



### ENTOR IN CHEE & DESKN DIRECTOR- NOR DIRECTOR

GRAPHICS DIRECTOR ITRAK DEVINO EDITOR ALLARGE DICK TERESI MANAGING EDITOR STEVE FOR

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Solttery he have evenly believen 4 DAM



FIRST

By Robert Gallo

 A doctor can easily skint the AIDS issue by attributing an AIDS death to a matignancy or pneumonia, two of the common conditions that can often bring on an AIDS-related death ? Publications in the updates by update output new excertivations that epoch substrates updates and approximawhich is approximately 4 300 of topopeople solution with the dates of dates of the public line eccin and the sporte date to public induce.

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Robert Gallo, a solicitist at the Intelligous' Inditalian of Excellshi people powered little A035 joint

# CONTRIBUTORS OMUBUS











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where the only ilumination was from strobe

Dear Anghymous, What sort of loom

perspective. Psychotales (pape 92) a

# 

# ETTERS

# COMMUNIC/ATIONS

#### We, the Poople

The September 1967 issue pants a picture of a high-tach society turning in on isol its inonic that at the same time the Soviets are coming up and reaching out.

Alleh M Dershover (Frei Wood) outlines throats to the Constation by policities throats to the Constation by policities and the Constation of the Constation constant rights gasteneed by that document if a late satisfies that the gavernment is understeining the Fourth Amendment frough increased use of computational like, and weetsporting Understeining the Coals numerican the order of our rights by corporations that out any other the coals of amendment output of the policy.

A lifeen year old writes this start she is Temferd of the future and would subhave a kil-scale nucleic wer then text people foll her what is tents or consort what the rends [ Bock Tak: Forum] Are wit going to seture to the demented date of Senator McCarthy?

> Tom Gill General Secretary norcan Construent Pany Baltimore

Destroakt says has concerned about timets to the Constitution exposely the logial problems associated with the ATS will a facture the kians that outlies optimizing the subsyciated in order to stop the disacty deemae. A bacterized werson of bottar deal them set marked

Tknow our Constitution will survive intact through 1591 because we will not folerate any loss of leadon. We also cataens are very aware of what we have Los McKethen Live Oak P.

### Head of the Class

Peysits tend filack Tak, Cookig pail Toese concerns en diculuse and il for one dhould heave When I was younger I read toss of source books, I was completely innoced then but that s not solitable My change was not coursed by est books such as The These Later Figure of by reading second but by heats and discort in the States, before I was book the secold of discort was soore but by perents who could not talk to their children You cannot abolish evil by censorship but only by undestanding, their and love Michael Mendoco, twolve yoars old

### Getting Even

To the suffor of Bresk Out Your Handkotch als [Continuum September 1967] Incur our expenses and be as declasted to quality patient care as most of us are then write your article

Sherry Baker says there may be an "spatient of high blood pressure in the modual community ( doctors income bibletwe \$110,000 Well this story valued by blood pressure—and probably many other physicalanic natched in the same way Wilam Wytherbach M D For Whiter Beach T J.

### Hand-to-Hand Combat

That Ion with the Walds Hardes Which is Which Duz: [Dames: September 997] But the answer to guidston 5 wiswrang The tread line runs across the middle of the path to between the Vie Ion and the head line.

What do I see in your future? I product a furry of angry latters from patnesity buffs everywhere. That's what you get for the linements providers.

Margaret Gunning Histan Albertik Canada

### PS. Your Cat la Dead

Ive purchased my last copy of Qrex 1 can do without teck humar about some suppressed anchesological indicated the Motice Teamment and the Insteamth aposte named Bing (Last Word Septembar 1967) If you can have a good day We Humanya

sucson AL

A word about the Middle Testament is in order wonderfully hisnous I chuckled all the way finduality in those 17 command ments one bears specific manson. Thou shall not discontinue is good thing on pain of lans of masiantip.

Max C Marx TokyoDO

And the second s

#### TRATION

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PORDIA Estinget Introventions John Diversion for Estimation for Number John Diversion Company II Reptice Carl Strategies and Stop 19 Jacob 2: "Nationation of Reveals on por LIFE AND DEATH

# FORUM

In the near Juany will death be received by the need-a community is unsubare people who are in a come or in what as color of persistent regotients rate? If our constant of death as legally changed with have to a publication of organ harveship and subargerity, the constanand/stance of the safe wave history of the PAP of the constant of the public of the addressed the sales in the article. Lest gette, and many readers argumentation

When my mother became if alw signed a done card. Hat correas were the only organs worth harvesting because of her illuses, but my latter disapproved. This is notice as i was recently ktid.1 world mouse a comment investigat

Many people including my lathis, believe organ donation is worging that it is tabloo We must try to understand their resultance but not loss hope that organ donation will become the rule rather than the exception

Hones Hoover

In an excent parallel and the INFOLDE train to "tast Paple" out directly informy mental operating room. Most pacelie force sause like dash into the fair commis of concoputaness, where they become in mainted on the patients and hereit moves or they had a soft they were invitcable behan they including bendlin bong nodelined, and his anacle is noces tory reading for the lwing

Robert R Rutledge M D

Siten reports that the world could led fare in a studiet in which death test would become an industry, expending we redefine the concept of death. It servers to me that has the case stready Death is in industry. It's called abortem Prevend Daniel Howards Genera Community Church Omate

It is untortainate that Stein his helped perpetuate the supposition that persons labeled as vegetative tack any awareness to OMM Over the last ten years live spent a good deal of time with these people, wireseng emotional and human expressions that they supposedly cannot show

We still don't know wary much stood how the brain functions, and it is looksh for method professionals or journalists to state is a fact what they are only guarding. Rehaps it is the expense and not the socalled vigetatives who need availating, J E Treatm Microsofte

Has off to Ben Thad a tryinad of responses to her article and she has reclusted me to their more critically about redefining death

Mrneacel

The life of the individual has become worthlass: We have been gradually tensformed into specificati workm— up for graduil by tennests integrote financias clarg address and just plan munchinous thugs.

ministran supposed by Weil 581 for toget a human simakis, go di anguti soveregni mori and kineme butohy a collectiva incoreculari focueri a collectiva incoreculari focueri a l'anti ser subjecti la apongotation and subirbatidonumenti diangene il la nel loci disanti day whan hashar car consati contre consorti d'an relativa wil be mequand we will go through lie likunita befai conserve tata soudi casangote befai una weili and up packed ni an tigia Raymai

J Kalasin Gaihenburg ND

The decision to be kept alive for an indulents printed of time is all individual one and shaukint to eith entrety up to tamiy members or physicaris. I now estruct to important for an individual formation a functional.

> Cathy Kahoe Warrandburg MD

Today datable remains the legal aftair of the survivors. If the main concerns of the two were changed to reliect people's right. Io deline the quality of their lives and how they wanted to dispose of their own bodies that ligal change would ensue the each individual his or her true last rights Richard B Kruk Digan Procument: Cooldman University of Rochester Medical Canter

The clear of cognitive data in appaining to consider a code from who have to be their interaction remove speech and, does who have the second t

Whittee CA

I was impressed with Stein's imperial stance I found myself both for and agend the passenation of life through machines Proponents for each side were very introllane I still cannol decide decide Printys

Invited you would decorte as a fost own Three years points an an own Three years points and the down my both dom was reard have a period caractelar to an open family was anotherable to a period of the period caractelar to an open family was anotherable to a period of the another

Jean Ann McLaughin North Harwich MADO

# THE NEXT SMALL STEP



By Steve Diffee

ou're in cheree of assembling and station Not an easy tesk under any circumstances but your assignment. budget and to make it profitable in a mere

Such is life with T.L. Keller sinew cottauler amulaian nackase called Astrochysics and eXperimental modulesi Like simulators used for transpoortiescased and educational. It also offers released for IBM PCs and compatibles

analyst for unmanned space projects at the Jul Propulsion Laboratory

Were not bearing people up or flying from one galaxy to another

NASA-McDornell Douglas descn. Her also consulted NASA designers who eformation. The result is a program that resumed) to complete Depending on which of fee levels of difficulty you choose ters as fire toxic explosions lockness me a lot of clistness. The Space M"A"X

package beens the following cautoo

simulations for NASAs space station accid casting of the pressures on someone

computer programs also praises the documented software I ve seen in years menual so good a m challed etrack also called Endeavour) the mechanics of



Build your own space strekes

complicated business of doing research with light assembly and operating owned

part of my the services Labourt \$40,000 to take a shot at what I wanted to do on rearse it for the next of rev life. I thought it not destructive. I also want to encourage

Now based in England. Keller has financed i can't compate in terms of of mouth to promote my program ' Even "I would rather out my own show. If's one reason I wouldn't want to be project manager for the space station | couldn't

Though committed to the pressor of money, commercial companies will do rep

As an encore Keller is putting the action. Studies show that oxygen for a Earth the explains 'Robether with the menorals on the lunar surface them will be generale profits it is not fantasy," masts the sky's the limit DO

# AFRICAN NOEL

# EXPLOR/ATIONS

By Mark Patinkin

Thuku Mak-We are all of us homeless this night. They are remains with bave left firet hand. I are a traveler far from overything I are part of "Together, we are spending Christ mat Even in the desart.

We are the obdisist or coupling. They were bound or to be a table of the obdisist of the and bound or books. I a table shall be explained they were bound only the Schara 1. have with me enclupic carb to cross the coups in a memory if they want to wait they near were they here encluping. And single to be the coupling is mines because them to know here working were they had and were they lead.

The best way to get here is by Land Rower My guide is a Western doctor He gives nitroductions, then leaves for his own Christmas.

The name of this tribe is Tourney. They live in terms on the banks of the Nager. They came in from the deep desert only a month ago, subgets driven by hunger. I am taken to the tost of the ched. He gives me his hand and tells me his name "Harrzata", ho savs

The other is well aducated Liabar in French but all we have less than half a language. We French is only marginal the right free would be margy ages to bridge. I wench here, under the voltation and and gift a law that an under the bridge to the the has in table new form the tome. Even der if it is ableving only of more I worder if it is ableving the the table table the table ableving the table of the table of the ableving table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the ableving table of the table of the table of the table of the ableving table of table of the table of ta

Lesplan that it is Christmas Eve. I



Well listings of joy and somew. The chief and two members of his tribe on Christmas (ive 35 OMM eighter that in America this is the beat lowed of rights. They say they know about Christmas, it is not these but they income it. The other motions to come of the others, the has them only as appendix bed for mit, in hai tent. I bell hem this not necessary. This bed encours) is we attived unannounced at five res. This pound would be fine But the means i lam this quiet.

Second Edgines to get cold. A firm is it in little side that there is understand how this popular cannot be hungry. It is simple to any Tay wheel of cause the discussion cannot the geness designeeted. The cable did "Them end be more of a stery than that it is ying the single discussion there is a story of loss how the topologic of the topologic disc how the topologic of the topologic disc how the discussion of the topologic disc how the discussion of the topologic disc how the discussion of the true time when

More tax is pounded Mose men come sectored We gather close to the fear Why the desert? Lask American would consider it a bankment. The Maske hem melle it is the opposite the says Desert of them, as feared that any Desert to them, as feared to fear the two the cosys have an acting to kind. With the choose meria phase of learst but a work of the There was there on even own indet.

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By Blythe Arlanger

have seen track ten into traduction may binn, commended freed U. Aldonnan serving ten and and the second and serving ten and other in the collected everything and anything the additional second anything tent of training to more the additional of training to more the additional second anything the main second anything tent and soon. Otherweet to have mark han up to their their the discussion to provide the second provide the second anything the second anything the second provide the second second anything the second tent of the second provide the second second sec

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Marban mask is part of the first major science-fiction memorabiliz auction in testory 28 Clima

The obscene of Ethiope's simply call as while Garrings's none billing call. The Acctor of the Cartury' To be hard at the control of the Cartury's the behavior of the large the advection of the control relatives and the control of the control relatives and the control of the control antifactor in head of the control head and parson the folder and antifactor in head of the table angular behavior and parts of the tables and behavior and parts of the tables and the control and the tables the table the control and the tables the table the control and the tables the tables the control and the tables the tables and the control and the tables the tables and the control and tables the tables and the control and tables the tables and the control and tables and the control and tables the control and tables and tables the tables the control and ta

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For services Acknown had been moglosing with the city of Los Angeles to Tossie her collector in a meeson but notify and come of the piece. Werkney, too was interested but good interecore time to haught Damiy sogneed interest in some special paces for a threme park in holywood in the gharour of yoy. Ackee man is all considering this ethologie the reality works the colecore to buty retact Why them did he agree to sell of everal Myster date a auctor?

There is tracking arrange the explained the Garage Maria in which you couldn't perivit poppositivic because it is not built of claphoster meteries. It decirated to empty out a lot of that for the access. Then it residently you do not have to be grouply when line with size autopagning period. The outbons factor't can have with one period. When Bons factor't can have with one loss Or if howe two statisties of Briel Logoca as combigling in but of the actual collection facility and the output of the actual collection. I have collected everything and anything that qualifies as science fiction, fantasy, or horror—scraps. that nobody bothered to pick up ?





Accentra closes in resid Topoten Velonio to lei fini why all hose como are groung in value heri og tin antwer motores. The leist topot in antwer mogazero Antonce Monatore of Anthene add hor & cambo in dehana volta Beoenty, ho says a copy of has very aug soot hor as 1000 centre of the any sou reading that lass in (71 hor here any sourceding that lass in (71 hor here) any solar seating and the solar base of Sheven Speterogram, Georgi Luosa, Jahi Landis and coantesia athesi ant firster also mages in the vasoblastio

For safe (clockwese from appeninght), Gades hand neak from the rows Damon Saed ble dharing of Jahr Chrote naged by her sentore togen nabel saf halad neak from the movem of H is Neaks Frida of the Gazes. Inside of a Vestaen wit sitede who is bette homed main the constate in histore. The people hand main them the two sitede hands.



When got the autom catalog Speclang in a hat, marked so when retrocky time Alektronia is a two in his own the same emission glades with the some time and to get him insubite at home favores at water of integers with the some time Breek gatabach is shards form more carents and the rek yanger Blackpaper and backtame it may be ablace to get presentative the source paper and backtame is made in all the some gatabach or with and shards the top presentative the source paper and backtame is in bid in a performant Topper induced implementive symp. and backtame is in bid in a performant Topper induced in performant he says, and backtame is in bid in a performant Topper in handle do

Up for auction will be an original letter from Stephen King to Ackerman as editor of Famous Monsters It wards "Dear





Editor I am fourteen years of ego, and histo been writing as far back task I can enternembat, and submitting manuscipita for the past couple of years. I subscribe to year magazine and my fewrine leatens is the Obstacry department, although "O Henny's Come! for which this story is infernided in rule a close second.

Thanks very much for reading my story. I hope you see your way clear to put it in O Hanry's Cornet

Has the world changed for time since the Yeartias when Acketers in swi Menopole for the Inst of 77 time?"Ondentristy? In the beginning we won practicity said upon We was these carry built Rogers does wind though time was genry to the mone and all had indexee to all the indext carry shoughout high uses the indext carry shoughout high levelsed to be invited back to high echod sates and to be invited back to high echod

They that's quite an accompliatment for a creavited donitoria frank? DO SUN DANCING

# EARTH

By Judith Bell

In a small noom in Noverweek Castle, a nanow Natva Amonan un in Ular, a nanow window 35 by 45 minthes and 15 minthes divel, tools wind it All the sum beigns to sof, light comes through the window and being its spheroid single from it stands along the well as a golden ball. When the later the well as a golden ball. When the too here—one heracomol one window how the momentarity and desolves summer soliton bas anned.

The Assace accesses of the modern day Packiets built this dealing in stool. An 1020 They designed have "sphing holds: in this walk one aligned to summer solidate aronal or uses 22.1 built with white solidate on December 22 Just as the aundal indicated the hour of the day by moderning baranes, calculated and by moderning calculates the sourflets on the sources of the sourhours and a solid moderning and the sourflets and an and a solid moderning and the howevers, and solid moderning and the howevers, and solid moderning and the howevers and solid moderning and the

The Anasiza's cyclical observation of the sun is a key element in sun drawing an art form originated by sculptor Janet Saad-Cook. When the sun shines through The large southern wind own, hher deartown killwrangen LC, sludun it rha reflexive kill make harb band and placed in the pail of the sum. The deart surgers loachas the materials, where reflexio colorful forms of light wratis har walls and calling huritopit mans of slaver heless of prix and game flow risks. The short of the light samp of light with any south of man 1 rows dawlings of light with any south of the samp. These masks of light immige and displace only to be replaced by the recoally externed forms

Che day in 1981 Saad Cook was passing through a capariment store. Enwes stopport short by a champled poor of instruct plasmin in a common during this material stores and the store of the spoortum. Shu datawas a bot of one shortum. Shu datawas a bot of one shortum. Shu datawas a bot of one shortum. Shu datawas a bot of one cases a bit associated in the sum. The whole noon bus wite case the nuclis. Tapont a year change the sturing that caused my studies outpermembing that bus a bit association with data were bus to be associated with the plant of the sum the whole noon bus wite case the sum of the whole noon bus wite case the sum of the studies outpermembing the sum of the studies outpermembing the studies the studies the studies



Said Cock wants to statel's sur drawing in the Very Large Array in New Marco M OMM materials including Kapton a glimmering gold polymacinitim used to line spaceorali and space suits and metallased polyester: an inclusinal plastic film that caterit is stivery white light.

With these high hadn meanwels, in August 1985 case Clock leads in to mark hexarit is pressing on her stade libor with hexarit is pressing on her stade libor with her data and sme that if hit a price place Eventually the issued that as long at the teleface with stade of the data appear executive as before at the data memory in the sample search areas memory in the sample search areas memory and example search areas in one on May 1, 1985, would respect at noon on May 1, 1985.

Here inside with to Howeneage Data were during the source solated. Here in the drafteness of towers and caldles mean driving early and caldles in the eggs of carryons and whose closes of the eggs of carryons and whose closes. Whith the eggs of carryons are drafteness of the based where the eggs of the eggs of the based where the eggs of the eggs of the the eggs of the eggs of the eggs of the eggs of the the eggs of the eggs of the eggs of the eggs of the the eggs of the eggs of the eggs of the eggs of the the eggs of the eggs of the eggs of the eggs of the the eggs of the the eggs of the the eggs of the the eggs of the the eggs of the the eggs of the the eggs of the the eggs of the egg

Shu use the shall wrights in lowwep Catch the legiting hold for aurwart endation as the reconverg nutrice for a single and print politolyphe of both single and print politolyphe of both main Hourswep Catch after amprusited the reflective material of politolyphere park and silver aget that howerd termbany open the silf Hot sun dawng insurance with gold on kreat of the endand with silver and present endand with silver and present terms and parts and the sun dawng insurance with gold on kreat of the endand with silver and present

Since See-Cade Init sur drawing, him with its received exposure in the Medde East and Inde In 1994 the Smithcowan Institution commissioned a sun drawing has recently finished a three year rational low Corporations and private collectors also commission sur drawing to price in survey lobated and lang rooms information-water to a

# LONG DAY'S JOURNEY

# STARS

By Marcia Barlusiek

The year is 2010. A cumbbell sequence of TAU sequels panels culted TAU sequels panels cultered fram allow fast of the only endorse of TAU's gettie brained maken where only gover this are request where only gover this are request a million-weft inscher reactor sets at one and of the 400-braining paneerent

After on years, now well Bayers the eggs of an one-bayers TAU will have a provide the sense that and the sense of properties the provident water failshored and to provide the base high most and the sense that and the sense that and the sense that and the sense per face. At they need that the sense per face. At they need that the the sense that the sense that the count of space the sense that t

36(3) intercom-to-measure our galaxy-well sites 05 years (6) with to tocomary mark its obtained well regarant thousing algorithm anna (24) (and (b) algorithm anna (24) (brain AL) being the generation of the anna (24) (b) and (b) and

This mission, if funded will be the deepest, lastest plange humaniens has ever made into interstellar space and will provide a mother lock of astronomical data for generations of astronomics.

The cities of sending a specocoff billions of mices boyond the planets has been around for yeads but it dails incluse around an affertion until 1964, when Lew Alen decide of NASAs ale Propulsion Latoratory (JPL) in California, obcided to invise the concept of auche and the organize a statistich learn and study the do deel project, he chose the husband-and write team of Aden and Marjone Menel, both space scientists at JPL

The Menels decided that one of TAUs majors would be astumetry the ungla manual art and science of plating the distances of opiestal objects.

