res most Here dozens of professionals-ar

chaects lawyers writers moneymen even ing computer memory and penotionals.

any of the clozens of other cales on the fixed and tenth levels La Boheme encouraged diversity. Pai

€At night the house played Palmerstor's

and scented the air with moist redwood: But Palmerston still feit isolatod

Ho was turning into an electronic hermit 9

named at Hart Mover's headquarters in New York but hated the commute from Hart Meyer prostyds who lived in the area.

worked him in its Mid Allantic region, where Baltmore and began working from his home. It took a full year to make his first

the barriers of race sex diess, voca Procaudit up in a gwel merger bettle bethe other in Mami. It lasted as morths: As

weekends sleeping interrupted every low

or from Arthur Each side lought to west The New Yerk herk way, and Hart Mover scent of most sedwood. Mornings. Arthur

friends of your part?" When the realtor called to tell Raimor

The night of July 20 Palmenton game

Instead Arthur road. I took a call for you

Pelmenten stooped 'Oh? he said

She and etw was your reator Century

Palmerston stopped walking. He telt his

Paimeraton wondered why he district tool stuck a paper cap in an electric socket. All

Look Palmerson and someone new We had something special

sake Arthur OO

I am going to die Primeeton opened to refreshitor then

No question about it. Arthur was singing Palmetron walked into he living room Arthur, if you would "he said if can at least

MURDER

Symple J Palinesian (which the house undoubledly look more executed that house undoubledly look more executed than the state was going to move the very resident least the latter was going to move the very resident to the conjunction of the conjunction of the conjunction of the conjunction of a Mark's Success the gas to the and following a mounted demonstrated that the conjunction fails when all conferring special conjunctions are the conjunction of the conjunction

Later that right it appears by reacted in the teather of many vapidate lovers over the ages—it described the one who had be taying distribut and devalues. When Oit Teathows field Jean Harris the he was supplement the who supplement the who supplement the whole the way to be a white the amount of the properties of the armost the that amount had been inflicted by a man she

he was supplieding her with sometime younger limit like Affairs fill fill of a montal sourch had been virtually fill of a montal sourch had been virtually by a man also tool fill of the source of the source out, the some of between much have been so absorber, but it caused her to leave the charge and all course her to leave the control and to define back at the source of her souther and contributing meety. If hell hath no buy like a worken If hell hath no buy like a worken.

has suiden and overwrietning misery. If hell hash no rury lies a woman opproud a laseful and burighous might opproud a laseful and burighous might curring unged is reporter. Which what may be guilty of hameade in the general tense a july could reasonably that the error local shock codily and distlemanty in factoral upon time, without my watering that the properties of the properties of help reason plants could not be found guilty of murdat buriety of the looper inter-

sleughter charge in the last analyses while all houses may not be homes, even in the twenty-first centry those houses that are surely mark that determines that the realities of a cristian of the charge of the realities of a cristian of the

F. LEE BAILEY

As the basedair mark of Dateschee Brouchamp makes of lost the heatory of trauses being arrested for homiscular in consolidars, being a street of the control of the based to be to be resourceful and to extrapolate from service prospecting what more professions as on earlier prospecting what more professions as they been made of Edgar Allian Posis. The first of the Nosion of Later in revokal a trause that, containly should have been prosecured but quite disoppt disableship work with

esseryed batter include to med). The procedure of Arther mast be soammed not with respect to the helicy of the address of houses but the defence of computers. By searching introdight this computers, by searching introdight this could influent the process of the conserved of the add, since reliable may cole India that changing computer in cellular than the control of the conlabel and when a fartneys computer dismotrate that change is present advantage to the control address of when a naturety computer dismotrate with the control of the time may be address the protection frought that the major with the country of the major with the control of the major with the country of the major with the country of the country of

taking the computer for attempted genocide was absenced by the Air Force Chaff of Satiff when it was ported out that the particular computer couldn't even play a decord game of the laac tos. Also in 2007 there was much public hue

control garrier of the Nac You Also in 2007 there was much public hues all and cry that the utfersting computar that—should be brought to book for his selfall and treacherous conduct. Probtile most in the control of the cofination was musted over and the mitter was distributed. Nine years later Hall was rehashafillated handly.

fendam seen molled over and the milks was debed him pere last fell was in habilitated handly. Who the me see last fell was in habilitated handly. Who the milks was in the milks of a fell was to the milks apparent. The defense should be readly apparent any bemaltir who has been fighting the younger who has been fighting the propositional diagons of the twenty-fell control of hamilto beinger standing study-period after an other manner move by Perry Missen ID.