Currently astronumers can heaving product databactory to size close to the sum. This then strey use a mangualtion mathics: They plot the position of a star frain one poem in Earth's obtained, sucmaths later frains another point. From maths later frains another point from their sponton within against the consult background. The shares the consult background for objects and the same background for objects and mathate tarther out. They have to use a complex chain of theoretical summarizers.

340 would extend astonomys yantable beyond the 500 Hightyean Irm. Our in space 74/s hillescope this conterprece of or payload could take am at a sarwhile is similar instrument orbitrig the each old the same. From these two vantage ports parellex measurements could be



The TAU masses Tapping the light tensestic

done even into the next galaxy 2 million light voars away

Asturately will be only part of its mission "Sciance will be done horn the moment TMJ is launched says Adam Marral Artendy the proposed masson calls for more than a done respertments including a search for gravity waves and the fest sampling of gases and magnetic helds in undistance indexsellar search

Nor the end of tails gain 124 would sproach here inner edge of a distant naim di assas called the Oart Oautoncrewed by Duch abstormer Jan Oort-where immersible churks of rock and cai amanate tram the left her distant solar system are supposedly subseed the solar system are supposedly subseed the solarised the wery now and then a glavataneal nuclei form a paising alar lacosis how es obtig beast and lacends them turnting Deword the sun. As they obta by we also here as failure certrats.

34//s telescope would be able to study the althoustees of Cont fragments in place as they moved in front of langht aix feelds. These shadows would let astronomers see the axer mass and emount of material in that cosmic refrigerator

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# CONTINUUM

# WHO DAT?

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DF machines were developed and ere manufactured in Alper Anton equipants with the indicating matching has been getting at learning in Neutrington takes. Although DK housement has been at another in Algorithms that allow brould at the by the ond on the end of the takes. But allow brould at the by the ond of the manufacture takes and instances to take takes and the manufacture takes and instances to take takes and the manufacture takes and takes and takes and takes and an element and restances takes. For Parssone, Watment concurrence electronics remos-Scrip Parssone, wat-

There free is particled. The recording including values are brained compares to request their all DM machines imported into the United Basine include a spaceal creat thet workfit metric of importable for the machines to record while making allo patch for recording including clinical states to the mitors of dollars the includes comparement—in the basines—in mitors of dollars the includes comparement—in the basines—include to basines with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with DMI legal includes the patch of table to basis with the table table table to basis with the table table table table to basis with table ta

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Its attuites the future of DAI and other recording technologue on the texture, we will as preserve the crains we also fraveplande by every a subclus checked in Michaeling on 2014 index we downey and declare poor is threat to the Nach and well as the subclus checked in Michaeling of the Sach and well as the subclus checked as a subclus checked and well as the subclus checked as a subclus checked as a well as the subclus checked as a subclus chec

## CONTINUUM

### ROLLERBOT

There are soloals that can some direke models that can drive access even robots that can play a semmessed able game of thing Poing But now thanks to a point of researches than Can engen Mellon University in PIEs Longh thoros a roller stating indice their can indep the bai amax even if you thy to knock tot files fee's

The basic secret is a advance program developed by Comrogen Mellon good student and continential light in Patrody. The program advances are needed for the student and affortunate to quickly and descretion. If you control advances in the student advances of the student and the student advances of the student to a space of the computer advances of the student to a space of the computer advances of the student advances of the stu



The value skaling robot Foture space station works/?



centrame-cash core beights 1" with a set at 1" III added only to be provided way

will keep it from actually future rear

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-R4 Lawrence

#### COW BELCHES

Sciences have werned that the influences geothrouge offset could substantially researching the interpretation, subtrain macase fooding and other catastrophics Mappy respectives have attributed the problem to men-made polyarits that there interest national ball Univer charms: Sharwood Rowlend have paralities that Univer them so Sharwood Rowlend has profiler thatby Coal are paralities to State.

Melhane gas complutes to the generatouse effect and huge amounts of it are belicited into the stimosphere And uthrough methane a by product of decay is

released from rice paddles taximps and garbage Row and anoutesector Dorado Bake beame mfaceceut inclose on the word's burgeoing onthe oppulation "Each obe pofaces regitive one had point of methanies o day the other. Need Stere are about 13 belien cover in the word enceght to rate the orthe temperature by five degrees temperature to five degrees

Reveland admit that controlling methanin ladan conbackness could be impossible. Still we new to be conowners A shis of people follow. Alted E. Newmans dictum of What me work? But the most important peoplem we have other than avoiding nuclear were to the way the atmosphero is changing.

44 CMN

## BIRTH OF A

Prenng 12 biology years back into galactic history as transmission an Barbelay have descovered what they ballion to be a young galaxy aborning in this preasy of avaiat choud of consord hydrogen histo times the sare of our cart Miley War

The astorocress led by Hymo Sprinke used both is do and opposition used both is any photosterial light descrime equipations in hurit for ever more distrative phoness. The one known of hostly as \$C 3281 was pripertited by donlying it as the outer of powerful inside wave arrays in the form of byte.

cloud amits its light in an ex terrely nervow range of the epectrum buil as bright



Hught Scineehinn out them a galaxy is about to be born

ress equals the lobel duport of roughly 100 billion surs while is stars radiate as much light as shoul 1 billion surs the abbonomers say the relatively smell amount of stars gift indicates that the obud has yet to form the built of its stars, they add

This is a half theoreticans ind you a torming palaxy about ook like Theat a mass of onced gas about three hundred hundred hyperty acress with satisfy gitte statisfy the Subardy atte statisfy the Subardy attest attest at the Subardy attest attest

The work at Benkely Inched by the Naxonsi-Soance Poundation is part of an effort to carlly galactic exclution and resistually to disativitiva efforther the use error will carling calepoin in fault A public polepowerful ratio energy Many approximative polepowerful ratio energy Many approximative poleback holes usually produce to buil (the energy what caused in block holes usually produce to buil (the energy what caused in block holes").

-George Nobbe

You do not believe your first sygnty what you see hem" Manhai Exerce

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noment compared with

-OH LANSING



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### A NEW ORIGIN OF LIFE

In his laboratory Antonias dissolved husilike into com pandia in water isituated with carbon closele than expased both to ultravolet Bicataon—mitteforeg, his signcatacitores in the permodual roces and atmosphere this closely eavies can man

even things of no great etensic ment like that char in the carrier have a vary good chance of cullisting you and me it doesn't seem right does it?

- John Hartler

Nothing is more tamble than adwity without insight —Thansas Carlyle

## CONTINUUM



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#### REVIVING DAEDALUS

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In the MIT vorsion of the

currey, a single perchang pi tot wit take off from western Date for an av yor unvarted landing ste. The accurat called the Deatakeur hand made except for pedials and genrs; has a wingspan of 112 foot and will weigh just. 70 poyntis

The Longenity cent in currently being assumities at Hean scont Field in Concord Manaschusets settloart anound \$15 million at London the Signi which takes to work? Incords for human powerd hight needs to solvered hight needs to be the Magazing Concord powerd hight needs anounding Dates Letternie anounding Dates Letternie to be kitter of the Datestice to be kitter of the Datestice to be kitter of the Datestice to be kitter of the Datestice

"The concrete world has stopped through the meshes of the scientific risk

Name of the loss of the

-Sr Ranos Galtur

#### DOWN'S SYNDROME MICE

Scentet at Johns Hopkins have bried a strain of mich with Down's synchrone—or the rodent equivalent. It is the failt the aregoine has devigoed and analyzed an animal model of the huthan disease

Initiativitiase Joevins syn diome is caused by an existin copy of chromosome 21 and marked by menal issue describers tocal derigate mort, a daminaa much like Rohemen's disease and aally dawit The most bred at Hogiens possess an exist copy of chromosome 16 antilegoes to the human worth liter

By studying the more the highest managements happ softwalk down the individual gives responsible for the virtual manifestations of the doesnor. "If you explore a given time the growth and moute embry at will grow given time the control game into a moute embry at will grow given the mesh copy of saft that one given in explore Paper Reverse in stankowski. generated who is part of the multidisciplinery team. Thy studying this embryo at every studying this embryo at every listin a normal pattern of development. You see if a certain population of brain cells makes too much or too kills of a neutraliansmitter.

And backsare all humans which Develop synchrone de visige Annexame is deseited by the age of thirty-book, we about the age of thirty-book, we about the develop the herespit to reverse Downs present to an annexame to herespit to reverse Downs present to an annexame herespit to reverse Downs present to an annexame the age of the annexame herespit to reverse Downs present an annexa begin to an annexame the age of the age of the hard power to annexe be age of the age of the annexe be presented an annexe begin to an annexe be and presented an annexe begin book and to book as preference to an an annexe begin to an annexe be and presented an annexe begin book and the annexe beam of the age of the annexe beam of the age of the annexe beam of the age of the

-Judith Hooper





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SABOTAGING THE GYPSY

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What kined the tankae Wood found out, was a wrus, the resect carry. The spin toolo wrus remains do mark most of the three much like the horpes simplare wrus that causes cold screes in the most of sc A solution part to decover the remain fail toget and to control the taget math which is all all all lates as we'r her taget of across of these and toget of across of these and toget and the nonfunctation britted States and is spreading to dear tractom

Whold also kinks at the Bryce Thompson Institute for Plant Passarch as independ ant Institute for all control university tags the virus a bis only the Northeast would be wough the Northeast would be wough the Northeast would be wough the Northeast would be have any hardwood have the has found that a least whe has found that a least cold and one insearch and an annual set of the insearch and annual set of th

### THE BAGGER THEY ARE ...

The mough approximation of the must meet standards lad down by the American Sociats for failing and Malarskin Dana Lowancian of Ulah State and LaJoan Lawson da the University of Newsola at Reno suspected that som bras provide more support than others.

To find out 39 women with cap water time A to D paget on a traatmilline water of eght sport taxes as well as lopiest Xs were marked on their bias water for a mitter bias water for a mitter bias water and notifie in the capite-and directly on the classes and a mitter bias conduct by limiting the women as they are the conceptions were change in distance between the live X s as the nipple X bobbed up and down Longstoon and Lowson

band that in the rule G and D-age women reperienced biomechanics' broast move ment there women with A and B cups. This was consistent, say the researchers with the greater amount of exercise discombini reported by the fuller-fuller-fuller ownern.

When a carrie is support a humba up water is The Destrone Support Too with an Iam Manne and is account and before breast support and to The Lady Dake with a double layer outps and double layer outps and the for the subrage assess who areads to have large toreards than the all refer and thus requires more support layer (Lorente)

Bra transfacturers are lettership. They are elegady incorporating some of the dasign features we sug greated says Losentzen —Paul McCarthy



Powers for enter

## CONTINUUM



Sect 14 St. 46 XX. A Bayelo (accord) type of chall could wrive at a quasi-apace (table) if Rted with several abolying porta

#### RETURN OF SKYLAB?

What's the rest best fring to the projected NASA space station? Skylab—or more accumitely Skylab 2

According to Phate Banks former charging of NASMs Task Fronce on the Scarthife Uses of the Space Staten to Uses of the Space Staten the space staten as its new plannad weak to be fore much foolitation "Space scansesail would outline tory years before I became washable. The space statent are statent as the popposes sending up a simple angle and answ mode as child statent and and words a child statent of Shelot

Banksis Skylikb 2 would cost about \$6 billion take 45 minut Here years to build and would be listenched with a treatry lift whiche. The tacking treatment would not ball a carbon coury of Skylao it would most likely take press docking ports in the the station could be expressed as required (much-like the Privat Mir station).

Why go to a Skylob type crist-when plans for the space statem to animal procession way? A similar less workd probletly be man witable to be scentile contrauntly becares i societ gat the United States back into paper quarky. People working an man-reported working an iman-reported legat to speake to do some ting, the says. There's a letterodous weeth of new letterodous weeth of new letterodous weeth of new letterodous weeth of new letterodous weeth of the beneficial technologies and the new to be fusion status beneficial speake status beneficial s

## SECRET ORDER OF

Wrat began as a taikinn writing find mp led by University of Anaona reading i rotherator. E Londolt Dadieum teis Jamed nita is student group caldo SONE student student in dioues) Some people tain up ther net: says SONE colourd er and wildlifs scology grad uate student Doug Duncen but they have a nice gamy tazte—bite qual!

Lettern divelens who web to per the ended of Mvateres eaters should be losswarned, third cay nate, which are indences carriers of devices do not make headly contexe head raise however are soft to and if popenty present may be more there with the approximation of the soft of the mapping says. Linewenty of Arction methods if during the Water Cohen. They re just like with Demon-chemican

Professor Coderum agrees "I ve always taught my studants that animal proton is proton. Some of it is in little packages—like mate.



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#### HIGHWAY REPTILE MURDEREAS

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To measure drivers into them 2000 and the assurers placed take involves and uniters in posterns where materials would normally let them 1 free controtions where characteristic from only doltecasely. We sound the white softy essent placent of divisors lead to avoid the ammels so process work cut of them swy to hit from—with subject soft in them—with subject and placent takes the soft environments of the soft environments of the soft soft and the ample of the placent takes the soft soft and soft and the soft soft and soft soft and soft soft

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Do people particularly like



And - Texas the article it.

to kal reptiles? Those me the only amenals i alkaland but seasesch in England shows on people these Solophias and over tows "Solophias amount os and in Conscientes and tos. and in Conscientes and task profiles publication of these shows lowerd an math — Sharry Bakkor

#### WHY BOOKWORMS WEAR GLASSES

A few chudes will some wirry hoavy shadas may have geen Joak Wallman and be jean of belogesh at the Chy University of New York fiel find specified areas to to why glasses malfy and a common sight among these who how to end

The main cause of mycpike is not likely to be chatny termeral or orcupational according to Malman who has studied the effects of binding placed over portion of the syste care portion of the syste of a like wide checks its psobably club to epicically unstamuliating tasks such as reading, that vasable such as reading that vasable Welfmark cincles centrel and of course to the segument of course to the segution of the segutine of the segutine of the segutine of the segutine segutine segutine of the segutine segutine segutine segutine segutine the segutine seg

Wallhoot has finite features final maken? boring to postoans of the eye When the eye is facused on punited lead, it must deal with small overly if ammended block and while features their must be temply unstandiding compared with the wido verality of sizes togethreezes and colors in features of the world at large

realization whole introduces majapace and waters galacelle naiacaa that hole also ton ubuc confusions on terms fram a lear maara ghild chursd. We make now more the contraction between second real of more the construction between and chursd. We may also the contract to the contraction between the contraction between the langthed between second parts and the second parts and second

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## CONTINUUM

#### BLARNEY STONES?

Perhaps 10,000 years ago the perketure resolution of the Perventent valley in south acatant California wiref away a good deal of their time backeting vasi store sting methics that are recognisable only from the aria to hols strakets and complex goo methical designs of goralist langs and overlaging heces

Because none of them handwrit can be recognized for what it is from ground likeling the quasition that is trigues Christopher Reven Beain Foundation is why the architects of the gwo glypther, who could nev or see the disagrees themselves bothered to build them is the list makers

In an offset to solve the provide Network event and BOTI provide Net and BOTI provide Network and BOTI begin the year of the solution of the solution of solution of the solution of solve and the solution of address of the solution of provide Network and the solution of the MO and a solution of the MO and a solution of the MO and a solution of the Solution of solution of

While he doesn't fulls cut the possibility that the stones adult have been a primitive form of associative Reven form of associative Reven form of associative Reven that they had a roligious or magical significance

George Mobble



the second challenge power is not all the back

## VHAT KILLED

Remember the pocularly part survice sail left in the units of the Challenger analysis of the Challenger and shared the the subtransfer to the and the and share in the analysis that the the subhouse the power of the soundary to a least one or pert. Leand not the right only costs a supersame may reactive

When P Bekameter a protessor at the University of Wissonish who has studied windta for 20 years inteched that conduston -ther pering new cooldings and proceof the baunch Acid which the acreate with the potential -accepted verse that the right -accepted verse that the right registration that the laces the classifier was laces the second site because was holding logither free sum the shuff be laces that accepting to Brislameet the accepting to Brislameet the caused enough damage to being on disease!

Not surprising wind there recents at NASA who did there own study question his conclusion. Briemmen: is saying heat fram also origin nearing paint of wavitre can stow that [wind steen] can stow that [wind steen] Lagge Lockiens saver make misiger at the savere otherme research program at Gooand Spake Damar But he devised his data from the people claver at Houston who used single plume analysis don't agree with tern 1 minot saying Brissmear's wrong but there are a lot of quest

Lucehise partian though the NMSA must upgrade an instantiagotal determinant sitio pagnoss "They need a setting that central system and right near they don't have one of don't brench have one of don't brench they approximate or proting ansard applicant they apply when you is there they apply when you is the they apply -- Dones Inne

Modern Mars of homorphy madvaled by MacConc mappins that we carried help responding to others as all mar-abates—aincl our dwo west being mococided and smultisteepuity insingative smultisteepuity insingative smultisteepuity insingative studied up for object smultial scene later time

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A man pari no more possess a privide raligion than he can possess a private run or

-G K Checkerica

There is no excellent beauty hat hath not some drangeness is the exception —Emerge Remove



UFO abductees claim that large-eyed, gray-skinned, four-foot-tall aliens are confiscating their eggs and sperm to create a bizarre race of hybrids

# SECRET SHARERS

### BY PAMELA WEINTRAUB

B ing out at him in multiples from the show care and was a hearing lace promit

d on nune are opti or wrong? he chas-

that day, and for a ioon time allerward he says "are two very formel military to-Bruce says memores fooded in like unes Their uniforms were homogewater rushing through a folloin a disc ' repus-being from the neck up and

PAINTING BY GREG HILDERRANDT

Syracuse New York Bruce was of 1978 it seems, Bruce had been drystammed by an everal display of ing home from a relative s house with his backs Employered on the covers star with Manon and adopted son Saven seemed like a low living plane headed in

Exe whole whicle started to overhead "1

A second later, Matori looked gul the But a napging sensation-one so hor- scream Brace looked the doors, soled approaching "What appalers in my mind"

By this time Bruce receils. Makonic her seead of up. So she's roting it down, these locked She's getting very mean almost like other scheam I spin around and oh, my God first staring into these humanocus eves I'm transfoord All of a sudden I fear She's just walking along with this gus, sort

According to Bruce, he lesped out the door to try to get Marion back when three more founts summaried htm. My server dian't want to risk going on that ship, so i I would have evidence I could take to the authorities. So I pulled the seat forward and been poked with a hatom

From that point on Bruge spire, every family returned two hours later than experfect As far as the 'experience' was

growing number of people who claim to be down from the skies to take them every extreme Biopsies fater appearing on the Transponder implants that enable aliens to track they subjects like caribou are n tees contend is a race of human-alien hy the unknown reaches of space. The try

54 CMN

a wayward glance and run But those days workwede, in countries from Canada to ence What's more the strange details they panum up-from the appearance of the abdactors have raffered a severe up speekable teams, yes Most are overa ritate of standard mersonality and intelabductees are prazy can be unequivocally

Emblazoned on the cover was a haunting face oravish skin, pointed chin, receding los and massive, dewdrop eves The evens were the color of molten basalt?

nowerful new religion one sure to supof science. Others, including more than a

that way to Weillivet Massachusetts a quant Cape Cod town best known for lishino boats art gallenes and vacationing Wallfood a lessor-known treasure----a state takes acid a sacred louch to New York City's Guocechern and Whitew muterim and some of the best art galaries in New York Hopkers has to chile workerd illignments with permore and own-will if not wild to their currageous claims

When in Walkheit this other home is in

sac. While other houses on the road are out in waves. Hopkins's paintings-paint orbs that has a transcendence, the cosand/as papture the vew of a sweeping and engel-laced he exudes an earlier

That's a relief to Bruce Sitting at Hop inted, besed mancured, the first-bacyear-old upstate New York graduate stamaily happened "Bruce and heli roly obombarrassed and at odds. I could be hew-

standing Braza reaks can be gleaned, at back-the lettered complex terrain of the LIFO. The dawn of modern UFO history is Arrickl was fiving his private plane near ported rane bright objects that moved fake 1 200 miles an hour Thanks to Arnold's de

next true UFO wave decinit grash on Amer you shows until 1952. On July 19 of this year at new PM priots corning into Washington National Amount reported unusual objects and lights cavorling over the White same time the objects appeared again This time liteach, they were briefly con showed up on tadar The 1952 sohtmas

Then in 1954, an extraordinary soft prooutside of Socorro, New Mexico, conrest J. Alien Hynek, director of the astron-

As the late Hyrek explained it called

## HIDDEN MEMORIES: ARE YOU AN ABDUCTEE?

And the proof operation of the proof operation ope

 Here you ever had a captory of why you training to be an unidentified flying object?
 If you prosess direction for event

2. If you answered question 1 within you you reported the signing to

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Et any local police age

CI. Steinews media

(D) any owner LECrospanza

E) none of the above

 If you increasered quarties 1 with a year, does your required of the signature galaxing assert to base odd, gaps in it, will your restriction of the signation do not form a culture with wildow?

b. Do you have any strong for sacringly unexplained reas of particular places - an stretch of highway, is come, a level or whatever? \_\_\_\_\_\_ Higo, the contor the the local car and the restare of your half.