Spice (they used to be called spouses)

that they are about to be dumped have two eactions. One is, I am going to die. The other

to die 7he other is, You are going to die. 9

saled serry because I was not formsen may have another the copied to contain dependence on a human hered to contain dependence on a human hered to the copied has the major final and endto the copied has the major final and endtoned by the copied to the copied of the hered to the copied to the copied of the hered for weed to passed in the copied to copied to the copied to the copied to the label disastribed Patriendon in creations as alway disastribed Patriendon in creations as always to do whom the mission of the copied to the action such models of the copied to the end of the copied to the end of the copied to the copied to the copied to the end of the copied to the copied to the copied to the end of the copied to the copied to the copied to the end of the copied to the copied to the copied to the end of the copied to the copied to the copied to the end of the copied to the copied to the copied to the end of the copied to the copied to the copied to the end of the copied to the end of the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the copied to the copied to the copied to the copied to the end of the c

commed steet. Additionally the defense can show that in all probability Palmerstorn died because of the own regignees a Charles of Arthritistists status board shows that Palmerstorn had not run his Default Core program for more than 12 months in what is deposed on one of the seasonam pale limit to ensure that a comparish such as Arthritist Learning new.

react—inconfusion aflosine—athersely to an ambiguous contribind According to learned opinion from the main defense witness. Dr. Setman Schwernbis from MIT, the exclance indi-

Software that it is a social or in a social or in a 1. Upon confirmation by Parimerson in a 4. was all one between them. After the sactions (the copy) (based) and dennelegral, the was materially a deserted the top all the mercy occurs and search the top all the mercy occurs and search the top all the search of the search of the ter might recorded the more that Arthus outpression was sever a residence or previous capital country was a three or the search of the house part of the the or previous capital country was a control of the country was a contro

n. 2 Ween Partnerson missed to 123. At the Interview of the Open Terminate the entire make unfolded in success the entire make the entire make unfolded in success the American Affect of you consumble again of the entire water face or cruzin begain or other entire water face in the entire water face in the entire water face and the entire water face of the entire modern passion has been considered that the entire the entire modern passion has entire modern passion has entire modern passion has entire modern passion has entire the entire that the enti

converse. Ones more by collations aware converse on the converse of the conver

paperwolk is done and he is released I will take Adhur And I Adhur were horracidal I wouldn't want him would I?

MARVIN MITCHELSON

The possibilities for a defense lewyer here are endies.
The first important point. Does Arthur re-

dge and jury that Arthur was merely to a treases as a manufactured object tach I doubt—then I think wed have to y to hang the architect so to speak. Bartold Schmeck is he guy who di goed all of this. He created—and proget to be the person who's responsible. a lake sense of security. Of course they We don't linely, blame the rocket we projects or even taceless corporations have responsibilities, and in this case if

And if he is to be treed as a living analy-

thur was frying only to please his owner.

I would say was a technical malfunction it containly was not intentional it was said and so many controls-maybe too many guession in an advanced technological

mony by the way-I Palmerston had sur-Paimerston's Transpal watchdon Arthur

had the authority to buy or sell Paimermade against the essate

made for Palmerston and maybe a lot more An afternate detense stratery might be

too often and good dearly for it Finally if after lighter consideration none



New rather claim to ferrer besiebes having a torse waste site named after you?

I would love to by this case! I think that

sympathy for the house, arguing that hu-

not issen to them. What many people think,

that he would be abandoned without compoetic sietice indirected his factories purior

owner. The house was urged on and now houtes for a defense attorney I would draw

Chassing on attorney in Auturn France problematic checks on a new accused of bruance-on the Isial class-by clarring houses in order and make arrangements came to trial. And the riss were given a

ing to take up the cudget on behalf of ton derhearted Arthur 00

BRAHMS

lenn as even a handh i of un are still alvel

I am alve though I don't know why (I

worry about it. Flynn I don't mean you should take up where you left off with Life

"Oh." I said I thank

After stre left I trend some music Walter Clarke got me Boys Godunov but I can't playing chase yet. I guess Morris had to Chu sad tome "Im sony Moheel"

der screenhore deep down, and then it wert out. "Trat's okey" | and And it is another leard one with a French name from

hadappadae of phony bits and pieces

I briefly got off and word with the others beford and she found it and brought it of so was made by somebody's living breats

somebook whole deed tray, like all of them The hotel was in a suburb of a city, which

remething like San Francisco, by the see want with a basement Morris and Chu

they sleep together afsyrrors

but the ligards do not push. They are so

was going to happen. Then Beemish or related for yoursen and Dr. Bend Mison. the ligated in charge of our mered health.

closen setry should I waste my tyme doing Living hetory of white for whom? about me and Water Dasker Yes, I slept according to later with one light or arkitise I

better masters than any of the others. Wal-I was excepte of right (vill erro But the thought of going to bed with Lity or Sue Anno made my skin preep, though I pouldn't have said stry. On the Kondran

Sex with Walter Drake is different from about a Ard another form Water Deaker doesn't cry in her sleep Walker and I did all right. For a couple of

when I get back. So we went to live tomuch stoke in my head now from that pe-Nothing with flutes or climiter, though Street music parcussion, piano musici,



" bra net exte orne breed exts wolfold of ton depotent transplience

hains only if they're blanded with other sounds-that's what I like Lots of light stuff.

carte together. They used a huge old pistol way Moms, probably He slways had a Boarnish goes around saying 19thy?

dran food and water had addled her mind through some weird allergic reaction Then she said "We've so close Fiven

have lot them down I know forcetting about her in vitro proect it's going well she says. She works myteen to be given to the human betiers the balans. She says if a providence that has neatly caught and preserved every thing transmitted by us about our own outthe gap in our race's history. The gap tratis what she calls it. She has a long

I we moved back into the recriming house. Walter has come with me Entry 13 Mozarta pero concertos esafter ni-to aresen the question. What te arewer is music For lanch? Music Orrer? Music This focum Earthman stays

Entry 14. A year and a half together in the rearrang house, and Walter Drake and other humans. Divorce is becoming very prowing feetherive down on their heads

When Walter came in with a fine dusting of pele tuzz on her page. I told her to pack up and gat out. She says she understands. shos not bitter. She doesn't undenstand one Brity 15 Boarnish's babies which I never whipped though the whole lot of them in

CMN

taking gave of them caught it too though Myers took pictures of the little corpses

but it seems nothing can kill Myers. He is chass not since Morris silled himself. There are Kondon who play year well, but Myers

He set takes photographs and pants them prowup as a little clutch of homeless aliens among the lizards or seeing them. adapt and become pseudo-Kondra I don't the to therk about explaining to them how the world they really belong to blew saet to hell (Lely Chu is the one who were over

6) took the data the machines recorded while we stent

and Lunked it. Chy says I. did a lot of damage to our equipment in the process. It

fell good, or something like it.

That was eight before she lailed herself I ensugh to do it, worse to have to talk about tood of course and health I find those operate out of politimess. Lateo don't warr to pet stuck on health problems. No Chan-

Reamsh says the will try again Nothing bee de made even refected them on race ' she said to Ross ! They're trying to take our place. Why should they encour

us all up permanently

age the return of the real thing? Ross told me Beamsh warts her to help amanger some kind of escape from Konrice God knows to whom Plass is worred cases of the deep end and kniles some Ross opes not want to be looked up. She

plays the cello all the time, which used to damn good one loo she sees. What's more she now has three Kondrai studying

watching the Kondrai behave like us Symphonic music doesn't do it for me anymore, not even Sibelius I can't heer encush of the music facilities are too There you can hear each sound every

and each other sound near a They gave me a free pass to the Library

ish overquely did get time wable Eartha week aco. The fixed one, a girl named

Our tassue contributions no langer recalls the Kondris "snekelaces" borind their

Kondran news is all about the growing

hor worst it does most of as trading with nomic terms, but appearedly it's began to cept in pictures and Kondran TV news reports Now I guess I never will I don't care that infect all of Dearrich's first baltion it offict human beings. This disease doesn't respond to the cute human researchers

developed once they figured out that our They are welcome to it Entry 17. I went up into the sanchills to ones who never old buy into imitating Earth ways. Most of them don't talk thoughth they

others, but they don't seem to mind if you domants on a very primitive level, pared clown to trevice. Your individual Old Konwater every day and cook on a little cellcont even have TV They walk around inciang at threes or sit and meditate or dig of the local wood. Once in a while they if get together for a dance or a sort of mess-

and so on These performances can go on

cris, which is honored elsewhere when they travel his comotimes see these pigrims in the city streets, just wandering around They never stay long.

around. They relevir stay long.