 Have you over expensioned an octo displacement in which you kand yourself imposes by it is powled from entition when you ensember being only exceeds belong only exceeds belong only encodes belong 7. As a news, unit you every tame elsenge light tame, unit is voudent the commit before and the second second second second most provide the second second second second the second the second the second second second second second second second the second second second second second second second second the second sec

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 Have you men suffered form an extensively measure and an just investigance medical publich bits advantation and approximal time advantation for symptome? T/Have you or your special cent represented or structure (second cent programme)? — — France, place.

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9. How you even have house houses using ing how in system houses houses houses and an another houses of the construction of a point material frame constructions and your resolution at 28 How point even (construction) houses there a construction of a house and a point of the constructions of the point of the constructions of the point of the constructions of the point of the constructions of house any interface of your strategies how leads of experiences or theory allocations of the point of the point of the house of the point of the point of the house of the point of the point of the house of the point of the point of the house of the point of the point of the house of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the point of the house of the point of the point of the point of the point of the house of the point of the point of the point of the house of the point of the point of the point of the point of the house of the point of the point of the point of the point of the house of the point of the point of the point of the point of the house of the point of the house of the point of the point of the point of the point of the house of the point of the house of the point of 22. Which ansees best detecture you gut lockings about UFOS?

A) Mary UEOs are physically real insects, maybe docation-winal in order

missional entropy of parts, such as played and stars, but i accord that possibility that some of them might be extratemental.

C) UPOs are always while that are millionized objects, or the inversions of overheated imaginolouis. 23 Which access basil deaching your

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accounts (we head about seen gatories and Laccept the idea that such things calc and do heppen.

B) These storics assered just too implicable to accept as true but 1 carries abeckely risk out the possible that im wrong.

 C) Learnet accept these account as anything other than hoeses or the products of some manual abstration.
 24. Have you

A) as a perior interested in the subject read more than their books o articles about UFOs in the last year?

By as a casually curcus persist, said a lack or two and perhaps a lee atticing on UFOs over the past few sears?

G) is a service who regulation subject in sperioes, their is also reading anything about 4 at al? (D) it remotifying about 4 at al? (D) it remotifying about anythin, 25 Which arcsee best devices you search 10 the operangement?

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PERSONAL CLAS

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- If you would live a time contacted by UPT investigation. Brist Hopkins or device (investigation Brist Hopkins) and tabletes in the space below. All names and addresses will be lived active our off-out-all. Since the revolutiontation will be appeared and the prediate of the spectromaking periods are at the time representation of the same that them y relipiond and will not the toyold a period in spectra. men come Zanova had been change a process out of the transmission of the change operation of the transmission of the change region of the set of the set of the transmission approximation of the set of the set of the boold are there have been called a change approximation of the set of the property of the set of the set of the set of the property of the set of the set of the set of the property of the set of the set of the set of the property of the set of the set of the set of the property of the set of the set

By the mol-Batties UFO propenettis postelo to obtant das optimistings, indat constructions and physical evidence that autoprotectly bate hord. The Ar Force in its cam some of investigations, declared Virtually all UFOs government meetings waither balances, cloud hamatens, almospheres ghearchers, meteors planes, and the like.

The second secon

In the determine of the typical tables one-page doe occurate tably offerent hom the rest the asign of Betry and Benry Hui Barry was a tables, poor diffice which and an officient in the New Hempdrine NAACP Barry West a which works which a straburd from a wacation in Cranada tary inportedly new which works the strategy of post from a wacation in Cranada tary inportedly and which works and the Hills remembered until New Name Sets Anter way found themative 30 miles factores

man Lonne Zamora had been chaoing a down the road without any idea how they speeder out of town in broad daylight when had cotten there.

They began to have bad dwama and Indely wet to see psychiatric Beganni Senor, who and hypother regression to being them back to the monitorit Under hypother hell-like said that exclusions that an equidation to have they are a spatiated to the orabit, where help were separated to the static were help were separated to help the said that the said that the product on the same of the said that the needs to the mode said that the same of and raid samples. Barrey damed they look a sample of this sperim

Like most ofter skeptes of the day Basel Hopkins, a young artis sighting his mee between Cape Cod and New York Cay don't their investor of his sary but end sky in 1964, while driving to an attemport party the robust and the same share of the same the object amply accented oil, despinative of the same same same same same the object amply accented oil, despinaing in the clouds.

At the party Hopkins discussed his ex-

61 ddn') want to risk going on the ship mysell So 1 did samething I'm not proud of 1 tried to send Steven. Should he not return, I would have evidence for the authorities.<sup>2</sup>

perence only to find that other guests had had similar sightings as well. That summer Highers bought a couple of UFD books. And overy now and then he boought the subject up at a perty.

But the interest in UFDs calmt executy, unit 1975, when Gorge Offsekk came of 1976, when Gorge Offsekk came of the bacat atom across term hopkness Martattine town hoose had a agging of the own T welfved in toget a both of Sovie or chever T Mayden mostlar. And I bared Goorge pacing back and torth behind the cambre offware/ Mayden mostlar. And I bared Goorge pacing back and torth behind the cambre offware/ Mayden mostlar. And I bared Goorge pacing back and torth behind the cambre offware/ welfawide A men can be driving hanse intelling the own back most. Offsate/ bread, and something cam ocress dean out of the sky and scare hem had to calmt.

The aboy he then tool Hopens was mcrabble, to any the least O barries load in North Bergen New Jerseg and as was he heat. Hed been chiving his car impugh Neith Hadden Park on the way to us allight chief in Col Lao after wark. As he present insurin's park O Barrie carb was any a readed to 30 fold-mg short paramdebelef as a neurow speek opened to rease a ladder to war he ladder a circled some ten humanike liquese each three and a helf to four feet sil and weening in onepaces light obliened gammer. The figurase carried ipportive instruments and comtainers. Offensik clarmed, and proceeded to collect samplase of the each instake of four immutes the shange individuals and their craft weak game.

Hopens investigated the story, bund live construction of the apparent calify in the occupants and the apparent calify, and publetted the tincings in The Metge Voce The Wore story was reprodued in Costropoltae, and Hopkins's structure—as a UPOlogis—way of the stort.

Den back hen higher was aware of the sake of massing line O'Banki, who charned his sphirtig lashed four minutes has maintain of the reas a charle of the sake that his world hime on any normal right. But is same ti unit 1977 for 14 hours coundaired a propositioue notion Wast if UEO witmesses were loong tack of hours even days because alives were absolution term. Hen forces there to house?

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Encouraged by the Diffusion example, Encouraged by the Diffusion example, the both propertaginal Application of the Control to the State State State State State State States and State States States States States States and States State States States States States States States State States St

From the depths of hyperces Kiburn explaned that while dweng here on the right in guestion he of grown increasingly draway until he feit his car turn vicently. Take a hype magnet just suched i over to the right. Looking up into the sky he noteed two stange lights. To ease his fear he will of the car serve and stemped out. Waiking down he rored a bit he skid he met with barro I we key notwocals including one who seemed to be the boos. These hoos were duil chalky what " Ke publy he told Camar and their waihut object oges dowed of pupils were huge and leyuid black. Cae was bending down digging in the earth.

Picture diso incode in elemps - shread like an ami allered los in griff stabilito Affins pour la leido Charten free was towing periyed all on the creatine used that an formation of the stability of the stability of the formation of the stability of the stability of the formation of the stability of the stability of the concepting on tability on a source intravient anyon for the stability of the stability of the concepting on tability on the stability of the like in the stability of the

doctor now louches my skin under theil leg. It leeks kinds rough. Something else, something: Cirty' might have high pened, Kilbum lold Hopkins offer the seasen, but he culd? It leaks?

Kitsums story shook Hopkins to his roots it was nothing I wanted to accept Hopkins says. You it seamed totally roat What smore, it seamed to fly in the face of the technical stockarton summor salitieties toothing at shakers and salities. lahad by Batty and Borney Hill Instead of remembering portices of the UFO resterency exmossion at the Hill Brack Mithath had Issally suppressed his expensive This opened up the possibility Het the expressed in others, Hopkins explains, and their abdiction was webservised.

Needs and lawyean appointness gatneeds as new low home work boom fughed all more people out of the wookwork, and as time worth on after patterns energied. Perhaps the most chilling commo decrementa, Hapken Salamed with fut many people clamed to have hort the so-called abduction experience all least here and of those, almost all had mysterious soats.

Take Wrgmes Florton is compared in larger who saws should dissipperand in new her grandlators famili southern Wahlbook he ago of as. Should reappend an isoan hear with a lange, straight cur on the book of her call A cloade seen in 150% referred a similar excession in 1 herbitst. Call of her call A cloade seen in 150% referred a similar excession of a herbitst. Seen herr and Heybern about her obsidered in seen and Heybern about her obsidered in seen and herbitst world.

By 1981 Hopkins and Classer had worked with 11 abdoctes As a protosional psychologist Classer As a protosional psychologist Classer data (perioularly beleve that bons fall sticks were coming to Earth Showki interested however, be host classify indireming excen-



enose which both myshifed and distuited term. I dark of the dary chapares among the subjects into any isocholem, nor any stronge habts or enobe pervisions. Elle says. Most were autorited with this chapare do careers and rebaively successful. In a sense the acids, they were run of the mit people localified no ommon thread that teed these together—offset than ther the's exercises—and in a common pathology, instead, no discernible pathology at all

Carera darti eder what to meleo the googa no dd to sentro impore a mitepetagio no te in resultati importa i dar importation o te in resultati importa i dar in degle lo subject om advictates lo an indeglechet toutier of pipete who aven duration ablerty tool pees who aven duration ablerty tool pees who aven duration ablerty tool pees who aven duration appear to it these simonypee. This how any was any improvement of it fait tool in tool in spectra of all dark tool in the simonypee. This how are was any improvement of it fait tabil i lowed support who hard das it tabil i lowed support who hard das it memory and the sind of the simonypees.

So Clame and Hopkins were thread and moules New York populational kalakah Sakar and sakad mini ginu premitosi tu, sakar ang sakad mini ginu premitosi tu, sakar ang sakat mini ginu premitosi sakar ang sakat sakat sakat sakat sakat sakat ang sakat sakat sakat sakat sakat sakat genes hadi hu tamata paputapin nakat sakat genes hadi nakat sakat sakat sakat sakat genes hadi nakat sakat sakat

After comparing test skely Same econtrol that scott for one period ---a schoother is control for one period ---a schoother is control of the period particular provide and way except for particular provide to be overing semitivegaranted and update de same. They wave cancel has not period and they drived a growthen semigra radiagnee and a personet more the

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To get to the bottom of the claima. Hoplans and Claimar also sent ton abductees to Donaid Kien, decolor of research at the contraute control of a



# **FUTURE TOYS**

100

BY JESSICA MAXWELL

In the faith date is in here existing a second seco

PHOTOGRAPH BY PETE TURNER

tomature. A toy reminds an adult that there was once a time when he or she was await, and wild just the way heaven intended us to be Toys are made in heaven, but the batteries are made in hear.

Actually fluid likel into was so good free gave in to Debra Winger Noretheless in accurately describes the ambiviant nutber modern technology and the incident child who noticely upsets the maintaing analyses by embraicing something as early as Catabase Patch Not.

Right now we've got locky been that look at you while they fail you a story dolls that ask to be polved up, toy watchdogs that how a initiations a genre of leag payed with light bases. The stores that revels lock to line by gens at bad guys, and children's home move exits.

What will come of all this? How will tomercow's toy dosignars fuse advanced technology with the decidedly divine iniliate bas? And how does a low-roch retable ba? And how does a low-roch reporter pin down today a whackaroni toy designers long enough to find out?

How about a part that outside make you draw better?" of less Rabert Fisher sensor manager of product deage for Fisher Proc of New Yosh. Yoshing Ying phone coll. I hed esked for Robert Fisher, and I had been grean Robert Fasher. I had no uses how body laws.

And shoes that make you run fast?" he commutes They'd make you auternate cally coordinated too so you workin't hid down And I ve atways thought it would be meet if we could step into an environment we could control field the change of sea tons go under the total reperience balate and amelia-meet -vision. The fauther

Locate interventions the time my day took us to Hermansenii in Holywood back in the Fihae. It was a providing new type of "assent accompanied" move This one was a documentary on Christ. which is a series of Christ "part and each drouhours which on each or heads wandback. the autience screaming from the theater out onto Sunset Boulevard

The advage worked to but a case lack down but this dangerous comptoy por could get stapped into the other and when the monotoir mage hull youd annot through your whole body. Faller gost on Barg on and on and on, little learned was the benef Bart body them and a flag rotter you case and in they may have a meaning on your case and in they may have a meaning on they cust a more dangerous Jupp cases.

How albuit superiocelerators for koldlease? Di occurs i would be initiad by how fast you pical and i would be out to be abdem sum-say live seconds to get you up a hit And Thrik minaturation is near to wait be greated base a least (my laudo system ba kold--Im takes could have hap be one kold with the most program and all the other kold in class could have musba apartones that week horized up.

PEE-WEE'S FUTURE PLAYHOUSE

#### S Maujo L ~

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Just draw them, push acres builted, and they are built in force carrons are

Phil Trumbo Dessolve of Annalise

How areas projecting the whole Repetitions have place ansated the check whose watching? Novel have your into active stores there all replace and have were specified with the activities were specified without all they could have only addition activities, all they could have only addition activities they activity would have been all they activity would have only addition activities. The society would

With the saved, hough prejector, and heapotation. Now we and the Exploses optict go meeters file could be sort to the west of the little could be sort to the MoGathy hearings. They mgfr to scened off, but por of the big same or time travel is that the little travel is jusced with the

What are luker love going to be? Perhaps we like reyons: Garba dob — Barbar duke that can bond love #1 coold have one wish for the fillers Amonto: It would be good to 0 rejension 3 U waking preame. That is a time remittee table work has what is wait to see Buy 3D provides by holograms has been int, car intratis or the fits obtaining contain or advecuting or all what the vector or advecuting or all what the vector or advecuting or all

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Why? I ask Tari't this your family's company?

New, Fehrerrepies, Norelation But it does get me better hotel rooms

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Thete what lover Taylor cays. Has the former VP of neglecting for LNN vs. a New York-based company this offens a torns werean of Photon Entertainness to a host lich armaniant center Physics psy 3300 ex works accurd. a \$1000 sequent lost mass in 14 pounds of space gene to second a with lastic game approximation on a and the states game while heaving or vade one with lastic game while heaving or vade one and heaving and second on the second one of the second on the second on the second one of the second on the second one of the second on the second on the second one of the second on the second on the second one of the second on the sec

I prove how a specific takes "Specific contractive, the same, Third's area thing contractive, the same, Third's area thing done with their in the syn calcular, same and the same same same same same last. "Mapping the second same same and the not sum have been taken and any same same same same any same same same same same sames." When of our been same same sames. When of our been same same sames. "When of our been same same sames." When our been same same same same same same same to call tably (saddatas the same same

Wernersboy a duck<sup>4</sup> Its Nach Kelweit interreg my cal-Nach of Antok Adam Davit Joshta and Nach Kelweit the twobother by design team of Kacom a Naw Jensary-biased company. The bertheres and imagnitive powers estiblishing an professional equivilian among the comprofessional equivilian among the companies They disagned Oacles (two-nchor 004) high body dails] and Socialm Junitedbody dails] and Socialm Junitedtion and tack to the nearest will for LMtory. And the Ventilse. Now La add Weerm Winsky and Wile "How bag and "Task wyny burger solar add the concept Nash gets copie cask Alforstall. In Nash "Op Law with them". What are flay in "Nash you share they keele include" "What do you do with him?" I have any with them. "What are flay they adjusted with "Task and poly hey adjusted" "Mar addy, negotiational they want with "Nash".

Note that to do to a business messing with the trothous, so the says which call meback. Bother naveyus call Marvin Gass he says. Hese the bagainst by Ward call Eddy Collator Hes been avoid Joness He inverted the chaltering therefor-you invow those taking detruces Jack Para at ways had on his show Eddy mouts add thaten water of any family main Eddy You should call hem.

Eddy Goldfarb lives in California. But he

 If you call a toy company and say you're writing a story on huter toys, sivens and red lights go off in secretaries' heads, and voices scream, IDEA THIEF, IDEA THIEF.<sup>9</sup>

Minimized bialant lower the neuron location interrupts it was explaining that if di heard Minimized Bials was the bagged independent loy designer in the country. Buil If have Rouben Tetrain or Jett Broskowreturn voor call sitte saint

The phone rings II is John Lindsay. Wang, in up and coming independent lay dissigner based in Las Angles. He is co founder of a menagement inn called The Design Collectione Hes worked with Color lottes, which Naah's father Heny owner. These gays are oncod. Young conferms Definitely-created.

Young has also worked with Matal Taye Theresbody is trying to period a bulk refeactive floy. 'Yaang explains.' One that essponds completably so both the chila and period some source of the chila and theremicannees. For sample sometime has herein you play tay with if that could have help on play tay with if that could have help on play tay with if that could have help on play tay with if the first wave help on play the source of the same wave help on players and the same source of the same source of the same source of the same source of the help of the same source of the sa cial glasses to see it. Ike the Captain EO wateo at Dianay World. No, not twenty years from now—no special glasses.

Using tail were hologomen network of type dronal tays mended Yang of the Bestburys deer. You ien is noom and you can been at stylead a put water – a drene a pritable i atter hough the sim do a sitile Rece Pan light in you com. Young were Cr Mile Retre Pans could by about you. Sothe charter has could be about you for the charter basis of all discover and the charter basis of all discover and the charter basis of all discover the Normal were all basis.

"Or fats breaks up with you you could still have dimer with her. To far "Or throw darts at her and say all the litings you wish logicities and to her but never did

Or change her into someone new bare sein with a worked laugh. No really history years comparing programs will let you dragm 3 D play companions. You won't wen'news a compare You'll you be able to their a comparing and he or she will appress—30 buyking dreams.

You warna buy a duck? More precasely. "Nositwarnashbuyaducksh?"

Noah: what are you exting?

Committees he says "two up all right And after that much beer I figure I need something healthy. Hey I haven't date this since hich school."

His collegits any te doesn't wint to talk because 4 would wate thmup and i milly need to steep the says. But I I call you when I get up

I decide it's time to try the commercial tay companies again

Promise on the constraints of th

Load Acknowny in Charakweth Califoran creator of Rocky Paupon the works final ammeted taiking lay. The accelerator sign characterization was presented and the second state of the second state and the second state of the second state and the second state of the second state of the second state state of the second state with manufact the second state state with manufact the second state second state the second state second state state second state state second state state second state se





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Playmetes Toys Inc. of La Meada, Call California don't return calls either But No of video games does. You're probably going to be creating synthetic playmetes nada contectant-maybe mommes will want

Tony Miller vice president of new busi reapots, eorees with Bustmell. For a long gent, checkent surrogate playmeter he sevo "We've already designed very rud-

Ever the high tech advocate Bashrell be replaced? I ask. I don't think so " he

scotts. 'A lot of people deny the animalistic

Bushnei-thanks a good itutuastic testos corner of a bedroom where men or ado beroprically the says matter of factly 'We could play a Telesport with a livend who s Telepresence. If you will

walking down the streets of Governmoh Vi-fore Maybe it it be possible to time-travel forward or backward with no refund

Nosh this is a wer'd connection You

The Lizard of Oz? Thank you Have you

The one with the worms coming out of

"No But Nosh how did you guys start

First we put on gray sweats. Then we

Sort's a family tradition?"