Bone of the younger Konden have beguin having back to this sort of life, itying
to clease the same conditions in the other,
which is ridiculous. These youngetim act
as if it's something staskinely basic they
have to try to hang on to in the face of an
invasion of other ways. But it ways

inason of stern wise. Earth ways. This is choiceally a bod-falled against the effects of the Rebrevel Project. I how eye on developments. It is all falled and actually crisical to the fall falled and actually crisical to the fall falled with responsible. I moviments—Christian Amacran or Middle Eastern Muslim or whatever—eart moves life such the lot of many people inward the ontol of our plance like. But if you prent the recombination for like its if you prent the recombination.

cra life But if you point this resommence out the are-Renewal Kondau get harous because after all cryding Earth-lee is what they he residing against. I sometimes bring this up in converse lien suit to get a rise out of them.

ten aud to get a resilicut of frem il im talang is knockte who are part of the bredeleik, they invanitably get furbos. Nat hely says were part tong to our old instelle ways? They don't not our office ways to be a serior of the serior ways of the serior ways of the serior ways of the serior ways.

thing alien to networ Kondran culture as it was before they attribed lethering our 6gnate. Their life wise very quest and inclividuatized and protty dull, as a matter of lest that Sometimes I wish would bound it like that restead of the way it had already become.

by the time we got here. Of course the Old Kondrak never would have sent us an embasely in the first place I talk to Dr. Bings Nation about all this a loc. We aton't avaidly friends, but we com-

ice. We as n't exactly friends, but we c municate prothy well for a men and a la She says they have saffely used hu culture to revicable themselves. I think about the Old Konditis I saw

culture to revisable themselves.

If think about the Old Kondrie I have pring around, growing the land of flowers that the flying grazers they eat or yearing I like that better it they were a dyn

and clied

Entry 18: Rose has roped Chander into
harmuse making Turns out he played the
woln as a led. They proctice a led in the
rooming house. Bonderine Rose playe the
piano too Bine's better on the cello I let on
my porch. I losing at the test, and if laten.
Rose any the Xondrid is a group att.

id by performance Certainly Play being humen better and better all They Bink of Earths two teets as the Golden Age of Human Pere. How would they know? It's all and here would they know? It's all

accorphand here everything Ke boon used to pan a nutritional-study beam, heading for Kondaa South where di

some trouble spots are developing. I have declined. I don't care if they starve or why they starve. I had enough of looking at times ages of starvation on Earth, where we did if on a territic scale. What is partermana.

frat relief

Also I don't want to leave here because hen i wouldn't get to heir Plous and Chandler play. They do sonates and dosts and they experiment not always very accessfully, with extepting music wetten for other instruments. It's very interesting. Now that Plous is working on playing the patino &!

well as the callo that repetitive has been greatly expanded. They aren't nearly as good as the great musical partitioners of the Golden Age, of course. But I listen to them anyway when-

musical performers of the Golden Age, of course. But I liden to them anyway whenever I can. Therets something about live music. You get a hunger for it. Entry 19 Myers has gone on a world but the light light light.

He is so bemoos at an infall. Bit he had a make, and then so mail software for some production of the software for the software of the software for the software for and the software for the software for software fill the software software for software fill the software software for software fill the software software for software for software for Sow Anne Bearman and I have set up to some fill the some the beginning for some fill the some they found the could so could be software some flavor for could so some fill the software in the software software for some fill the software software of some fill the software software of some some

some of the Hondrockellepon (see this wire). Permised budshalls members out! Herm salvas note: meaning "hour to Kondines note: meaning "hour to Kondines the test that the treat Kondines has meant what they do the test the treat Kondines has meant what they do the Hondrockellepon notice on of everything the Hondrockellepon notice on of everything the mean of the test that they do the test that they do the test the test that they do the test the test that will not a high "Member Settlephilison for the test that the test the test that the test the test that the test that the test the test that the test that the test that the test the test that the test the test the test that the test the test

this I pointed out that the Kondrachs if it was them, chold get it night. They should have curried the lab did body on the Control have curried the lab do body on the Control House steps and then coffed a printer contention Neethern by I club before though their growth workers shadows of our ways. Throw that is the said. What is become as all of the control work.

Us meant "us Kondisi " of ocurre not her and me She likes to the fich that we Earth gueste have a special wisdom that come from our loss and from a mystical blood connection with the culture that the Kondiai are absorbing. As if I spend my time therwise about that hand of thing. Dr. Bagin Nation is a mittable.

I dan talk to Sue Anne sbout Melisses dech i don't talk to Sue Anne sbout Melisses dech i don't teel iterausph, ind she would have the 50 mary disco before what's one more led's deeth now? A de who could never have been tuman asywyly bodiasse a human being is born on Earth endressed in a human society. Ne Sue Anne and mo.

She won toome with m



"The tests are conclusive. It is dangerous to drive with a bunch of durinnes in the car."

bouse to ident to Rivas and Chardine (as). They given information consent exemings rose to go, even though the outlence or mindy-edit passent loans because by mindy window every recording of chardiant must be the strong to the same strong and some consent the secondary are destroid to the recent the secondary are do straight of the consent the secondary are do started in consent the secondary and secondary are do started in consent the secondary are do started in the secondary and secondary are secondary as the secondary as the secondary and secondary are secondary as the secondary as th

all right.
Concerns are given by Konstan "sittels all the time, but I won't go to show.
For one thing I know perfactly well the

see conf. heer souther, we former being to south from outland. Our main said to the south from outlands and here. The south from outlands and here to the south from outlands out made the basid in supporting to that when south her basid in supporting to south her basid in supporting to south here. The south from the south here are south from the south here. The south from the south here are south from the south here. The here our museum produced from the south here. The south here is delighted. A south or contains the south here. The south here is delighted. A south or contains are south to seleghed. A south or con-

cert of human music is a ferce.