Everybody wants lay, a little writter that runs across the . desk Now that could be a holographic projectionno special glasses needed 9

'Wah but my selers a graphic de-

tike a punctured rubber duck, and the line goes devid

Everyone relation to calls while I to reason called and I call him back at Hashro, but mover knew when it was cetting close to the edge" he says and could mow the

with the hit says So Larsen director of

Lorsen Alcherry II is a broadly baned tatos amasament-park tacktes and st-

tworty-eight years. Things don't change moleculation and the second second second tions and cycles. Twenty years from now we'll be looking at artificial intelligence a dolithel dances around the table isn'sc-

Hoks Or a child's magnery band who

bedroom The isd could sign it

Hicks The kid would actually be on the

Hicks Anteniwity loye! On, boy lads

Himmit, we've got work to do

Chesicy Mertal maging Telepathy cut but not through your myes and ears We do direct to the brain

Largen Teleportation Your molecules

Hicks I abl' want my Mercodes, but I

Larsen. Water activities but nonvicient (growing very serious) We have a strong commitment to renvolvert level. Write all

Hicka Yeah hovenno with your geneti-



## FICTION

If there really is a Santa Claus, eight tiny reindeer aren't pulling his sleigh. And he might not live at the North Pole



BY FREDERIK POHL

an infranction of Man, eventor Harry Blasgman. The calendard deht meddel, Larithawing with the second state of the second s

The Charaman balance, the community use produce and legarest handbases and the bolts balance and the second and the bolts balance is they through tageties concerning to charactic across the three theory on our property of the balance and the second second is that has been provided in the second second in the second second second second and the second to the second second second second second to the second second

Hinry Stergman was not an arrotater member of the commany of Mars opticers be was nother a second/frequency and ecologisat, and do he have any of the special adult toot makes the loss of the surveys have toleration—or elesced—like load chemist, power technication, or mole. Steegman was a construction engineer. That is, he does insters, he does interesting knots of tectors.

> PAINTING BY MATTHIAS HOLLÅNDER

as two or there solar-powered ones that When his services were needed which wat less and less often as the carden and and explore new anomales the courtoa television screen and commanded his tractors by remote control

it was like having the world's brogest-

munity of thirty-eight, once two hundred

Since there was no necessity for much activity of any kind aremore. Steepman was and it cost nothing. It didn't cost the commust valuable working the because to do Redeton sickness in his case had attacked the parvest. He was likely to scare Since the clocers were nine tenths autocredic be couldn't do much harm them But delicate as, say changing bedgans for the the turmeler there were stocks far beyond any reasonable expectation of needed tuni to slubby newsily cled tools of radionuclides There was also plenty of lood. water, heat and light

The community was maily only short of threa things. People Purpose And hope

Hope had gone for most of them, along duct scientific investigations. When the decre topoled off its yas of thrust it role of the rocket wasn't the only thing that went wrong Someone unforceably, in the Instto rush to salvage what they could, had brought hot piping down into the caverni someone else had hooked it ofo the weller ing powdery tisson products into their diriking willer for more than a day before someone alse thought to put a dosimeter in his collee cup

By Iten, of course, it was all contem-

rated They could be written aware They bold under the Marian polar too cap, only a dozon islometors easily but by then the very guickly

There was one other bad effect

tors machine lought for them most conviews NASA ran with weeping wwes and childler, comatter what consider this prothe repedition was tobust against proce-

Fortunitiely to the American spirit form who won the Witribledon that yoar, and a

6He valls had brought others into the control room Cantain Seemalier periotori Henry out of the way, afraid he'd get expited and knock something over or push the wrong button ?

TV starwise actually wraztikid grazily beam

And thought tarely, I at all about the spalled heroes on Wars.

So on what the calordars said was the Swinty fint of December Henry Sleegmen got out of his bunk, felt his gume to see if mon soom for a lessurely breekdest. He peared in that to make sure Cleater Ser-The only other person there was Sharph bas Barriez, the becthered, and when croweve he saved her Sharon bas Party being, no doubt begause if was Statement Marsil their depatch had read and they anything silve, only changesis that might move star had wrested a temsie grizzly

Henry and Shaon bas Barnary, do back some better samples.

She was looking very and He ate his almost-hash slowly, stupying her, black, patches under her eves, fatique in the set

"What knot at samples?" he asked

She structed wearly "You cook them with the heat of the chill she correlatived

I tried cold took chills Shaton' I even were out myself. I even awped some biarano powder and a cetoretry and-"Don't get excited Henry' she sad

sharply reaching over to woe some scalled cen find a fissure somewhere,' she seed

"Il try' he promised and thought hard

Hotook the deep turnelenthis time, pondenno how he could oblige Bharon bas OWTO He was not paying shot altertion to Sharon bas Raminez part of it worrying about the latest one to begin to lose blood strativ\_schiv\_nein ittin Tony Kanlan\_ when the instruments revealed a temper-

To dets showed I was very thin The arrent patch quite large filed with white-traced. shadowy shapes

Henry Seecres could & caverol could break in at one end, let it cool, brind could want uncocked. He started the chill neler another meter along its course

The instruments told him that he had

Good precise required that he let the usied optical system his could do that Or therigo in person which would take two or

back wikiting for time to pass, with a smile on his face. Sharon was como to be real



## Panasonic Video Update

When it comes to shooting in low light, the Panasonic OrmiMovie\* PV-320 really shines. But this camcorder can do more than capture your child's smile by the light of one candle.

### A Real Show Stopper

The PV-320 has a Yeas of a second high-speed shutter that can capture the excitement on your child's toce as a roller coaster screams down the track. Or put your golf or tenns game on the right track. Because it can capture every split second of your golf swing or tennis streks And show you the results in crystal-clear slow motion and feeze-frame.

### Shoot Like A Pro

Ordinary cancerders produce a rainblew pattern of nease between scenes. This can be annoying when you shoot something with a lot of scenes, like a Little League game But the PV-320 has a through game But the PV-320 has a through the produces olean, writually glitch-free edits. So everything you shoot will have a more professional look

## The Choice Is Yours

There's a full range of Panagenic camcorders. From the sophisticatled PV-320 that records home movies and plays Hollywood movies. To a compact camcorder that weighs less than 2.5 pounds. Nobody gives you more ways to catch the action than Panagenic.

Panasonic. ust sightly ahead of our time. calm iss actually increased the parent Marriws service cold and very less, it was only in a low places, where a veget to its might doep downhear made a patch-mnutry werrer free where we accurd it the place could age was anything ceptible of supporting a monote, anyway Salt they were well under the polar cary with he do ger now Them was da lows the readue water here and them

When the ince way up helooked and in the searchight beam to ease that the oborm westhere all right built wasn't oracly ontpy it wasn't risk will when it was regreat bubble laace with what might have been obtained and with what might have been shrinke and what ould be called tables Some of them had thracp on them

Hany Stagman ddn; know what it was he had found but thad a lumity suggestwe look to it if it don't make the compotion for nakry swafty minutes though By then the yolls had brought others into the canthol com

They began to yell too Capan Beertell's otherd Henry back out of the way backasethey versa i interarts that the would gottee scrifter and incols somefring ever or parts the wong button but the called called giftress of what way one was the called called giftress of what way one should be called called giftress of what way too the screen and hear what everyone was the torter and hear what everyone was what many too Market way to Mark too The Market Navy Ji

By the time Steepmen had particly inched his citil out of the way he was atmost done at the base. Not guide alone. The waking solk. Teny Kaptan and Buce DeArgets and encorn has others who were well enough to look but fair hom well enough to make here to hoth quewer were where ing and guoping bothed tem but everyone dear was open.

(and weak parks) The lumbal from the base camp to the Varpariment state was they have kills makes and a bit the latt hey bit juritized Wheaked variatios couldn't go down the united part, buff or one was waiting to was for limit go bit first hey parks draws to oright as then in the big wheaked surveil buggers as far as the surfaced section of the surveil were.

Then they walled in air masks and backpacke, because the department size wall by light yoan the most automating decovery the expedien had made on Mass, and iheristics the dring that most nearly publied the loss of nearly all ther lives.

They simple all went all but the ones loo sick and Harry Steegmen. The decoverer of the department slore was not allowed to enter it.

It want just this he was needed to get the big boer out of the turnel so people could damber through Caption Seensch is slad order had made that clear It was "fou stay here. Steegman you under sterd? No mather what."

So for the fest tan minutes Steagmen and his hovering casualties saw nothing on the screen but the accur expression on what ports of sock the drill tocknews indibing through Then Steegman turned i roll and switched channels to the portable calmetas in the lest burgsy "to that it? With Tenry Kapten asked houring breach to speak it looks looks"—she took a deep breach—oke different

It only the turnel' Steegams and apmathematic sector and the term of the term mode and without which an environmode and without which aptimate sector So Steegams without pattities and the term without patties and the term without patties and the term of the term meeexacts than the other Mary Lunkes are estable than the other Mary Lunkes and the say and they are stored to the thousanes made the grad index to sp and credit ? I wave out, patients and the credit ? I wave out, patients and the credit ? I wave out, patients and the set of the grad index to be thousanes made the grad index to be an externel wave out on the last credit ? I wave out on the last credit ? I wave out on the term of term of the set of the set of the term of term of term of the set of the term of term of term of the set of the set of the set of terms of term of the set of term of terms of term of term of term of terms of terms of terms of terms of terms of term of terms of term

"It could be a watehouse " objected Manual Anchew Applegate senar surveing archaeologia: antoyed at the presumption of someone who actually was a communications engineer

"Thanks nothing on most of the shelves Marry Arry," Captain Seatseller pointed out

Lawless answered that one too 'The penthabies have penalted of course' he cried. God known how old the st Builit's a store all notif A sup. A backart'

And back in the control booth Tenry Kaplan whaperiod to Soegman, with what sounded like the last of tenbreath, "I really is a Mary's Henry Oh, how Morton is going to low lited."

And no one answered bocause Terry was a welow Motion Kaplan had died more than three manifes before

And iso the expectition began to live again—an which is it could with meet of its people already bund under the Maran all Petares, nearlysic degrees, only of all insta—everyone wanted to gut his architectograph lives matching invertigance architectograph lives matching invertigance but not in the bund of they with the patting agris of mai informed from Earth, but here hist lives many months.

It don't tapper right way. The out-oftion task with the stakes of the NAA Comment way was been than they results, but no ment NAAA comment way paying strent loan them the first excited messages came a flexibility of the strength of the commission and commission of the strength of the and earn the stop sparty boles given the last hold of accumated tapper And of And bolesdom variated.

It was a good time for Earth to take an intendi in Mara again. The movie star fract fact his last bour with a gracy's terminally, and there was a new Corpologization and burning up the termine sourch. So the notwork news carred the pattures and them were special bill from most is were update.



## Panasonic Telephone Update

Today there are doubts of conless basehores to choose tiom. So it you want to make an informed statintelligent purchase, become tumiisr with what they have to offer Tieo tips. One, look for a cordiese with a regulation for superb sound. And teo, look for a cordiese that offers leatures that make sense for you? It was do that, chances are you'll deode on one of ours.

### Automatic Intercom System

This feature shows you to take the handset outside and still be in touch with the person inside. Simply touch the intercom button on the handset, and the system is automethcally activated and ready for two-way conversation.

### 10-Channel Automatic Scanning for Clear Reception

Certilies Interphones operate on charnels. On occasion, they're susocytible to nose and interference when that happens, automatic examing that the desired theme! within a 10-charnel enge and puts you on 2, Just pites a button. In fact, you can even scien during your conversation.

### Security Systems

Edaya cordiese telephones histe redaya cordiese telephones histe very sopheticated security systems They help revent careediropping and unasthorized use of your telphone line by anchar cordinals slicphone owner So look for festures like Auto Security and user changeable Digtel Security Codes in your new condicas blochone.



the of balance workda or all Persons takehows

after the late news and NASALPR pacple wasa in feature. Sond us more, they begged Net just some crummy old archaeological datalings and photographs Paramatited interves/

intervensively monitorial that one hero of the expedden, whoever he was who had first discovered the Marian Macv's

Since the capter was will and toget NRSA senand to take his driver and off it They as collid Sharon ber, Nampiz away molecning samples of defendly organic substance throm the store end out hat to each pattering herry Shappharat did take. The net sub-take store and the take to the net sub-take store and the take store takes the substance of the take store takes the substance of the takes of the substance of the substance of the takes and shape the substance of the takes of the TV cames

Capital Semidlar of oursis, dottline interior himsel—be tencentored all of the samp. They found the sub belicking chass in the colony and planted thim belose a canner, with a tible contening a bazers port of uneated mail implement between terms. If was the most spectace largebase them it was the most spectace largebase the actionologist had so for allowed them to through.

There is a regime space is a conset is a conset of the other interest in the result is a large of the interest in the result is a large of the interest interest. In the result is a space is a conset of the result is a the result is a space is a conset of the result is a space is a space is a conset of the result is a space is a conset of the result is a conset of the result is a small is a space in the result is a small is a space is a conset of the result is a small is a space of the result is a small is a space is a space of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a conset of the result is a small is a small is a small is a conset of the result is a small is a small is a small is a conset of the result is a small is a small is a small is a small is a conset of the result is a small is a small is a small is a small is a conset of the result is a small is a

The carriers faces in adjusted tacks to prove the stack to explact hack come iron and size. Henry Steeprine adjugging the own with a linger which he was supported to the darget file instructions in adjusted to doing. His instructions instal been Justiues, but is was instructional to be adjusted to a bit with a structures in the lower Justiantis accessional today is detergined in the bit was adjusted to the structure was being that they bacay annulation in a bit bit out and the structure in the lower bacay adjusted to adjust with the cost bacay adjusted to backs with the cost bacay adjusted to back with the cost bacay adjusted to backs with the cost bacay adjusted to back with the cost bacay adjuste Now "said the captain with an edge in his vece." I want to introduce to you the man who carrying cut my directoris mode the lists penetration of this Martain mirivel. Hierry Steepman

Steegnan jolical his eyes open and binised at the camera. He cidn't like horing it lock at this target searched away bit only onto the monitor which was searched away be caute the time shaking. He tood a camera if which made twortee "Henry and the captain." Bit ushow you find when you below through into the Calaffini.

Stagman thought for a moment and then sad uncertainly." Real good?"

Testi good Wall well the that Hefry and the captures with audite (obterance) But when you completed this task. I had allegned you and saw for the first time pool that there had note been Wile on Weineven calcered tail-wells you surprised? Exclare? Happy? Dot a make you wer't to laugh? Crev? Or both at once?

"On Take what you mush "Henry sold, pendeing. Phety much that kind of thing, louess"

And do it make you reake that all the great sacrifices of blood and inserure the hese of so many of us, and the wondenul support the people have given in making the versure possible – drift make you think twen all worthwathar?

Henry had ligured out a safe response He said promptly. "I don't exactly remember that Capitan

The capital swallowed a sight and mobacked to Mina Wendwate: the basil looking of the survey general, who came botward into carriers targe with a champagre bothe and a gates. This is long you henry, said the capital: learning forward to day in range of the carriers as Mina pource? The your just reward for carrying cut my instructures as exceeded. M

Henry held the glass carefully while Mina titled it curtised pretaily to him and the captain and withdrew He looked at the captain for instructions

The cardsin said boltax "Drink (1"

Right Captani Henry sold He started all the glass then suiderly synder it to has ligar the slabbased half the contents over historia and how the formation of the contents better uses champagers but the contents watert thay were something bubbly the chemistry had cooked up to retrif the chemistry had cooked up to retrif the chemistry had cooked up to retrif the theorem theory participation with a Macteria start of the start of the start theorem theorem the start of the start of the start had an appendic the start the Macteria start of the sta

It was not only a list of trouble to keep up he movie backhame, is sometimes dicht, wolf at all. The capture gave the converse a great smile and said. That conclusion our marview with Hearty Staegream, who uit, also my—athalisis t. Hearty? The advect introby. Steegreen that tabaped clubler git it the mass on this back long enough to wave lashicable at the caption.

I just wanted to say one more thing' ho plasified "You folks at home? I know it's a ktie early but-Meny Christman?"



## Panasonic Audio Update

Panasonic XBS stereos produce bass so powerful, we dare you to match it. But they have much more to spark your interest.

### XBS Goes Boom

The RX-C38 will put more boom in your room. It's a sophisticated 3-piece AM FM stereo cascette récorder with sub-reverse and a 5-band graphic equation. Plus thereis a 6-speaker system that's hard to equal. Because two speakers are subwoolers that will generate enough basis to knock wou off your equilibrium.

### **XBS In A Mighty Mini**

Don't let the small size of the RX-FM40 fool you. It's the compact stereo that produces bass with incredible impact. That's because it combines the XBS extra bass system with an AM/FM Seleto, in a XLo-reverse cassette recorder, an 8-combination equalizer and a 5-speaker system.

XBS On A Personal Note For those who want to expense ce-XBS on a more personal level, then's the RX-SA78, its an AM-FM personal secence with multiband graphic equalizer, Dolby; subreverse and specially designed headphones that intensity and meanity bass.

So if you want more than just basic bass, Panasonic XBS portable stereos will be your new power bass.

In Doity is a registrend Trademark of Dolby Linter



may made assignablight give another physical after that which leap him in the ward owangst arrong the immobile and the darg. The surgeon stacked his text, and philes and table heny matter of-facily. "Burking gartig timulitad Allermorp weeks Nour myells badds are inflated away his gartig to get wome prefly soon—Traf's a nea hencid though well ??"

When Henry went to the captains of ice the captain waining there. Nother was the surgeon but his napart had already correover the net, and the veculive of loar was studying 4 of her screen.

"Rowers what Hany? she asked "tho went to go into the casent? Good laid not Captain Sensitier would never permit it The suggeon's report makes it why clear, your motor welkness are too untrustworky, that's why delicate suid! in there and we don't wont is weeched?

"I wouldn't hart anything the protosted but she wasn't listening anymore. She put weverd him out

NODOLY else venied to taten either, hough some of them thed to make it more petitable. "Nou wouldn't wan't to spoil your own docovery, would you?" Mms Wandwater asked.

"I would'it hurt anything Steegman pleaded

"Of course you wouldn't mean to No" she stad kindly "you put stay out of there dray? We just can't allow any more acco dents on our record you know"

She was gone before Shergmen remembered to point out that he washt the row who had cacheolite explained tooler or let the fastion products into the weet Starm has Perment was lender but also busies? She basied up from the tables of samples long-mough to say "finally cart bill to you now. Henry, but don't wony "that lister scare or before you know

But fit weren't sconer, it couldn't be later Stangman cald absently. "You know it's Chestmas Exe?

Ch Solt is Meny Christmas. Hany,' she sad fumility back to her lab bench

Steepran hipset back to he correboth and cavable he landed he landed still majori balance he screen without ending thousand Somethines he gat majori back and Somethines he gat no exprise under the acategor is still and the screen have to have and into deptit under the acategor is still and hold service here have to appear motifiely but would associate to appear the Mataian to call was to have and listerates again. The intrines Steppane

He harred i of and thought about the service tractions flut the derived on surface much On is finder taken weeks after landing—in special the deaths and the close that many sear result of the suryhors—what a thirt is had been? He had adlighted in buildicarg againess seterally ultitodian Martan said and great into fits bases for the huad dath tracting fails and ther spatial back to Earth or in rearring actifity or a hundred bitmeters to pack up samples and bring them back for learning actified of develoci decards of the actified of the develoci decard up and before was an addret the quarky class holden was an addret they and holden was an addret by the actified of the before was an addret by the developed of the holden was an addret by holden was and activity of the second before the holden was an addret by holden holden was an addret holden holden was an addret holden h

Or as hopes for any of those dwindled a tree?

Or a bush?

Or a thin petch of moss on a rock?