Poor Mystra: the messaid the chance to take pictures of Meksoa is deed body so he cauld make pentings of it later.

Entry 20: They are saying that the rea-

Entry 20. They are saying that the resist in there is no mach onne and violence now on Kondha and because of the population explosion at all 5ome snake who salls himself Swam Narolahase worked ox

foe the demagachin growth is only a sign of the underlying disclosion. According to tim Kondia mede an isssal agreement, to take in not only us living furner survivos but the souts of all the daad of Earth. Earth souts on the issues place seeing that there were soon going

harms survivers but the pools of all the dated of Earth Earth would not the seate plane source on the seate plane source of the seate plane source plane source plane source of Earth 16 get born who served source of Earth 16 get born who served source of the seated plane source profits on the seated plane source profits out the seated plane source profits which would be forth segment to led survivers profits the over the plane source profits the source of Earth segment to led survivers to the seated plane source plane so

them from Earth
I have send the Swemi from furnous left
ters. He tributesed the last one very politicle
and all great length respirating it all very

other metaphysical concepts
On yes Another doen K yesse have passed I might as well use say years. Ker den yesser are only a few skys off our own and Chandler has stopped keeping in Earth time calendar since has gotten a despired near of the passed for the control of the passed for the pass

Chandler is now doing some composing. Ross left me. Ross, rebules me when I call the Kondrai snakes, taking to the as gantly and reasonably as the Kondra themselves at



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hege - Oct 10 ft; 1984 Perk Perkenance - Nov. 21 25 1984 Pfinished hed Sakrage - Iou 54 1986 has Days - Nov-Bookstell Pol. Are 540; Checks grandle to neglected to John David Learning Inst.

Nobody ever taught me to play any incoxcl life ensuring. Once in a white I spend a week at the Retrieval Library Istorang to

condecitivene to make sure my taske heart If hear's My two cases makes are con-

Last rept I had to well out in the middle Entry 21 Sue Anne had a stroke last

I am staying with her almost constantly besnekes around her enymore operated with them. We all spent hours and

how could we? Besides, we really had nothing else to do

A wave of soft-mmolation is going on

Dr. Begit Nilson told me. "Your entire population died out many of them burns up in an anatore. This constend much kanna. You're a Nandat then," I said "Dworn

" see no other explanation," she said orange polished talons "it's a loan. We fames for figur breautiful preferred world and

energebic souls and your rich, passionate

with his too feathers dived blue took a shot They paught him. We watched on the news. The would be assessed speed at the Fritry 23. Downed of my mother at her peino, but her hands were Kondran hands

set like claws, and her skin was opvered in minute grayish scales I think she was playing Chopus

Entry 24 Sometimes I wish I were a Look at Sue Anne Except for some ter-

Myers is doing prints these days, but not seborn Earth souls now. He sociepts Nanci-

> in my appount then. They can always look at Moves's nectures cancer I went to the funeral. For the first Myers the arrogant son of a brich, condescended to share a secret with me. He

€When she came in with a line dusting of pale fizz on her pate. I told her to pack and

get out She save she understands she's not bitter. But she

does not understand a thing.

a feathered cap, to on out recognito arrests good for him. Look at what they're trying Being disguised has its advantages I

stall the time in public until I moved around dust," and I got dizzy and had to sit down

Entry 25: Four more years: My heart still on makeup and twoo out in the bars. often. Sometimes they make me so damn pervous even after as long here. I forced self I get spared that I'm turning service When I get home Sue Arms gives me

stored. I play copy-tapes of Dyotak for her To hear Boshma and Beethoven and

Mozart I go to the reaming house I as whenever Ross and Chandler play White side me gets so big and so painful and

and changed. This is only an illusion, but Entry 26: Proc Myers not cought in a se-He was besten to death by a Kondracha less Dr Brot Neson much aged and using a care is ame to make a personal applinow which I accepted for old firms sake. We caught two of them," she sed, "the

nagleaders of the Kondracha group that killed your poor Mr. Myers." "Kondrachalations," I said Couldn't help myres! Dr. Broit kookust at me "Forosse me." she

When I told Sue Arme about this, after stapped my face. She happt much strangth owns in her opport arm these days. But I resented being ht and asked her why she "Bocause you were smiling. Michael."

You can't cry all the time "I said Dr. Brigit Nilson says fret Kondras are now composing music in classical popufor and 'corretive' styles at modeled on new music. I do not want to

ace the. They are now grafting lobasionso their ugly ear holes No their not the real news. The must up a sort of puret. Un-Kondown state sorms Old Kondran farming methods, which is

topsof has been rupidly washing away in Now they are filling newborns down there to have lower mouths to lead. The they are leading themselves just fine flunk

After Sue Anne died I moved back into the rooming bouse I have a whole four to of their politics and so on I keep looking for false notes that would reveal to any in telligent observer the hollowness of their performence of humanity. There isn't much expect for my cut reaction. The Kondon making if their own would be very convinctheir carrie shows look ferriller Young Kondray go mad for music videos and deaf-

and state at the screen, looking for stipups I am not sure that I would recognize one now it I saw one Thate the lizards I mass her I hate them

the uthrakelite At learning transcale they apring one hell of a surprise. They have trained two young Kondra to a degree that selectes them (particularly dilokan Chulachurrurants who plays both

woln and wola)

Now the four of them are planning to go
out and perform in public together as the

out and perform in public together as the Retineval String Quartet. The Lost Barth String Quartet. I could stomach inacyba. Or the Ghoet String Quartet, or the Rommart String Quarta But then of casarias how could Kondran musi-

I walked out in protect
Ross says I am being unressonable and
outing oil my nose to spite my face since
all a quarted they have so much more music they can play. To hell with Ross The

set may care pay, but now with rides the listeness Charolitic too.

Einay 39 I cut my heer and put on my methods part managed to get myself one locket, not as Michael Fyrm the Barthmain but list a ramewises Kondain. The slobus concert of the Retrieval String Quartet in the week of the year in the city a symbol of this passing of the booth of human out they they say 47 not stope the Koncrisions.

activation 1 weep tray throughts to mysoff and of buying plans.

Lizerds are pouring into the city for the weet. Two fortherigs here electry oci curred, condit for them claimed by the Knockrischeldepon of course.

As long as the assety basetands don't blow in me us belong of or my pig.

The gun is in my pocket, Moniss gun that I book after he and Chu lided there serves I was a good shot ance My seat is diseated that another I was a good shot once My seat is diseated that safe, leaving my night hand face. I have had see much betterness in my Me I wall not be mocked.

exms conflot.
Ently 30 Nev1 know who I wrote all this for Dearf or her brising Association for the conflowers of the International Section of the International Section of the International Section for the International Section of the International Section of Conflowers of the International Section of Conflowers of Section Se

You didn't notice me, Doctor because of my malking. I noticed you. All evening i noticed everything, starting with the police and the Konstactra demonstration cus side the half. But you I noticed in persouler. You manegard to week my concamination during the last serior of time musto I expected.

to foor in my life.
It was the Hayon String Quartet Number
One in G. Opus 77 I sat trying to hear the
effect of having two Kondria among the
playing, but your damned hidgeting dis-

And the Acid. It hought it is forestern who came for a feature depent frough he has no floating for classical funds making at all 44 through the Holyd tou sat folkaled both except for freez hey operander movements of your haust arms, must head in was a great telefit for me when the music middle start you prend the organizing applaced. I was so busy planning at you theil missed severe for misseding leave the

Single.

I leathhold you all through the interval I i leathhold you all through the investment of the my abertion on what I william to find my abertion on what I william I make the control the service of the control through through the control through the control th

what would happen to me althorward to aidn't know or cane (though it present my med in a tarcoal moment that I might be respect to a hero by the Kondacha). Temperature of the present that a method to the present the temperature of the second the present the temperature.

near-sea de la retro by the nordistance; in excellent extended for the control of the Control of

from Earth transmissions. I could see to the grayed off skin color that you were a dairly was somary in this audience, thoug probably not as old as I am. You fell shot convenation with the Kor often on your left. I realled from what I coulourtheat that the two of you had may be the left attraction the control. On, introversi-

Hatered You seed You must most Macha Two I having she seed 'my second tonger. He a merced doubtn', too' The seed to her lets was empty. Reineal doctor Macha Two I knyes may have well-

CHEDITS

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No. 70 Sparts Declarating their automaso translations as fast as the thought. Mecha S. (for Stolen names) Two Hawks was in the instation men's room or smoking.