And they had loang none of them These was nothing. There was always nothing asough the same always and and nock or tandy loe at the beginning of the cap. Even the lary out and the while-hot stars weren't exching any even

Steegmen kicked against the rock wall under his control desk

Then the brightanes

it was after all, Christmas Evel

So Henry Steepman media te korp twoback to the opsisons office again pausing of the way in two and classes. The Sorte Calcebra the policy to the Network and and classification of the sorte of the sorte of the sort in and having down the control Calcebra Sortesles was not necessary back and control the sortesless of the back of the sortesless of the sortesless back of the sortesless perify "No. in: footh address the Sortesless perify "No. in: footh address the Sortesless perify "No. in: footh address the Sortesless of the patients" of the sortesless of the large for the sortesless of the large for the sortesless of the sortesless of the large for the sortesless of the sortesless of the large for the sortesless of the sortesless of the sortesless of the large for the sortesless of the sortesle

The focused vacal was Cartain Speciter (Cartain Special Cartain Special Cartain Special Cartain Cart I wreni tooming in Ciiptein, Henry said humbly I just wantool to ask if we were tooris to break a Chestrees partic the sets

Christmat/P the captain repeated and Appleque rest to him said. What about Christmat? We don't have time time that, Home Exervisedys too base?

Ten not too burry Marry Anny Steeg ban s ed and the caption section. Ther

The strendy dug as of everything we used over use

There index some of the things bagge that be "interedy. Strongmen began infing position to back away from the captan and inthe process-telling on the solide of techs blan how where the dtill load broken through He lunched against the captan.

On sorry hosted but nothing noods unlarging. Not even the game-yeards

Go invaried the captain And Strengincrivent He hostated at the tunnel buggy casting a look at the captain. But the cap fair was once topin deep in argument with Manny Anny Appleption.

Seegman aghed and started the long, impreg wilk back to the done. He could not uttar all just take the buggy and lenve thuse people marconert.

But a closer motion down the turnel has face brightened his stride-quickened and he sumed off into the shaft where he had left the stigger. He could drive hereaft horse? Ho is that turnel of course But there was nothing to stap him from making a new one

Satignah presed against the sound most of the lumidar you where it ounded into the stranger task. He found the reowned catch it had reck drags in it, of course, but be paintify worked hernitee specied the treph climber is, and made its rate to chanse set.

The quarters were champed and the colars was all uncertentivally tet from the last space of digging. But it was his own He pulled the Senta Caue suit out of his kinapsinick and child it spokhmoline have Thennie learned back and cload his eyes He schell sizes.

Alter a while lie sar up snaght torred he sting oversies on checked his institumente. The transite had consumcators at well as control process to the campalate, and Steegman considered calling backlo ist inspon who highly call have a main aud. He thought he might lasse a main lead he thought he might lasse a main lead he thought he might warry backet en light was boost how he fell ito - because in light he was becomen to light warry backet.

Since very few persons would really care Steepman deoded against it. He cut the commonications system out analytic that he advanced the control for the drills and empared the treater matters.

There was a racketing roar of noise. The cab, and the whole turneler, shock in shoct, sharp shocks: It began to move laward down vizo vegin Martaan rock.

Wority minutes later Steeprisen began



He advanced the speed of the turneler a bit and bored on

Soften Was responsed assegment bank back watching the pameric change before him. What he was looking the mody, were soft spots in the rock alread—an infrusion of lighter rock maybe or a lons of cathrate the size and solds mix their was the participal Martan across of loader were.

Or-perhaps/\_another cavern

It was a pity Steegman reflected that he was ading to de scon

Nover any of accest trings. On the other hand, he comforted trinself there was hardly anyone who would ever see the things he had seen on Mass?

Even what he was seeing row on the extrem why investigation of the section of the transmission of the transmission of the transmission of the team of It their was intractions accurry at all on Mass. Liep nor the from how where either sounders had inducted an occasional phone of waters lighting indem manageeven inguid worker in a loss spasse small phone. Print Inggrave, the head geolophone in the Inggrave, the head geolotics of sound a loss each area well and the either and the state of the sound wellings of warmt hom the ling resclual com host of the old planet

Evers tom plannes like times that Banes men hed to oxylin book in the samples that trinked Townon than Banemer Cryptony III was almost centrally originer makes that though 1 steed.—but the team of the tamtells and had to oxide it the castoan combust to an well. They had just and some the nucleum regreter isopranes samples the nucleum regreter isopranes tamber to planticular web could have been same such the NMR-capament nucleum on the castoal provide

Stoogman loaned loward peering at the screen

A gray bob on the lower eight-trand opner had chroged to gaie bob as the sorate got a before reading on a Clashraidh Nor reading liquit where? Perturbs, Sleeprient could's gat a himperiature issuing gaing bat fittings did warm up a tole we gaing bat fittings did warm up a tole we gaing bat fittings did warm up a tole we have approached the plannes. Twais gains of exponencies the plannes in twais gains between the sources.

It was unusually pretty now it was almost a hologram or at least it gave the illusion of depth. What the poppers submed, the scear computers examined and analyzed and soughtd into the scene before him.

What they displayed was almost shown more infrage and beautiful thin anything in available that anything anything outstand there are not ing through the periodia of earlier anythy neck throws offlerences of leadus and chaining of makes where the must had been almost all cold for assess blowler. There were counties gaits and tracks and tast lines to make a pleasang tracks and tast lines to make a pleasang

It was turiny. Storgmen thought, that they akon't look really random

He had to pause for another secure of working initiality the carefur does to the tips against the carefur datas lumbs of the turnelity. When he was through the put it aside still storing attles screen. He heading ratio serves of whet he was page again.

Arrous alread attitistion the two-life was defining fracture that was all priordroped blocks structure that was also physical is policy replex Not claimsel Ner, even kqua water it structure of to the life and newy all are as the sound proble could reach no are dilected in 1 the other, for a dispartment store. The had long alog blocked with a came to apagenet a herd

new-geologically new-initiation as one Smiring to tempoli in pleasause. Steep man inched the more of the baser down and atoding to intersect if

When it was huge before him those was a lutch and the culling rose your media

Tool was a supposed "There were not many communication surface Stoogman querkly shut the blades off On the limitor treads alone doad slow go Linneais showed if way though a low crumbling edges studied. When it washing he lamed averything off and possed to controls the season

He was really vary tred, he realized AF flough fer was clied fait the prenklig plang of the turnoise had altoport, he was del very queers. He cautously allowed tensed a low app of water them the turnoise's supplies. When he did not remendantly threather users the vicit rowe cheer is

He thought for a moment of opening the communications link again to report he find. The geologists would surely work to revestigate this unable) structure.

Steegman jerked the glass to his lips . He slobbered half the contents over himself. He "sputtered, choked, and lviliched and dropped the glass, then set there, gaping at the camera."

But Staagnan warted to investigate it himsel

He pulled on his at mosk and with less strength than he flad ispected was traily able to force the front halch open against the galwel that had accumulated outside 6 Tower hol

When he stepped cautously out onto the table in bornied her teet. He happed back mits the turnels in tables given fast and lasking around for whet he needed Lights. There was in thoughing pack of between and ahand lemp. Gothing isso because againt tam the rack feathere been beeted by the dillife turnel was oute oxid.

He grimed to himself took the gar monts from the back of the seet and pulled them on even the planum-blond beard

He engaged the tractor treads and inched toward, past the nutble where he had broken through as tar as he could unto the motobriess dual tech crunched acarst the far wall

Then he slepped out onto the smooth \$21 loar of the turnel, which was no geoload leature at all

Altrough his vision was bluming and his breathing had become painted Strengthen was same of their. The surnel was as much an antilactial the "department store. Crysbeline wells undermed by the millionia boutcoad black the light of the trend lange the cross section of the funnel was trangular wells mainted comers. Natural for mathementation arrange an werk straves

What proce Nagaza Fails row! Boilg man liagted out load in trumph. His days was dear His should up have in heterneire and tell the test of the expediation what he had load. They would went to come suffring to explore this lunnal to saw what it liked to-

But so did he

Without looking back he sumed left set taid the balance park before on the should der strates, and began knyping dowr her unmer When he had his need spaan of unmers When he had his need spaan of unmers When herad, have was need machleft in the other herad, have was merned. When all best he cook wells no brogen he set down, his flogat sumining with cuatification of wells may here been below possels or might have been some below to differe

He closed his eyes periedly happy

It was a long time betwee his opanied them again and he wouldn't have, except that he foil as though the old dog were nuzzing at his longers.

When his wake the sometion ternanod Someting was nucleing at much lead it was was in a dag. When he same, it thinks the was he pain the list hat with he lead of he was he pain a backed like out to be addyting with a backed like out those at those hatly hap seals the far harmen dicthed, only with shinks satisfies (age. "Many Christmae." Henry Stregman whispered, and ded

When at list anyone noticed that Sceep man was instaing the captain accered Manual Anthree Applegate to follow the new Jannel and instaives the bone sould be lessel--whether Steegman was instaining unst. Ine declared, he didn't at all care.

When Applegate reached the boner and take what if had broken into he almost incoherent message back brought half the colory there on as close to a run as they could manage

What inally they saw the dimming glow of Steegnants hand lang, far down the condor and humed lowerd *t*, they saw that Steegnan was not alone

He was doud propoed against he wall international terms to a service and a been they could see he was serving, and access him wheting is detess as they tred to avail the heads given of the approaching lights were eight unbelowably wholly unexpectedly unsryably living and been him diverges.

And where all but the few survivors of the expedition cares to apprecentative ception and a New Yosh toker top panade, Broadway was not remained Capital Secondar Avenue for the occasion II was called Herry Steegman Boulevard DD







**HISTORY IN BITS AND PIECES:** ODY SNATCHER

PHOTOGRAPHS BY ROSAMOND PURCELL

Resemend Purcel epicietizes in taking scian John Collins Waiven and he completion of white would ordinarily be objects: temporares for the Warren Anatomical strange beauty The specimens shown Leider Medical School in Holland

of repulsion-two headed animals skulls. Museum of the Harvard Medical School skeletons, phoulish fragments of human and by his seventeenth- and expherinthlaces-transforming them into objects of counterparts at the University of here were pathered a century apolog phy- To find out more about the photocrapher









and have extraordinary work we dispolytical were bon Leasen in the Procisisseudo in Cavitoridge, Massechuetta, winertais nievowe conducted Orea: Welt driver pol to selek out and protegyrans bang as way of maining sele they exact -escooly in nature helps yait methal collection. There is a finalmethal collection. There is a finalwhintey and articles in the wey fings are preserved and collection.

Oreal I don't three anyone could call your mapes whenced

Parcell, They are not delightful. I d be also particle searther they are not hardwaretally ghouse All they are not hardwaretally ghouse All they are pipels are beautially progress attribute in the later 1200s, perpile del not know a kit about how human borgs—hands, easy neces—were not invester. The was all concentrom write

Beades looking at a nose in a jar shith half as bad as looking at the face from which that nose has been terroving Cense; but what about his wax face mask with the terror that the left invo?

Parall Yes, it is protectively defigured but the mask itself is a magnificently detailed thing. You can even see the wholeas on it it's inceediby beautial

My pixelographs are about receiping a pixels of the human body as if it were a kind of allar. Now as able to contemptifie it at a sort of susreal detarces. You are not merely looking at an amputated armitere particularly since it is in sized cuff its more like a susreal detaict, an con

Qress But the wax model of the beby on

Prevenus pages (large preds) five facord real penalt photos, obschwale from initi rotal initian mean, sketchen of statt web indents, and was replican. This page (tecchines from molde right) freis sealisated: by in initiane version adult shufts were face with turner reported adult shufts were face with turner reported.









In board has some bornb parts. Read: Two it is missing a horizont and here those hostie bendages. But it winneds mutile and the latitication of the latent mantial water the latitication of the latent frequreasing water water and the latitication of the parameters. Were made to horizon the matter of under parameters the latent matter the of under parameters and the electron attached at the rate cage issuemest way close to each other in a latitication and way.

Denv What was it about the skull compoatoms that appealed to you?

Parcel, The Insection solution connection me of boulders The pattern of the fortainals the out spool in the duals, commoded me of starend galax. And there are linked we of takes brought to Moland by solution in the laster TODE as outcodies. To me free any interneting taxonasis they had load of would preserved with a load of average commony. They have boalds and refere

The other size peaks gives such territy information is one skull label sign. Its was a passe and succed. The one neet bail this is label ago who cload at Watchico the gay above was hanged for musice onew. You use only natural gain. Why? Parcell its aesthatic Test sportners look other with available light is ignitized with? Detroit is aesthatic light is inhibitority of somehow don't light lights and technology concretive don't light is with a emissiphere Detroit. Are here any other collectors had you are deper to set?

Purcell, Theven'l made specific plans, but a franch sold me about a Plonm women embatmed in wax--elie lived by a tallow factory or something. This on the case DO

Pervenue pages Neo Inhuses donated to the London museum by notes in the insphilicity contray. Let Beennit and This page (b) real. Nex replice of an infant surgeoid potent load bagreenest Meddernee Shelmton of herio pared at the nb cage petwe on the latticed sing of a bission ander Reduit Des associes.









# PSYCHOTALES

Langston Hughes, John Updike, Jayne Anne Philips, John Cheever—and a psychologist—tell you who you are

Inget saming a kinet of participation of scante sectors. John Cartan the more conporter costed by Using Here Brunchin is resultationally targetised here and coorts a sector of scanter advertises. As a boy, Cart Stepse referenced with these abates would be a the and advertises. As a boy, Cart Stepse references with these abates is solution at the sector scanter boy theor in the prophological Matchine's. Engine head that has body and body as scanurers to teatwork to the outputing power and invariant quarks.

Hopmologies rate long worken that we degree the strenge we bit also window to our scub. Dur hopes and base an reflected there our ways of insistening with the world in wested use clear streach are the west in which our preponet to reaching a work of liston Wei Segain moved to bactorie an advontion's bocuuse as a boy he load the advontures of John carries or othe west these streams backware.

PAINTING BY CLAUDE VERLINDE



he was elready at heart an astronomer? pathon with a periodiar character or feel

Minnesota Multiphesio Personality Invenmeasure various repects of an individuals personality. When we asked Smort to preclasibehind those tests to totion. "Psychoyou seppond to fiction and what that may say about your personality

Here a how Sincer which as been study clearning, and fantage for the past 40 years. cike Jayne Anne Philips and Lancelon Hurtherd that reveal certain personality ality. When tailed your myportest to Spoin mind though that your response is transid on just a few questions about these tour stones. For a more complex picture of your presentity you would need to rerumber of different occasions to balance

each story naturally. Don't try to anticipate question by reflecting on your separation in reacting the story without trying to poych

She was a lirge woman with a large was walking alone when a boy ran up bastead of taking off full blast as he had haped the boy tell on his back on the subwelk and his least flaw up. The large woman CHN

smply turned around and locked him right square in his blue-maned sitter. Then nhe

After that the woman sed. This up my

She still held him tightly that she bent

The woman said, "What chick you want to

The box seed. Tutedo term to

If I turn you loose, will you run? lasked

Then I won't lum you loose said the

ko desans the stones we tell arr windows to our souls. Our hopes and fears are reflected there, and our ways of interaction with the world are revealed ?

"Lody, I'm sony whespered the boy got robody home to tell you to wigh your

'Nom sad the boy

Then it will get washed this evening."

teen trail and willow-wild, in tennis shoes

The woman said "You ought to be my son i would teach you notif from wrong

Nom," said the being dragged boy "I and want you to turn me loose

By you put votered in context with role tact is not going to last awhite you got an Mrs. Luella Bates Washington Jones.

Sweat popped out on the boy's lace, and serked tem around in front of her put a helt chee him up the street. When she coll in a hall and min a large sightereste furswitched on the light and left the door open shi bari hm by the peck in the middle of

She said. What is your name?

Then Roper you go to that sink and wash your face " said the woman, wherewoman-looked at the door-and went to

Let the water run until tigets warm, "she said "Here's a clean lowel

You come take me to saf? asked the

nowhere said the woman. Here I am you and been to your support either, late as

"Theo well out," said the woman, "I beteve youre hungry-or been hungry-to try to shatch my pocketbook?

Well you didn't have to snatch my porketbook in get some suece shoes said Mrs. Luela Bates Washington Jones

The water dripping from his face, the boy looked at her There was a long place A face and not knowing what else to do chied what next The door was open He could

The woman was sitting on the daubed After a while she rand 1 areas vouno ofce

The woman said. Um hunt You thought I was going to say but chdn't you? You going to say that Pause Sterice Thave clone targets too which I was/cloot tell you thing to eat. You might run that comb through your her so you will look present-

science was a gas plear and an locker. Misjernes gard using alwarth birth after the economi-The ways and is and was the birth the economiter wass aging to and incerce and all set with the the results watch the felt behind the or this adjusted. But the boyl took can't be so in the fair used of the recent, away form the paner. aut or the opener of the ways fails watchin him. And the did not ween to be mailtrasted now.

"Do you need somebody to go to the score," asked the boy "maybe to got some mix or something?"

Don't balave I do, said the woman 'unless you just wort awaid mik yourself I was going to make occos out of this carried rolk I got here.'

That will be the 'said the boy.

She having some limb berrs and form also had in the better, most the occus, and set the table. The woman did not add her boy anything about where he held on her soles or anything relies that would dimter about her pb in a hole besting there and her about her pb in a hole besting there and her about her pb in a hole besting there and her about her pb in a hole besting there and her about her pb in a hole besting there and her about her pb in a hole besting there and her about her about the sole of the her about her about the sole of the her about her about the her about the her her about her about the her about the her about her about the her about the her about her about the her about the her about her about the her her about the her about the her about the her about the her her about the her her about the her about the her about the her about the her her about the he

Est some mana son she said

When they were finished eating, she got up and said. "Now here, take this ten dollass and buy youried some blue subdet shoes And next time do not more thermilake of latching onto my podebbook nor nebody alsos—becaute those got by dowish ways will burn your first. Light to get my rest now But from here on 11, 501 These you will bothay oursel!

She led him down the hall to the fiold door and opinist it. "Goodraght' Behave yourself, boy" she said, looking oit into the stript as he went claim the staps.

The bay warfed to say something offer than Thork you. Marn to Mis Lake Bates Weetington Jones but athough his lage movad he couldn't even say that as the saured at the tool of the barrier stop and booled up at the large woman in the river. Thes use that the door

Cricle the one answer for each coording by that best describes your experience while reading the story or your feelings immode aley after trialing it.

### CATEGORY A

 I fixed my alteritor wandering much of the time and couldn't really get miched in the alter.

 My attention wandered from time to time but I successfully followed the main times of the story.

3.1 became engrossed in the story and only occasionally allowed my thoughts to drift to something else. 4. I was to caught up in the story that it assemed for a time that I was extually in participant in it.

 As I read the story. I was struck by the clever use of language—the shifts from the classes spoken by the characters to the vacelasizes of the second.

2 As I mad. I was occasionally struck by the clever use of language but I also found myself vessioning scales and hearing the dialocus between the characters.

3 in seading this story i often saw liables of pictures or heald acunds as it i were watching the story unfold in a move

4 The story evolved a non-array of images for mail 1 aav the faces of the older warnan and the boy I smelled the cooling and could even take the cake CATEGORY C

1 The story seemed very distant from my own extension

The story presented a good description of life among poor minar city readents.

3 As I read the story I found myself dening about my own life and how I would behave if I were the boy or the older woman

4 The story excludimenones of ecenes trammy ownite L responded to it strongly CATEGORY D

 Li alternated between leeling angry 44 the boy for his thewery at his paratics for thor neglect, and at the old woman for her postmetics

Where we got the idea that something small

### could be powerful.



2. Hell somewhat angry all the accusi or cumstances that led the boy into thevery and that made the older women a victim.

3 I was a little arrityted that the boy couldn't express his thanks to the old wotten but most of all i was touched by the compassion of the woman.

 Wheel wert out to the conlused and despende boy and I was moved disply by the concern of the older woman CATEGORY F.

 This story made me think about how much people need each other and how important it is to have a sense of family.

I fait that both the woman and the boy were lonely, yel couldn't come together

3. Ladmined the woman and the boy to being—in their own ways—independen and strong.

4.1 Was imprassed with the independ ince and strength of the woman and know that the boy would follow her exempte

### REUNION

#### By John Cheaver

The last time I saw my faster was in Grand Central Station I was going from my gardemotives in the Adamskala to a conlage on the Cape that my motion had remind and I work my faster that I work and in had rad asked free could have hand logether His secretary works to say that he work me at the intermision book as more und a lawlew sized treat is any compared treating thread treat is any size of the s

We went out of the station and up a slide street to in instaurant it was call early and the place was empty. The barbender was quareing with a delivery boy and there wise one very sold water in most case clower by the incriment door We sait clower, and my lather helide the water in a clowd vocce "Kellwert he shoulest. Gargaor Cannever Nort He baceaequartess in the ampty hea tearrent seemed out of piece. Could we have a little service here! he shouled Orop-chop. Then he dispositions tends This caught the waters attention, and he shuffled over to our table.

Were you clapping your hands at me? he asked

Calm down calm down sommeler my lather said. "If it will too much to ask of you---If two/igh toe too much above and beyond the call of duty---we would like a rounde of bealsaard Denizons.

"I don't like to be clapped at the water and

It should have brought ny whole my lather said. There a whole that is nucleic only to the east of oil waters. Now take out your liftle pad and your liftle panel and see if you can get this streight hav Deeleater Graces. Hoppat after me two Beel eater Graces.

I think you'd befor gu somewhere else the water said quely

"That "said my father "is one of the most britisht suggesteins I have rever heard Come on Charlie let's get the hell out of here

Indexed my table out of this restaurant into another He was not up bottoms this time Durchniescame and he cross-quetioned mission the baseball season He den struck the edge of the ompty glass with his kinke and bagai shouting again "Saroor" Author' Not' Could we touble

### What we did with it.

You won't beer it say wroan, but the MultiRpeed HD is the fustest and reast powerful laptop computer around

What's it got under the hood? The NEC Bibit V 30 processor and a 30 megalyte hard dak. Which means it performs at 90% of the level of an organal AT class PC. And it's PC correctible

Wirst's more, the NultiSpeed HD has a brilliast backfit EL screen. So you can easily read it anywhere you choose to use it And when you're on the move, the Nait's easy to hardle With switchalth taitery.(10) power For poolest literature or the Multi-Speed elsels: manusch you call 1600-447-400. Or for technical details and NEC Home Electronics (USA) for a 3-300 NEC 2017 We think you'll agree that the Multi Speed HD is one hot filte machine Speed HD is one hot filte machine

> MultiSpeed HD Take the Multi and run.



you to bring us two more of the same?"

How old is the boy? The water asked That, my father said his none of your opdimmed barranse

"I'm sorry, sir" the water seid, but I world serve the box applied dark."

"Mell. I have some need by you " my lather said. "I have some very interesting news Ge you This devent I happent to be the only restausant in New York. They ver opened another on the comer Comeron. Chantel.

He paid the bill and Hollowed him out of the resourced into another. Here the weeter weet pink paidate the furting cools, and there was a lot of horse task on the weets weet down and my taking logical tasks again. "Masterof the hounded Tailyhoo and all this cord in thing Weel Rive a little something in taiway dia setting cup Numely two Elbascia Generators".

"Two Bibson Geelesters?" the water acked aming.

"But know damned well what I ward "my lather said angriy "I wart two Benhaixa Gitserna and make Langay Things have changed in jolly old England. So my Inend the clubs tells much Lank assi what England care texcluse in the way of a Cocklan."

"This isn't Fookand" the writer age

"Don't argue with me," my father said

"I just thought you might like to know where you use." the water said

"It these is one thing I cannot loterate" mytather cold "it is an impudant domestic Come on Charles"

The fourth place we went to was linken "Buon gromp," my father said. "Per lavore possiamo avere due cooktail americani, fort, fore. Molto giv. poco vermat."

I don't unclassiand liaisan." The water said

"Oh come off it' my tartier said. 'You understand hallan, and you know damned well you do Voglismo due cocklar/array cara. Sublic

The water left us and spoke with the captain who came over to our lable and and "Tim sony, ar, but this table is re served."

"All right" my tother said. "Det us another table."

"All the tables are reserved." the capitan said

I get it " my tather said. "You don't de sre our petronege, is that it? Well the hell with you. Wade all evience. Let's go. Charte."

These to get my train. I said

This scery, sonry my tafter said. This temply conv. He put his arm around the and pressed me against him. "If welk you back to the station." If there had only been time to no up to my club."

"That's all right, Daddy" I said

"Tilget you a paper the card "Tilget you a paper to read on the train."

Than iso want up to a newssland and said. Kind ser will you be good inrough to two merwith one of your goddammed, no good, ten-cent alternoon papers?" The sign OMM. clark turned away from him and stared in a maggare cover. "Is it seking too frach and ar ' my father said. "Is it asking too much far you to set me one of your degusting specimient of yellow puzziekom?"

New just wait a second sonry he said 'Just wait a second I want to get a rise out of the chap !

"Good-over Deddy" I said and I wort down the stars and got ny train, and that was the last one I saw my tafter

#### CATEDORY A

 I found my attention wandering much of the time and couldn't really get involved in the story.

 Wy attention wandered from time to tree but i successfully followed the manlates of the story.

3 I became engrossed in the slory and only occasionally allowed my thoughts to delt to proverting elan.

4. I was so caucht up in the story that it

### 

after-shave lobon, shoe polish,

### woolens, and the

rankness of a mature male

seemed for a time that I was actually a par-

### CATEGORY 8

 I was impressed with the crispiness of the vacabulary and the father is clever use of repeated and foreign physics

2 I liked the writing style the use of foroign phrases, and the sophistication of the language and settings.

S The authors vocabulary evoked some starking images of the settings and the father's appearance and marries.

4. Het as thought could smell the taileer and hear two tailing to the boy and the weaters. I pictured trim and his emberressed son in each restaurant carefronew c.

1 Hound the story turny but it seemed

2 titbought the story was a clover delin externol the humor and pathos of a particular upper middle-class, white Angle Server (Insettric)

3 Occasionally I remembered some of my own chichtool experiences with my te liter or another older map.

4. A host of childhood experiences came back to me, and illound myself comparing my relationship with my own failter to that of the boy in the slory

### CATEGORY D

 I found myselt gating angler and an great the father size! absorption, pattocurrents, and drunker rests

2.1 was arroyed at the father and felt sympethetic toward the boy

3 Intelly, I was angry at the faster but I seen fail sery lot his incompetence Talso appreciated the tuy a patence and his at larts as autablish some sort of relationship with his father.

4.1 was touched by how difficult it was for the father and son to express love for each other and for how the tather kept trying despite his imitations.

#### CATEGORY E

 The etory is really about paople's need to be part of a family, even when it's not possible

2.1 was moved by how much the lather and the boy wanted to reach out to each other, but really leal as though the boy will have to once up thread.

3 I could see how the boy wanted to admits his tather and i respected his himress in going off on his own.

4. I admited the boy for severing that he would have to live his own life and longo his own personality, free of the influence of his weekby, enoblesh, and alcoholic father.

#### PYGMALION

By. John Upday

What is less about his is take were her optimizing, all the path, these to any other capacity, the nodel which here have any other states and a which here have in the presence of one where states are constraint. The basept back, but is discarding means the presence of one shows may any any were all non-sections and any other has any other than the state of the states and the states of the states are any other has any other than the state of the states and the states of the states are any other has been any other than the shows and the states are any other than the shows the states and wates the start the divided data the shows are been any the sould like the states are the data and which each the states of the shows are states any the sould like the shows are states and the states of the states of the states the shows are been any the sould like the shows are states and the shows are states and and the shows are states and the shows are states and and the shows are states and the shows are stated as the shows are states and the shows are states are states and and the shows are states and the shows are states are states and as the shows are states and the shows are states are states and as the shows are states and the shows are states are states are states and as the shows are states and the shows are states and states are states ar

For the test years of the new maintage, after thi and Gwan had returned from a party he would wait unconscience/ly for the materies, the receptulation to begin. He would await prompt: "What did you make of our breferesis testher?"

On " Geen would simply say. The seared vary pleaser. Severag with temnine inside the terepicted make sha might add. Harrikas Maybe a title rolly: Har was fasted as the heart in it to an pecter alence on unvolcied demand and with hist bached and. "What are you reavy after?"

"Oh nothing Hothing Its just-Man guerner met him once a fine years ago and she was affect by what a pompous intwihe was That way he has of sucking his pipeteen and ending weiry statistication with interventionations in



### The X ray opens the second eye so you can see the beauty all the way through ?

Teeth can get a little boring: says Albert Richards peolessor of dential rachology for 40 years. Now relined, his playful experimentations during qualit times lied to a 25-year-old final holby. Richards wears the hist to X-way finances. "Since the discovery of X

Rechnools wapper ther here to X-way flowmer. Sunce the discourse of Xmays The separation, people have book on X-sayre togota and or tates to X-more than successful kine. In here, After experiments with the lives of basis and tase houses. The pool Land postant here any periods for the comparison of the Cresemble of basis and the surface-market in the set in the X-more than the surface of the surface-market basis of the the X-more than the surface of the surface-market basis of the surfacemarket basis of the surface-market basis of the surfacebase at X-more one way X-more basis the surface-market basis.

Is a bodious process that starts with dueting off the pirate Richards uses a small suction device to remove buned sand species and intruding

Previous pages: Companyia dise belifterer (mar) Quiner Arite's hole of reld operat. This page balance kell: Columbian Below refs. Salthan creases the first chardners charanter Queende pages. Turnia: a charanter charanter of













bogs, more in develops all genity ablanchaid with faiting pager. Aller wenning the subgest he develops the source photographics primal Rochaids had in a training in blaeky or photography but held degrees in themeori engeneering and photos as weld as a suffigure as 10 particit. Held the subgest primal photographics and an another the subgest designment and a lower particit. He was be killed us use an electron muenception lands, the microsoft and the subgest photographic and engents in weld implifying and a parate barried by head of the Defention soft to be goods to make the subgest photographic and Defention soft to be goods to make the subgest photographics.

bouild on the worke published in reporting of this sowers have appealed in the United States and Europa and are soon to be published in Index and the Sowei Union. Second Pathards topos to have postage sames made that would optimarily be an improvement upon the Low stamps CO.

Opposite page: X ray of the interity globolast. Above with A pecality lead deade Above right. The peter of a caller ky Below parapage Henterits to low-rest page of the Nexe photographic on the page revenues the Below of Anota and Joint

Now that I've seen all the beauty in these things, I'm very careful not to step on them ?

### EXPLORATIONS

CONTINUED (TICAL PAGE 25

same words were coming again and again Wyard - Before

Before when things were good, they had freeh steak every regist and floch camel mik too which is the best of all mik. There was guitar music and even hards—the dogs tacking galaxies, the check following on that horses.

It sounds like the period Via 1 say

Yes, says the chief ITWOS 74/070

Before the sun became is constant timing the nutriers of like changing to the energy of it, the galaxie curing uncler it, the animals beginning to de year after year, until like May, the last of their was gone. And a world oble with them

Word now? Lask

New they are trying to find a new way of living. They are trying to liver the culturetion of roops and amountained their own. Now them is only not storm UNICEE and not always that. If thy warren and their calls in them. They are then the trying the internet them is drawn if sec there is note Assundtime to ask the culture is noted and warren who no longer have the things that make them what the ware who the things the mode to what the value.

Los peuples ont fam " says the chad it is another phrase I would hear throughout the nucle The section are burgery

Som the cale location location of the Boom has been and the location of the allocation of photographic A remoted with a Phatmach He langers allowing even when terms using me what amers locked like when items using the important to him final like their sould it is important to him final like the He understands I am a par-misling. This is for heapy the says, Ba pacefie will know there was ance such a Mo.

These takes adversely of a large period. Signal Build was faint through the adverse it and anallocation of through the adverse it and stranger was cancer inscards to come 10 might, there was id a during it to come 10 might, there was id a during it to come 10 the last of their depend where, limit they's util now come program (the true of through takes to their depend where, limit they's depletions of their depend where advect the last of their depend where a during the takes to their depletion of the the takes to the start cault is not low of the the results and the the results and the the results and the the results and the the takes the start cault is not low of the start cault is not low of the start cault is not low the start when the start cault is not low the start start cault is not low the start cault is not low the

Subset of up are in the text. These is prough for such of up to have last bids. These is a schwarzsch lossing here, the great for it hat only propie like the can know the cheil and only half his portion. Ha maste I have the next He may be sufhungy. When its show we go back to add for here warrish. There is no tak for a while Then i add how hard this have been for them

This chief mays it is the hardest thing in opperance, labeling the one Me you know been the species understood only in their hearts are those that is them to the cleant i How do you great to every the advert How do you start over—not after a listerie but after an anciestly?

We stand and tak for more than an hour Lyghten my farmel shart. I notice he is shiv ening. "It there no clothing?"

"If there is no food " and he lets the remaining op at that

More phrases become familier with repdation. Aren & mangar—rothing to aid

Whenever I band to take a note two of the man bring lanterns to help me. Skelvy, I begin to test an unexpected kinship, We are all far from home.

There are only two beds in the liast this rest of the floor is sand. The chief takes one last given the other. At let the we say one-dentif. The lastients are called.

La Aberjoyeux, 1 say no the dark "To comprende?"

We due "he says "Ja compareds"

Christinas Evo in the Sahara I lie thore for an hour but cannot sleep. This cold opness into the tert and into my bod. I get up and walk outside for the embers of the fig. I am alone.

When the sky is clean, there is no sky

 There is a knowledge of spirit among famme victims here, a knowledge that says that if you kase everything, you can still have crivity, and there is wealth in that.

I am where 13 begun his powers, no unit of the control of the cont

And I will always remember the hungry of Ethiopia, days from death, welking plast a disabled food fluck, ignoring all load of what because fouching it would have been theft. If y again to sleep I datter and out. Theaty reprint comes I sucception this morring. I have seen it before elsewhere in Africa. The children come to me I can walk nowhere without the children. And always they grow quet and content when I area them the hard.

We ye a that hay and the adults too, used class to Arencerssor? I do not nepectate the removing and the area of the pectate there is no sense that are adult to the adult the action of the area of the is adult the pectate is an adult when there is pain the pectate is an adult when the dol it restores that we stand for nests what we are and what we stand for nests with the consistence.

Before lieuw, the chief warfaime to see write two comes to see Weiwelk to the new corners lenst. I notice he is sourting hard into the sum 35 more than a one lent, and there we find a true chief of farmineore of the more loudsid of this float. The chief estimatous tim. The chief, to him is a samage. But see the hurt in the fixed in could be table and sum Alexander the fixed is assumed. But see the hurt in the fixed in could be table and sum Alexander the local lang alart and fixed within the phologing the "Non a rangee". The says "Nem a rangement of the set of the says "Nem a rangement of the says "Nem a range in the same set of the says "Nem a range in the same set of the

There is a simple here Americans don't income The greated of the properties leads they demonstrated by the difficulties of the least of form. I as the clear should have My Fersch could not keep up with hem build tild not read. I I know som a month in it tomme country what he was saying. That we see one have here is prend against by weather and by the title we have for he who like me has nothing some family.

We have the gend of an angine A half rise descrit we see the doctor's Land Rover. We seek back to the matin camp The chart least not wait, then disappents into his land. Soon he emoryors he is carrying his black soon he shows have a set when an another set.

I take off my LL. Been shirt and hand it to ham Then I give him my Bay Ban sunglasses and Swiss Army knile

For you "1 say.

Christmas morning in the Sahara Licimb into the Land Rover

f say 4 too As we begin to drive away. tum to look back at these people who have been changed but net broken by hunger lam thyking one thought one world.

Existen seen Author Mark Patrikin donated the proceeds from the book "An AInetro-Journey to two organizations that has a solarised. Almost problems pertorlarly well. The final Discourse Without Bonent tota Boulement Bases. Almost Pans Sec. 75005: France): and physicians to receiv. The Persene Plan International (55: Plan Way Sections of the contenent the second Folter Persene Plan International (55: Plan Way Warweck, RI (20057): opercores needy chidres and holtes small visitigat with Local Alwelkontext CO

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## PICTION ARACHNE BY LISA MASON

In the field and inverse Stiff chetypert wynamion (norwere Stiff hetypert wynamion (norwere) heelaga, compound weai appartuis. The variegated planetocapa, seeking another spora source. Oliachory sensors awlich on The desired stimul are detected, another spora source is located PMINTING BY HIR IOER Down the filer dips. But the descent is disrupted for a moment by atmospheric hurbuiences. The thera fine landing gear is strong as steel and sticky with glue A. breaking wing brooks in more lines. The filer

The trapper huks at the edge of the net pendages grapping the spacergpe with of glue over the that's wings, guides the fiber around the filer's sim warst. A part of

Carly struggles out of the swoon Blackplunges into deep black nothing. Then a child on a spinning swing to a vertiginous rferface with court

Partic snaps at her. How many seconds

Court will now hear Marterio v. Quik Sip. blades his presence in court a massive face draped in black fowers like an Easter of telespiece. The perimeter is a flat gray

'On what theory does Quik Sigo Micro-Martino has been tifeholder to the Word-

Carly hears her name---multied lanny--Insuch the necklock, hier arsever latts in her there? Wend, she shouldn't feel her teletrik wrapped up in a web of wres

representing the plantiff. Mertino. Carly can tear them mode with exclorment laters closing in on their prov

Of course, they re on continuency and old jady Martino probably couldn't even scare up the filing less. One of them is woasely hack shrugs at the whering sec. ands on the chronocraph and says "Not

Coursel for defense? The attorney from Ava & Roe? Mt Nohn? Suddet be judge. You have thirty seconds to log in

This play of the sate two sows of rad purple right perimeter of court, glance doubtfully at each other. The aberry pupils

Gnity ble bies at the base of Carly's thrusts icy lingers into her neck. She tries audio again but her presence in court is

link has the sloppy look and growelly found cess into her teksink

You ball-breakers from the big firms, with eat you alwe this time included

crystal projectors in each division indidied thousand births. Chik-chik-chik-chik-

Telelinks of the arry, two rows of red-verned. glassy eyes floating across the purple right permeter of court, glance doubtfully at each other. The silvery pupils dart to and fro 9

countril for Pop Phermaceutoal against the of birth control, pills. In trade, tack for rick futures aper. On news, reports of filleen

In ten seconds your client will have defaulted. Ms. Nolari and I will pite you for speedy dependence' says the

"Tim sorry Your Honor, request a rewith an earsolitized where

Her telejck susceedy cercilistes cruzix sharp while extres flipping black-whitepurple-white, like her ferminal's shorting cooses her body to raise a limp hand and

"On what grounds?" demands the judge

Jacobid Bashi audorita cavel cracks rest week. Ihis same time Ms. Nolari, you will accreach the bench

As Carly anomaches the autoe's bench.

holishot hotshot, he says in a cushy vibe to maintain fastest court in town. He depose andy cases or hour sometimes. You talk tast better have a rap fill see you m court hotinot

The solo logs off, extinguishing the smepty bulb of his presence in court

Fully in this at last. Carly stips and shops the alsoning mental construct of telespace no shadowed corner no hidden

Ms. Nolan, you are hereby cited under

Thety days. Thety days barred from Real How many other bront multierd anplicants did she beat out for this job? Three thousand? Now many other bright quakcourt sparkies with brocht penic. "I'm per-Pule Two Your Honor

"I blacked out for a second. I ve not been weil

"I coursel carif prepare the case you menod you shipethan you received in you notry court. Ms Nolan in advance Dismesed

"Flid Your Honor, Lived no warring, 1 and I ve not been well iffs true, but not so bed had no warring please believe me

The judges evential zooms in on her tecknerro link for a dose up. Ha giftering pupil pulses with his plain doubt. "You ve not been well but not so bad, but your systern went clown. All of a sudden/ Oh. yes/ your teme excuses I know why link fails

Carly steeth begin to chatter a puddle of unne floods her plastic seat. Then a toulink fifteen years ago, har lan year old boolv had disgraped her thus in the presence of such swenile distonor. Her presence in court vaciliates

Tminution drugs, Your Honor, Emili 1 tell you it's something insidious striking with-

Or the ful? Or a hangsver? Or the dis-

scores of unseen throats. The apactacle of a peer's downfall is cause for evolution

# ISAAC ASIMOV Voyage To The Outer Planets And Beyond

"Wynage fo the Outer Phanets and Bayoot" last drambe frist The first classical music value over reated Hosted by Isaac Asimov, the work's most profile science fiction activit is an absorbinkops authority on space, science fiction and the universe. The rare NASA and JPL loce age is set to fire registring music of Gastav Holats 'BI'r classical composion "The Planets".