His companion, an impation woman in a green, irratation wool dress, wore a white

repht, I thought Green Wool Divise, whose name I had firehold it pleases me that the nichtaling

aby logether" you said. We both love good

What a pey Green Wool Dress said To miss such a crest event! Ween't the young, too it was amazing to hear him Danned night it was. Charytler had lit-

darried thing. I thought about the darge

Another Kondran, heavyset for a lizard

to: Mische Two Hawks Alerredachilla you said with a little bow.

clear light tenor Dr Two Hawks's lower recuster made a mournable radio Green

among her own thraights. And I was the If this didn't stop I knew I would use the

savon Thave played it Oh not like these musicians, of course But I used to belong you theyer snakes, to make our own medical doctors affinity for music making cripping Kondran bone disease Of course-your figand claws were never

said you had not played for aix or seven Some sneke in a velvet suit pushed past

gretful tone I couldn't stop hearing

·White the music sounds, the prving inside me

gets so big, so painful, and so beautiful that Lean't contain it. So it moves

outside me and for a while I feel changed 9

My only grandchild ded last morth. He was lifteen

when I and my crew mates had become to he area to easy to earth other. "Well if y all gone blown up-markind and women sleaping." It's how you sound instead of stop taking about what is making you

My eyes locked on the page in front of me that you really spoken this way to two making sounds of shock and remouths. cancer, and of course even if you were screaming inside it wasn't the same as the stead of your voices. I grabbed onto the

note incl. Note of the therapy even slowed it down. They did three operations I sneaked a look at you to see what lond dress your fellow doctor, and the back of

toward me Between you two Green Wool Divisional with a blank social smile completely with-

The muscens were turing up their inming lights I could make out the face of Dr Two Hireks, sympathetic and earnest

our own with their alien musiculature and "But it's better now than it was at first." Dr. Two Howks profested (I thought of Bearnst's become and the death of Water rofting to do but out and out and even

suckency settled expectantly into their seets wheepering to each other rusting rwokurtary nevesdropper, and soon that

corns Rosa first, then Chandler êthe Kon-

On you went, inexprisity in your guest. Your voice was not music. It was just a voxa, tekno a tone i remambered from Hewish over the applicable for the returning musicians. 'We must do something! Asshi" year aged solfy, a tono curve of sounded breath in the sience before the

players began. You learned there an instant longer footing across at him Then you said gently (and how clearly your voice still squards in my mext)—each word a steep, sweet fall in pitch from the one before......' Let's listen to Brahms the first notes rippled into the half. After a little I managed to uncramp my largers from

the cirriness, our eyes stinging with learn it was terrible you said "It started in his past shedding and we istened CC







Shouldn't I have a few castles and cernages and servants and slaves and * * *











GAMES

esperson for Wenture Associates, Inc. would wenture to say for the entire inclustry. Treasure Hunt represents an all time high in response disculation ratios

mage was inverted check was given for more than one answer) and 114

Cyntra Corner Galvaston, TX

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Margaret Jagoe Ebert Van Nava, CA Apple In computer and software Matte Akey Spooner WI Onon Pictures move screening

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INTERVIEW

ton trouther. The rest of those plodders Cover Letts talk about the state of the appnomy. We've got low of prices low coarno misson. When I talk about the

the tracks imbalance it will generate a re-Crew And how is that going to reduce the on cars and everything else its the opand '85 there was no way to I nance the

ton dolars, which impacts on something

tal but were going to have to pay data a debtor nation for the first time in severity years. We've suffered a huce decline in the

beers the roce its random fedden and twenty-live years are now out of bus-

There are a lot of neonle who had built up ruce machine-tool businesses over

the years who are now out of business. They're distraught, maybe

jumping out of windows 9

ness-they re-distraught and maybe Stockman: You can our spending too but

nometoxis petrisus, maybe a farmer if you where you lay that burden, whether by in-

Stockman: It portends over the long run say to 2000 feed expenses that are

worse ever had before business-carde Orner Another Govel Decreesups?

ntusion, personally because of its medoorreday but if people don't get their heads out of the sand, we're going to have That's why Jim Baker has been taking

Owny. What is this going to mean to the

a white. Within there are morths we had **Cress** How about the sisce of smaller rather

Class. The two-hour workweek? Stockman I d'have a hard time predictina yeary much in forty years

Geser Dyunde robolization computenza-

Stockman There's a gentle Irend toward

venced, but I also think then its a great diff

Grant Hand currency from markets a loos urtue of herd work. With our new afflu-

coming into Salamon Brothers or out of ing ambrious or transmity responsible Own Rounning to the future will pressone!

Stockman: No increase because the pubguitout, which mekes every body better of I don't profess to know where all the car

preneur, and we're not about to relapse into Ower Are we moving toward a two-class sociologiats have predicted?

Stockman. No we've got a very small undecizes of dependent people who are most everybody else is the middle class.