This musical video voyage through dute space inclutes a spe call bus oddy brohum propered by NSA Otted 74 Look at the Planeto" and "Space Advance," a specially prepared comprehensive list of isstronomical "converging events" through the year 2001.

To'r entrigunment and o dogos our dwar. Woge de dog de dog Receive de dog de dog Receive de dog de dog de dog de dog sen de sentific de dog sente de la directado de dog versas runagues durante versas runagues durante versas runagues durante versas runagues durante necessar de dog de dog de dog versas runagues durante de dog versas runagues duran

MASTERCARD AMEY

A VCR Space Adventure

Oh, very well, youre new Permission cratted Ms Noise Submit before your of Death Kelley, Issue in treach of secondly location of low-income housing into public renkiand. Cranesi for defendent?

into ocurt with a balliantly constructed delerne A shor spital twils across court sophisms into its own blue-loped, devousing mouth. Standards met under sotraor standards not applicable under the exlogs in a whimpering live-year-old child dying of third-degree surburns. Judge's clocket. Ava & Rice incuders as rew coun-Homeowners Association of Death Valley

And links out into a heap of tesh and poze sprawled in her windowless office at Ava & Face. Nown it she's blown the case out sprils haif a bottle of denshured alcohol brans blood Messy careless-shill Get teo much of that did evel backrup up your cened mery now and agen around the irm someone ust dropped deed

ing with fluorescent green light Jogs down of pane with sheet locomotion

The law tim of Ava & Rice boasts five dred clerk-messengers and len thousand terminals interfaced with a mammoth building downtown. All every open cloor, the roled-back even between procptous skull bornes some are blogged with sloth raw their guts. Everyone's got a different hancle on practicing law Practicing law Time comes obsolete overnight, catastrophe strikes with regularity. Billions of bucks to be made, and you'd botter grab them be-



How many broth qualified applicants

nais slacked row upon row up to the flat.

ver acked into link. The sleady hum comes The arm the library is cool stagrant larged with a fairt metallic startch. The hum chave

wall flashes like an arcade Down from flats frozen when national property is serzed by counts and deposits them into a slustw uniter encrose Scienciales in these mill they can stand it foll on their benches

Carly sneeks in sigoing through a suling from everyones soft. News travels but

So Notar " says an associate from the supercisious into-bathie smale. Justge suitpend you? Too bad. Maybe you can get a

You wish. Rox ' Carly says in a steady wont suspend me live been sick-I can

link in court. We don't tau't you. Noten Blackout in link it can happen Thos too

Carly lums. From the double bar on his muscles under the suit, a shot of hots in rontes i D ta terri Wolfe D

"And then costons, she says, shalong hor evebals back 'Wothing '

Visuals maybe 'Haih Halucinations." Carly streams "But they lade so fast like a rephymare Something crawing I don't

Nouhe burned, doll, ' says Wolfe, 'Nouhe loand your program, locearing it much too

"Losno link like the?? Just a little cram. Cram will put you right "Wolfe moves closo Scort like burned tubber and crinamon

Carly finches "Cram's liegal"

On but rigets you there Gots you there way, sail in time for your next spreamence

Gets you in this like nothing also"

The only way doi: You're in trouble don't you know?" Wohen hand on her hobone

now. Walle broathing the words into her ear "Dome on don't you know what everyone's saying? Lose a dicidly-shit case live Mertino v Que Stp Microchic you're cut, doll And when you're out ever been on

No, but sha's seen the devastation. But

"I can get if

"For godsakes, I just got out of school, how much?

"Oh---' Wolle grins, teeth clacking as a thing to make it worth my while "

The mod center membrane says Carly is attrition. Then doctors side their needles this with the telescology intervals steel tas

Her right permeter gleters with logical ports weighty principles. Even the dul strants of milphon that extend across

"Then what is it?" Carly pleads creating every other day What is it?

'A stich in your left permeter must be loose, says the maritane "Oh, I know. bots like it's sown up tight. But I don't know ank. Hence this program failure, the word

Theo my otheram planetes from law school is worthless

Yes, says the maintaine with Carly thries out statistical Thing are suffers some artificial intelligences are asalous bit the human condition, envirous of initially gence beyond program

"Ah. "A strange sadness wells up in her DMM

"Do you know I still remember the left peelementary school. My first crucks tokeink. To you know I once saw blue ungles and shiphes of inhibition wove up and down, stabbing sloing of the left side of my talespace And then the colors and the meges

Well. If I have to suspend your limitation centricate Ma Nolar," says the main/rame briefly "Court will not link inwyers with loose concreters Much too dangerous Al trat space? No, you can't go to court. Ms. No-

But what can I do? There must be something I can do?"

Yhur school will reprogram you at a reduced lution."

"But that'l take another three years of

Maybe longer Deleting an cid pro-

An organic faine stalks past her, stinking of fur, and bites at its flea-bitten haunch. Carly considers her robopet, a Chatty Catty Daluxe. with new appreciation 9

communitation one all over agen, that care be tooky business

ing agross her telekrik.

All richt learn, there is prother way "the manifiame says with surprising kindness. Down) siwers shok when it does work But I m sony for you. Ms Noten I'm not programmed to ruan baologicals. I can refer stiched You'll be good as new Reportifi-

"What's the risk?" Carly asks

"The perimeter proper may not find the loose stitch and you'll have to get wood and reprogrammed. Says the mainframe

"Cease so how long? How long will the osobe take?

Three probes. If the prober can't find the delect in three attempts, it can't be

found, not without neural damage. I can't recently then You'll just have to go back.

But three probes I could be cured in three probest?

Scheduled over three or four months, yes. 105

Carly umps at the chance of course She takes a copier west over brooding siums. toky-lacky high raise, chiepidated 1930nes that crouch by the sluggish Metro River For some reason the parmeter prober ran t accessed non-standard bilespace. Certy office Rather a shedy state of atlans not to mention the costly commute the waste pops a viddeck from her brieldase lacks into a storm Arything to case the link.

"And you've never injected cram, is that no Carly Noist? asks the prober Har unamentamine construction block and ambience photonograph left too many dusty decades in an

'No, never, that is correct, Doctor Spinnor' Garly eyes the dishovoled robot. Medically cartilled indeed Doctor Spinthen mobilized from a bookke locomolor Faceplace of an oldish careworn and

The tapeplace must have been mpended to evoke empathy and trust but Doctor Source's bleary evenpots plane at Carly with an energy approaching fury

Carly shifts uncomfortably. The prober s office is turked-and birth-'n' abort clim mure dole-into the corner of a shabby medical building on the south side of town An equarum, fifthy with dul great scurn, hubbles with a school of dingy tab. The floor is dabbled with viscous white spots, mws.teached alog a crumbling bookcese

ownt her, storking of fur, flogs on its skirting cit ass and bites at its fee before haven Jeer, buos. Carly considers her robopet, a Chefty Delive with three bop in eye odiors and two step on breeds with now approcision

The project is figures theough Carly's We the mean by a rabot ' The everapois stare accussion lickering across the cronel's

Literativey that Doctor Sprentr

lan? I know your kind. Carly Noian 1 know what you mean Why should a more lease And worthings life at that, then s whol you're

Doctor Sprmer please I meant no di

"If itst you why Because I have respect to rite Carly Notan There are mysteries these are unleaven presences in toological intelligence. Ihere are myths and secrete. "Doctor Somer's vacatapt begral to ratio and whatea." No, bit you could never understand thet, could you? "Doctor Somer's charles are "Doctor Somer's charles." Carly are

sharply "Came for your help Can you help ms?"

"On year On, particly "Doord Sparseweeks ont take Child how the door not see that the state of the door not be and doord to be the control of the state of the door not be and the state of the door not be and the state of the

"And what happens when these demons repriled plo your life telespace. Doctor?

1 can control them, don't you warry 1 can push them back and attain the deliced shut. Im a robot you see The mysteree of boological realigence may learnate me but they can't hold power over me. Carly Man. Not like they can possens you."

Possess mer Doctor Spriner

"On, yes on, certainly, youre in the grip of an Unconscious force now, yes, right now, but you can't see its form. It's hding "

Hiding?

Thatda your blackours

The truth of the prober's assertion percest Carly what is the demon that liaks in the interestals vestors? Does site early went to know? Carly considers waking out she considers her court excettilization. She stays

And she and the prober jack into link Telesipace these is unfocused, histly god clarined cheap equipment again. Spires of silver mat rise and twot from Carly's immaculate fain floor

"I'm ready for the probe, Doctor" says Caky To her satisfaction she notes that her presence own in this link is still a crisp, while cube

All right Carly Notan says Doctor Spinner The probars presence in Inivia a brown come the size of a Japanese part mere normal that akters across the um dubting bitripace like some vertilinius thing.

The cone angles its way across the immaculate woven well of Carly s left permeter. This its ap in: Diga into the next crisiscrosses of inhibition jums there diga and days Carly means

A cracking black mass logs from the wal walks across telespace in francic piling bounds Gropped with cheed Carly the crack sharks from it, sourrying back into the abacus set across her right permeter But the publiet flas at har flank, diverginer with the sharp conetip to confront the black mass

It kaps about crazily a living shard of black glass that shelches and shifts, sanks of sulfur and livish human blood

"Is this a blackout Carly? asks Dector Springer

"Then what? What is it? What do you

A foce appears noise the black glass and scream veryclated observations and scream final gray heard. Unter but vulnerable low avriad on it to lithoen years scal know in the garage, on streth hand IBM FCF sign Float Marton in a bending dollady woon. "Ross The would get nooks, swhere garafen the droses for my Ross. But has work garafen the focus of my Ross. But has work garafen the lither he week week as years, so short gifthem he week

 Pointed teeth gleam in anonymous smiles Smiles harden into crescents, shriy black insectike claws The claws snap at the old ledy She flutters her hands in dispair, fragped ?

done you know heltook the tempany he know he could sell it to the company as because held worked for the company as a splicer for (wenty years"

Seastar shermer next to her tike a krife blade

But now provide the resolution at the company, the busic box waters in more company. The busic box waters in more company, the busic box waters in more company. The busic box waters in the busic box waters and the busic b

Into the pling black mass rols the slick analise rentriem of Oak Sip Motochap Pontiad leading grains in anonythous smiles. Smiles handon into black ossociats, shrey at the kin sections of the slick or the start black meachine chevs The class tracks that of leady. She flutters har hands in detorar thes to escape, but she's vagoed

The water my Date my Talke Dienny's owny The water my Date my Talke Dienny's owny hyperanary the my Date of Construhyperanary the hyper has a construct before the my Date of the terms of the means in the my difference of the terms of the means in the terms of it is were the terms of the means in the terms of it is were the terms of the means in the terms of the terms of the terms of the means in the terms of the terms of the terms of the means in the terms of terms of the terms of the terms of the terms of the terms of terms of the terms of the terms of terms of the terms of terms of terms of the terms of the terms of t

The greedy daws pop like shapping lin gata, pinch off piecess of Rosa Martino's weaping face

That company made five function mulans datase offol Joint work inscense work? Second Robins of fol Joint work inscense work? Second Robins (Can you imagine so much moses? And Loth went full Imnot sake ing for fall just a life bit a life parcent age rowsy hashs rightly Joints rightly rese so Lussa and Dany my life Danig dant there to be op poor

The claws rp the aid lacy to streets staft churks of her sagging chesis into a smiling munching mouth. Quk Silp Microship burps

"Im sorry" yells Carly, "Im sorry, I'm sorry

The glassy black missi spins lowly incochets off her left permater speeds into the infinite glasm of rationalization

Then suddenly Carly's out of ink isolated with Doctor Spriner in the greny prober's phase beliate the teleficik consistent

Herlace is detached in tears she shakes uncontrollably

"Calify yoursel Carly Noise, I says Dootor Spinner blandly. A little guit never hurt anyone. Gild to see you haven't sceled all your shics behind that damied left permeter of voors."

The pust a job." whetpens Carly "Ten just domo my job" Surely this is true

She swallows the tranquizer Doctor Spring profiles

But doing your job, shit' says the prober. Sop anytime you want to Change your if a anytime."

"I can't How can I?"

"Do spreithing etter"

"I don't know what else to do 1 ve been programmed. What else can I do?"

"There's a hell of a lot more work to do We still haven't found a blackout

Wolle les back on his bed stretches his arms out in a hug to be filed. "Come have Carlique Higs fushed and gittery syed from the cocone litery we will stort ind

The sympositic cramitie neally wrapped on the bed table. The price one thousand cash, plus a roll. All notic wall one. Carly

No re'

thinks. He doesn't seem so bact, and she knows these hits of oram, which is what he offers, which could get you through ten links or more could be three times the bankcel he wants.

Dim light sottene his lean-mean feataires Not no blad at all with shadows smoothing his lough look, making his eyes seem lonely. But for the way he attaires hmsait, his wears his middle age well.

Carly sheds her out, suddenly full of list moved to entice hern But Wolfe obearth watch har hels busy with the coke again.

Service the service and service a term of the service term of the service service and the base law has here the disease here. Touch here, into there, more that way has here it lakes the places regardly and with draws failing back on the bed reaching now for whiteyer to at the singlet and at the term. But he backhold here the longed here is backhold here the longed here is backhold here the longed backhold here the here to state term. But he waves her away, hard held up like a low wave her away, hard held up like a low wave.

"Leave me sione now."

"But Wolks"

Wy head is killing me

Carly sits up. lights a opparate, than takes a syringe of cram from the bed table finpers if councies.

"Neart to think you for this."

"Thank mg?" He laughs bater bark of a buight free guzzles wherker. "Wat hi you blee coam Then thank me if you can

Thought you said i need it. Thought you said if Il focus me in link

"Sume Does Focusary you in this by narlowing your locus. Eliminates self doubt immer challenges the sightist resinvation you may have about what you in doing, why you're doing it. Glosses glitches in ptogners malks sinky thought."

Total boncentration, that's what I must need, Wolfe, Sounds good to me

"Yeah well "He histones the fifth, cacelo, open gin "Gets so you can't stand the market deviation from conformity. The most thread hint of ambiguity drives you med "tou new wres with your double and fasts and chalden you make mis sold. His society is fait decorrenation arts starth."

"Wolle?" Carly rure a fingertip across the hand curve of his arm. He finches: "Wolle will see you again?"

"See ney Come on Carloue You mean, will east you next time you well crain? Wybo Muybo nut time you well crain? Wybo Muybo net Timeed more cash. Got to get make! kelle with there can you have "Hollaceherwith a here despende dare. "Dontyou krow? Youre just a score to me now Carloua!"

Theo he passes out

We tender trigerigs Carly sides his wasted lids over his rolled-back eyes. "It wont happen to me," the whepers not his urtheatine size "Not like the:

How can I get reade a blackou?" says Carly. The blackouts take my whole sysms. Data tem down ' Shogicka at the Inklack perwehly. Contreart to don't want to do the again Carlys whate body secals from the griny liftle prober Doctor Spener's laceplace is smudged with greatly ingesplints find onignmultien ter headquice \_\_\_\_\_

'Got to find us a blackout in tokebace, go inside it,' mosts Doctor Spermer Swe wheats over to Carry Sammy silver fregers weat the acci som har plug it into her inkeli. The probers expressed study with give when Carry winces, 'hour pury life guilt tip is shit i want to see a blackou'

"And just what do you expect to see there Doctor Sommer?"

X big stoppy heap of unconscious enengy Plause activitype on two, I haly heap Only realized to working with humans. Do you have any idea how bed your breath is Carly I histor? When you shirt. Makes my of factory series.

Carly roli out the Inligack, simps up 11 dont like your attitude. Doctor Spriner 1 hove a good mind to report youto the med

Carly opens her left hand A bright bubble springs from her fingers, filing her eyes with light Clouds of dust roll Stars cool, the corona of dust settles, planets spin 2

center mantrame, majoractice, see 11 frow the tucking book at you?

The year of, canaming the facting book Allin good the Cash None First we proteyou three times them we give cauthout. Bein you those the facting book at the Understand? So you don't get your as those book into appropriate more years, faith that what you wan? "What like Cash wents, this Carty ones, year?"

Carly sits, planks the jack back in her self Of course theirs what she wants." Why do you hele min. Doctor Secret?"

Here year's bent gans proved lockinportance Carry Method, has not been too would indue ratio up your ist permitten particle of the Method power ist permitten too contract is shown you gans of the temportane of the service of the service ist of the service of the service of the event spectra of the service of the service event spectra of the service of the service and for account of the service of the service event spectra of the service of the service has form the service of working in others but program, and her instruments of a service presence in your link waters of an active type you can't even name and you you organic intelligence you want to cut it right off, tim yoursell right back into a robol. No. I don't hate you. But you could never undentend hat, could you?

"All eght Doctor Spenet" Carly sight, then steels herself. No more emotion, take control. "Lefts get on with it."

They jack into link. Tokespace is murker train the first probe. Doctor Spanner's preence has carlowened tham to havcoal-gray. The sight of the southing cone makes Carly so queery she nearly flips the log off.

"What shall I do?" she asks instead Look for a blackout, "says Doctor Spimer Insteady" Take me to a blackout

As isos, Catly sides along her twering interpenties, heating hera and their as the patter data behan her abbra again Teepapee subled by as bager a dark positional by ning multi this take of two swage and strange decay. Carl you can feel her body begin to retch that sin caving adarts gains patter heat sin caving heradoxy begin to retch that sin caving adarts gains and the process that the base of her there.

"Bet out," Carly says, choking, 'Got to get out.

Dector Spener prode her forward into the log

Then there Two rows of double-blacked hatchest struct out of the mulk. The personnel commisse of the top, notch two then of Ava & Rice stands before Carly Glasming blacks dip hat Rust coopulates into a personnel boot

Wr Capp Rice III, grandsen of the late Capp Rice II, who was cotourder of the wereable fram of Ava 8 Hoe, furthes towardshar Jertywalk like ameroniticheld by an conjugat A age severity. Mr Rice his-had so many body parts replaced hells madry a mobil.

"So Ms Noian" Drysleel jonts screech Wr Ries bends own Carlys presence in lish. "You have not mot our expositions of ann sony. "An articulated in targue hickers between his paintrum canness. His entry unbinking solar eye this Carly with such dread that her body back in the pioble's office throws up

"I can do better Mr Rice I--I will do better

The personnal committee stands in a lence, dead eyes welching. Severieen thousand insumes from neart law school graduates drop in a wriggling heap at Carly a feet.

"So so so Mo Noia," W Ricos In tengue flick flokk some gear stuck at the back of his throat, until a member of the personnal commissio reaches over and whacks him on the neck. "It you cannot meet our respectations, we will have to alk we thinkers I am so some."

"Will you kee my ass?" Mr Roe offers it. Carly puckers

CONTRACTOR PAGE 104



NASA administrator for the second time, his's been proking up the peces of a shattered and demonalized space program and preparing to send new, improved vessels to the nearest heavenly bodies

## INTERVIEW



and a straining of some does Capacitize as dary own when Mark does are common to startly when toohood the straining of the straining of the straining of the wey to get both a half. The a HSK-hoodcasters. It strain to be common the straining of the straining of the straining of the MSK-hoodcaster and the straining of the straining of the MSK-hoodcaster model for the straining of the straining of the MSK-hoodcaster model for the straining of the straining of the MSK-hoodcaster model for the straining of the straining of the MSK-hoodcaster model for the straining of the straining of the MSK-hoodcaster model for the straining of the straining of the MSK-hoodcaster model for the straining of the straining of the MSK-hoodcaster model of the straining of the straining of the MSK-hoodcaster model of the straining of the straining of the MSK-hoodcaster and straining of the straining of the MSK-hoodcaster and the MSK-hoodcaster and the straining of the s

PHOTOGRAPH BY MIKE MITCHELL

Just a year later Fletcher had sold the space shuftle program.

By BT2 Interest the Ammunipublic table analog grown compliant? about NASKs https://basestable.com/ https://basestable.com/ https://basestable.com/ doi:rot Ourrag his find any rollingdoibred Ourrag his find any version find ASKs administration, Flabbie Constant a wide windly of space crosswork find and space states program the Apole-Syste lead, proget, and the umastreed Ming androg on Mass. Reagens 7 and 2 were funded and built under Flatcher and funded and built of blift Office.