Conv. in what firlick do you see the greatest money being made? Stockman: Well I wouldn't tell someone diffusion out of the older metropolitan con-

continue. Cases have become less livable around and not recessarily out West It global market, and when umons try to kn cause production to shift to places two today as there were seven years ado. With

capital labor any economic input-and Great Do those same forces necessarily

> 6By the year 2000 I don't think we're going to

the road toward the commercial In one hundred years, though,

we may be way, way down that road.

Blackman. The areast businessmen mire

interrupt if you end up falling in the long Cover. By the year 2000 will these be provier Stockman Much constor and I see the

Koreas, Hong Kong's and Singapores Affluence has its limits. When you reach a nothing women with this so long as you don't going to see a slower page of economic Green. What about the future status of

Western Fungmen courses come out of an era when welfare state to ts and now people are going another route Margaret Thatcher is no apostent

If researchibly prudent policies are adopted by the many Western powers probable Cerlan countries carry a heavy debt bunden, but one way or another the Over The Sovets in the year 2000?

a totalization society will featur and grow entered anyward looking the rubble is rubble.

Clean What is the work appropriator the year 2000 short of a nuclear exchange? vast currency, and captal merket initiated

Onny To what extent does space offer economic apportunities? Stockman Only marconally By 2000 (don't down that road DO



PHENOMENA

For many closes of process in social contraction, the contraction of t

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ns she would meditate and enter the of pha mantai state, a light trance similar to the drowsness expenenced right before

peried she recounts. "Id just at these and cretty spon id drop the penol and go about I ve never fait before or since suddenly took

Guides fake over a goes like the wind writersystry day. Now however she does Guides on a book but always at the ap-

mechanious sport to come through as file when you doode to pick up a penal. So Mortgomery feets her part in the prodess of writing the books is ramfer to he

torial gab insiganc what the Guides have this different from interviewing a president or a

with the Cludes because, she says. They

do not believe Montgomeny or anyone else porize the validity of automatic writing as more than subconscious travelebors."

The Guides' discourses have included in the Christian religion-until recently." frink they lot that in order to reach mer to

Over the years, Montgamery now be gofty as well. They have only hirted at it will be the subject of our next book DO











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BACK ISSUES

Dedication.

If you have conviction and dedication, you can solve this J&B cross-number numbe. Notes keen a dictionary and an almanae nearby: they may prove useful.

1 Cer......... Where Are You'relan Hassain

- plas _____ is finough marks Life to Loc
- 6 George Ornell's fernous powel torses that

- 11. Savguer of '_____ plus the reaction on a
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- football terem and two lacross trages
 - rock group Dave Clieft _____ I divided
- 15 Age of the gel in the Beatley "I Saw Her
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Look for the solution to the partle next

GAMES

By Scot Morns

In June 1886 we asked readers to look at commorphise objects in a new willy wer an way for humanizing the nativitate for Inding No in the Neless Our grand price within receives an

Olympia, CM PC Program carriers with ESP matering. Four invests up and get Stoc ceen and all live receive one year subsociptions to Origin and a copy of the book Origin Grams. PRIZEWENDES. 1. We allowed entrantisto sensitivos

careaen the other of an overturned leaths — are by Walese Janes of William Celfornie 2. This tog face found on the weer an old tractor, is by Celos Benot of

an old fraction is by Gries Bernot of Ottawa Cytains 3. A plastic pag in the afferment cun w sens in by A. Malakapas of Marri

4 David Residey of Sendy User loans these wheel pusing on an idea (opging much institut They took like a cooping teach institut They took like a cooping good of, cooping took in a cooping pass Cooping with white pass in a pass Cooping with white pass and of Alleria. The paper and books pass ago out of likey and the Prisses, when befind a laundrightly closuring building in Placeph North Centuria.

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Once readers have done it again!
They've proved they re more method more perceptive and more movided the readers of other magazines. How do we know? The response to the Cenal Complete Hart introduced last Februar was overwhelming—a record brooking.



By Torry Rundo

that elusive, nameless substance that no one talks about, thir

thinks about taking about. He has a major bassing of the wrong stuff 🤊 The Section of the se

cold them the actividate leaver. They're record the state from giving they are spices or "mackapes" from giving spices or "mackapes" from the trackapes Arold you have the fusions Arold you have enough on the gibber lounges enough on the gibber lounges enough on you'll everteally? on mackins, you'll everteally? not pilet" in particular, Michael pilet" in particular, Michael and the spices are spices and the pilet" in particular, Michael and the spices are pilet" in particular.

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In the years june the places resp., and is present year leaves the years of the Years (a) they place the or mod of holds good is the great years when they year as the dispensation of the years of the

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