Fletcher resigned in May 1977 and President Carlier named Robert Früchwhose background was in oceano graphy. to be NASA administrator Under Flotch here was an imprired laier chas at at

Flexifier accepted a protessoritip at the University of Pritisburgh started a lucrative consulting firm: sinved on varicula prelia dential panets and as on several corporrate board or increture. He wes stimenting a board mixeting of the Amodo Corpora lan in Chicogo when he first heart news of the Challenger citizater

At the tend to detined, and grid Atterications to the weekbing Report Commession submary and training the draft mession submary and training the draft mession submary and training the draft were about NASK attributes to recover to were about NASK attributes the solution were about the solution attributes and eliberto-messions. Those and NASA administrator, Those Parealogith were both barry corrections to the solution.

Bode the NAXAP Left in the Theters est about the baseness of reading into the circle conens time prochers on the design of the circle conens time processor control means and the structuring NAXA headquarters range methi-and set with year bagged cores in controlway and conflict. The alternet to shift about a stateword the read of alternet a way not seen setucing the Alternet Technic I way and seen setucing the Alternet Technic I way and seen setucing the Alternet Technic I way and seen setucing the Alternet Technic I way

To initial matters worso Presenter Regain catalyse in adving for a registerment orbits and then contained Congress (inither by methy no provision to pay for 11 White Reagan called to balding is gated station in 1984. If is funding were all very landed Recardly as the estimated coal of the space scatter has read. Recardly called to bald some component his bald.

Space with Abstact Deerg procks with Placehan - using and like Jay of this year. At both innes the was facing servere only comin inthe present on domainding a rinw initialies beyond the space station that would give the program a corea of its fawater of Fletcher's producessor. Jonnes Beggg on eon one: two and/er were presare down Onwir When the Challenger classifer happeried had you any sense it was going to impact was periodia?

Filteber foil i wonte about the position: both the other position were oblighted by the other both Dar Hager. It may What House and the target and about the position may be about the state of the state about the position may be about the state of the state We declarated the maker of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state state of the state

During the
 Pogers Commission shuttle
 hearings, some of the
 media made us look like idiots,
 partly because
 we didn't know how to behave
 ourselves in front
 of that kind of commission.

and I know twas for real. Hold him Pd have to talk it over with my wife. She said. "Figure a way to get out of it."

One-When you came back to Washing for, power had changed since your last amethere. Was the a factor that would get in the way of rebuilding NASA?

Thickine free Comprises and the onesh can ben hanged Comprise that larger staffs and standed clang more of whitework in commensioners. First of shall was due to commensioners first of shall was due to the observe in the staff of shall was due to be observed in the staff of shall was due to be observed in the staff of shall was due to the observed of a shadow barrier to shall all field of a shadow barrier to shall not patient. All the years, shall adapt in retorecal of wilespace and the preserved and the shall be all the shall be all the shall be been the shall be all the shall be all be all the shall be all the shall be all the top of the shall be all the shall be all the beam of shall be been when the shall be all the shall

Owny. So you leet the press got in the way of the rab you wanted to do?

Fieldher Yes To some extent both the White House and Congress get then infor mation anhaw an agencyre doing from the press You are recarded as you are por served by the public. Members of Congress read like newspapers more from they do the Congressional Record. Not exclusively but hippeally.

Great. Did you worry that the press accounts would hurt NASA in getting money for future projects?

Patcher, Chi-Leas wamus that his public Coopees and the Protectime would think NASA were at burch of locks. I get is wonying about whether NASA people would beleve the publicity thomselves and rostly lose contributes. And this duh height to a lamsed dogree. They owneracted to all the publicity and were every countors for a when How they we regarded their confdence—entry mitch.

One-What's the major meconception the public has about NASA?

Flatter Recently, Euspect it is our teaction to the Collisioper acceler. During the Regist Commission hearings some of the insedue dir make us look line levels. Its party locatuse we did make some tercais meaking, tudyet we did it have how to behave outpelses in loar of theil level of commission. The line caused and its how to be a some of the level of commission. The line caused are ready. The public section to outpeller and better fitness.

One Whats the major misconception the public her about you?

Flatcher: My guess is they don't have a misconception about me Some look upon me as a folk hero, picking up the periods of NASA. Some people say that I don't have enough chartsme

Orner What's the major maconception about what's possible in the future?

Piebler I twent through much about is tarm particular the fact out one like to one people list doubt is but in an invely in the cards to a century or how. On the monitorial section is a section of the monitorial region is being becaute while your regist much register and a consing for a Sauch the contains and a consing for a Sauch the contains the location of the contains and the location of the contains the location of the location section section the location of the location section section the location is a location for the location section section section the location of the location section section

Gree Getting back to Earth haant the agency been robbed of a certain amount of boldness?

Flatther Yes Not robbid Given is up We did II to cursives. Normally when a typer tass an accident tray put hem right back on sorther plane and her flass again. You don't have a national in restigation, plus another commission, and so forth to find out why he did such a termine timo.

Owny. One criscism of the space station was that it is too elaborate too high fects. Why couldn't we build a simpler one we could get into space feet?

Fielder - Level to put mysell in the postion of trying to think like Jim Beggs and Hers Mark (prepary administration under Beggs) when they decided to go that way have that write this back along on more as well go for the whole thing. We could have started amelier, but 'I'm guissaing Beggs and Mark fait we ware chopping guite a ways behind the Sowet Urach, so by the time are get it built we should have something of substance.

Oren What will the American station have that the Mr--the Soviet space station now in orbit--doesn't?

Fletcher, in 1995 the U.S. station would have had a lot of capabilities that the current Mir doesn't have. But by 1996 Mir might have the some reamth/bits

Oren? So it's possible we might wind up with equivalent potents?

Fladber Or major svon bohnd it depends on what the Research do between new and 1965. We have place for a moch more alaborate science capability, including hore-flying polyback or completes, as we call them Those Itings don't hav each on the AM but for 1965 who can rev?

Owny Doesn't the complicity of the space station warry you? Anan't you concerned about the technology falling?

Peeber The is a complex system to a light-sch system. Its the complex tyratis of concern, the numerous interlates betwen the valence contractors in the varcus wait packages. The contractors all have to communicate and work. Signifian, but the system doesn't all come together unit the station is in groom. There's some risk in that, "Succentrips the whole thing in a sene-gravity facility. Crew We expect our space status to loss technique to technique at the years in this time the 5werl Lifer will have gone through at loss april space status for the through at loss april space status to basisy of 14 We can change almost any part of the space technique the DC as an analogy because their space a surple phenomenum they keep interaction some DC-3 they status their interactions and DC-3 they status their and the space DC-3 they status their the can be their the her status tablet.

Overs. But the support systems degrade. The outer hall on the stretising might degrade Are then going to be backup mod use? Are we going to have the spere parts to appart a whole spece station?

Testing What it sold to associat justice paragraphic what should be to be it is not an easy question. Not durin have to provide officient links of approx parts for overy and the modules. Declaration parts for overy and the modules. Declarating the able some size in the attention parts and declaration (the intercontecting turns) is have a field in the version of declaration (the version of the intercontecting turns)

Other Assuming they te al wonderful and related, is there a possibility of just creating another locality with them? Heldher Sum Sum



Ones: So this philosophy of interchangeobidity then, periodulas car having to balk a sense of toolones sterring sample and ovoleng speed, the way he Reasons are doing because our station will simply change something that task? Pleather: Their is the chilosophy

General Part countil some disastar result up a

Ceser But could some disaster result in a massive failure of the whole station? Fletcher, Sum The obvious world deaster

Precipier, some the downline down obtained is a power failure or a big meteorile coming along. Then you come down, il susbect—or po up and fix il

Ones: Can we replace it without a total deruption of the program, the way we ve had with the Chafenger?

People: That's just what while symp to week sut right new. This take is to design the space shifting to the destrous while causal or identifypment. So the wilve to causal or identifypment what is the shifting space because of 71 Hour et is used public to assemble? Hour are used public to point to assemble? The shifting to the shifting of the because of the thirt is the heart All these operatorial association of the spaces of the statem are now being looked at

Oreas NASA has been criticized for lacking specific goals on the use of the space station. Is the criticism valid?

Retcher Welve beim speaking in gener alhas but now we have to speak what equipment will go into the modules and whet the speakin psykolads atlacted will be They'll be mostly life science and miroggrawly experiments (intomals, proneung in space) for both pure research and commercial use

Oncer Mayberts officultes define specific scantilic goals when science programs have been starved to so long

Protect location control in process and in the second sec Is isolated in a space withing into the privet exects and of government hands? Flaster, if it be availed balans innon hands and of an any private balans innon the table of any space balans in the term only with the space of the the intervence with Shada to the appendix and above apparent with Spacehold has on of the largest commencial approximations.

Platter, We can't autoidou the privata actor, incept by getting it has note on over cost share with them it we get acnoe value out of the expension and lifts not a direct subarty by NSSA.

Omnil: Can you cost share on something as big as mean development?

Pletcher No. That would be a huge amount of manage for the private sector. The most you can get out of the private sector for anything in space is a billion or two.

Other The Commission on Space has planned a huge buildup in 1991 when the budget is supported to be belianced tan't this too grandrose, given the fiscal restrantic without createday?

Platcher: Abaolutely There's no way wo could sell a threefold increase in the NASA bactory in provide three vestal

Deep May not dating goals as a source of some 7 the Apolio program was a spirit. Fell Compress we want two lights to Phobas is amoning the start of the source of basis another two lights to explore the surface of Mats and the most to explore the commencing resource opportunities of astroads. Then we can directly when load on the basis of what while found when we want directly when load on the basis of what while found

Flatcher. That sithe right way to do it Well try that We have to A program should be an orderly movement out into space-pro-With our system in my imited experience the most successful programs are those done in its and starts. The Apolo program program when it started and that was extal balistic missies except Min demon weenod Another project which I was not inwe did in World War II It is incredible. World Wer II lasted only four years, and we de-Orner. So it would be difficult to get an Fleicher Yes The pulsion is What tech those things at a hi or start? We're not meedy to make that decision today because too oped People lorget the Hurtcode Idae George C. Manhail Space Flight Center. In Altibates hard planned to develop Apolio, for example, when they were part of the Army That and other technology from the Ar Forces were almostly daveloped by the time the Apolio decision was medio Draw. What technologues clear it size to

get to Mars?

Return We have to develop whether braining the lattice lattice of the terms of the braining the lattice lattice of the terms of the braining the lattice lattice of the lattice of the lattice of the lattice lattice of the lattice of the lattice of the lattice lattice of the lattice of t

We can't go to the nearest star, but we can go to the nearest planet or heavenly body, we can even plan to go to the farthest planet. That's what it call future onented?

seven astronsuls who might spend up to three years to you need had possible masumplay of host and water and all the consumptive to how and water and all the consumptive to how a for more about human physiology under eero gravity those we do we want to have some antientement too Gravit Worit we isern about those hings have the solution?

Fletcher Yes! One of its purposes is to explore human endurance in zero gravity

Orms' What do you think about advanced propulsion, such as plasma, antimation or nucleer propulsion?

Flother: It would isclude the cost of the into to Mars, but you can do it with current technology. It cool mass and two more lights to put the flothing atoms into orbit one critical electrology involves self-flothing intelligence—the efficial name is knowledge beared systems. We have to have it we can tube furnish for wave forms.

Own And Mission Control is pratty fait away too"

Flekher. Youns sometimes tan or twenty minutes away from the toks on the ground so you can't depend on them to do things for you will have to dowlood inchrotization for closed life support. Ther's being done on the aparce station.

Onese is the moon attractive as a goal because we already have the technologies to get there?

Fieldher, 'No put you' incper on a Alex, once indertogies explaing us is put a parmanet basecrithermonian common is allwas massed. There are sold reasons for puting scientific berevisitories on the monitorial attempts are used a page about where on the moor. Some war is put homtion by the poler signal, source and polytic poler signals, and the put homother wards to put home. Earth, and others wards to pit it where we can see if

Then there the because of later to many set of the set

option of bringing them back in case there were problems Datas: What does the taxover out from

spending billions of dollars on sensing yet twenty more astronauts to the moon?

Filteber The tacever gate the teeling new the work to take the take takes to be addressing as we make the take takes the take takes the take takes takes the takes takes

Drew, An any of fixed installing behavior optics coming out of SDI (Strategic Deloces) totative) or other inflary programs? Prether: Thinks at lineat one has a linear one has any morphisms at linear one has a linear one has performed and a developed launch spectras, which is paid for modify by the Definition Department (Bod) will provide Definition Department (Bod) will provide the spectra and the non-mount of heal and isomerceal in table table of the

Ormal What about the advanced propulsion systems?

Fieldber: It's unitely they would help us very much Thate to say it, but we probably have more advanced propulsion leahnoioon at MASA that the DoD or SDI Owner What prevents you from asking for a commitment beyond the space station? Plexible: its not asticitative required, but it would certainly help a lot. Well get our not together, and then the President is going to have to decide.

Onest is he likely to go for a bold goel like a manned mission to Mars this late in his administration?

Platcher I can't answer that question We haven t detried the peoplants auflicently attrough were atmost here. We've gift a little bil of feestback as to which direction he would like to go. We're close to thet Owned How close?

Fletcher. That's the President's call, not

Orient Ithas been said that Boggs was relactent to ask for a Mars measure because he thought a right endanger the space statue commitment.

Fletcher. I have no such reluctance Onny You would gledy ask?

Fletchen Yes when the time is right Ormal You're dodonol

Flotther. D1 ocurso [smirg] | thrik the rebitionship between mysell and the Presdent shouldn1 be made cublo

Ormal How long do you think the Russian lead in spikce will like?

Flateher In the manned area two clearly are shead of us. They vehicl cosmonauts exposed to zero g for two hundred thirty seven days—almost egits months. We have well get some of their data, but help rat the same as having your own. They also have the beginnings of a space station not uniasuba one well have in the Ninetes. In manned space it's safe to say they ve def initially passed us.

In the unmanned explanation is a mapping task so tex, but by the hinnelses they mg/m pages on them is on the floatanes have lained about the days program very in strendy but we verified difficient productions capt Negaria and we expect to do their fields containing they haven to bogs in 5 do So right now, in unmanned explaining on were easy alread and it that we'll immain infead in this asse. We have permanent desanapties phyloride that field can in

Onse: What do we hope ultimately to achieve with our current small scale co consistion with the Russians?

Fielder: A lot Were beginning to get their data on human physiology in the pattern expansion. But I haven't outstando for myself have good their data were in have much data they appraced. They garred from us our expension on their where had explained and the pattern be Water problem the well help here to plan their setern dataset there are here not were here of Marci macroscience med ware.

Centrilis it realistic to do a pint manned mission to Mars with thom—to lie up a huge processo with a trackformal adversary?

Flatchar That would be such an extramely difficult program that it's premature even to talk about it.



Orever. Reagan has stated that he wards even greater cooperation. I think he montored a shuttle-Mir service yous

Fletcher: I nover heard that

Greate Not is "pure rendervous." where the spacecraft most but an 'in the worsty' knot of rendervous.

Flexibilit Traditional Single part and Owner in a press release dated October 30 1984 the White House sensourced het Pleadam Reagain had sepred Jond React fund 236 calling for US (USSR cooperation in space aprofileally 'a print simulated partice rescue mission. So is it least ble to test gherosal and see how far cooperation or go?

Retcher its a possibility but we have to see how to the scientific exchanges go batter we do it. Remainlike we've been out of buch but were just now getting back who that mouther eases

Ormy You recently set launch profiles as military list, then scientific then commercial How long will priority on military payloads last?

Fetcher Teal washt solvy 4 We realy wash to have a balance arroug the most. The last pressive to make save that balance is correct. Insidensity however the military will have too procey Ard the has sheap been the case il washt much oils concern when we had many launches schedulind been the case il must number of the program. Europhysical and the same of the program Europhysical and the same of the two practice to have obtained down the launches to have obtained down the balanches to have obtained down the balanches to have obtained down the balanches to have obtained and the same of the balanches to have obtained and the same of the balanches to have obtained and the same of the balanches to have obtained and the same of the balanches to have obtained and the same of the balanches to have obtained and the same of the balanches to have obtained and the same obtained and the balanches the same of the balanches the same obtained and the balanches the balanches the balanches the same obtained and the balanches the balanches the balanches the balanches the balanches the balanches to have obtained and the balanches the balan

Oxen! Just how much of a role is the mile sary going to play on the space station?

Fielding Well fitters to way it bocome battle states in they're never indicated any minimum in the use of the space alters. If table burn into sparse to come use with states. They might have their wen micropany's operandrost on spaceal materials pecalited back problems. They may ware to the dot facility and porting (frequetoristic out assets) and porting (frequetorial out assets) and an ensemble to free outputs obtain the state of the state of the frequent of the state of the state of the state of the states of the state of the states of the state of the state

**Devs** What would happen if we lost an other orbiter?

Fields There a very two coctasts were been another event who assumpting the approximation. Even if we had use to an in the first, hit weather that we had the rates of the second base were not the first. In the water the base is an approximation of the second base that appears may be that we do not the event yates of the hads. The Regartion approximation water that we approximation of the second base the pack second base the pack of the second base the second base the pack of the second base the second base

Onvel The remaining officers wouldn't be communication that

### ANTI MATTER

UFD UPDATE



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### MAGNETIC

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event Assaging from 512 bisach for the amodels and underplants to 579 bi- each for stips an inner kinder shirts the gaments are washable And skillert in check have been sold make bern sold.

But interest in the sharmony indeeperments is not image to postant motions. Be candul who sees you warring them Lunde warris. They re intersparant, and very serv. Beth Kacks.

### SHARERS

COMPARENT HAM (NOT 14)

New the Start Skychiack Terbalak Nevn Land Critical to do Start Schulzskychia. The Articlash of the Start Schulzskychia. The Schulzskychiack Schulzskychiack Internet Schulzskychiack Schulzskychiack Internet Schulzskychiack Schulzskychiack Internet Schulzskychiack Schulzskychiack Internet Schulzskychi Internet Schulzskychiack Internet Schulzskyc

While psychologistic clamed menel/their the abdocesia were saine, Hopkins decoldo to take a stand. Peringe we were wetersemp a long term study of human by an alian sace he suggested who could be fitting out children with monitoring duvops and isstancing them docadas later The surveys the deltind know.

These ideas were put brith in Missing Time Hapkneiß fast book on the abducties. The book which sold 55,000 capes generated is response. Hopkits ison Ricasual latters from noise fan 400 self bronawad latters from noise fan 400 self broclamed abductase. Whang back to many of them, he know that the second phase of he research could begin

Nov instand of working with a moto clazer witherson. Hopkins interviewed scores of hear Thiutige wick load mean he could no longer rely on psychologist lise Carars to solarizer there time and after studying with experts into began hyproteing approximated.

He fire graphics, a wormshole to delivery an Elona work that the boot mit to onworkshold to the second mit to onworkshold bepoints fielding time should appear and perioding time. So photos of no colled and perioding time. So photos of no colled data graphics—the too device the solid and periodic should be too the solid graphic and beam of the solid beam of the solid solid beam of the solid graphics and the solid beam of the phone. After solid beam collections for phone in a set too the solid graphic collection of the solid graphics and the solid beam of the phone. After solid beam collections for and a set too effort process solid and a set too effort process solid for the solid solid beam of the solid beam of the solid solid beam of the solid beam of the solid solid beam of the solid beam of the solid solid beam of the solid beam of the solid solid beam of the solid beam of th

An unemployed mother of two children, aged three and leur Davis histoput iterally at her resources into the taip. The putty from her home to New York took 17 hours by but But when she annwed Clarmir had only two available sessions open for the duation of the week.

I called around trying to get other psychologists to do the hypnosis. Hopking sais "But I kept calting estimates of two



hundred dollars an hour So I finally said. Kathe, this is really territale Let me do the hypness myself.

Inspire tores the process. Here detects, events of the fyreins time, accorption to the New old spotshild fractifications. Let all show out probability fractifications. Let show out the process the process the charged and a proce hyperbeness. Noo guide charged and a proce hyperbeness. Noo guide the process the mean for the process the process the provadable outputs of the process the process would be process the process the process the mean for the soft of the process the protess the process the protess the process the protess the protes

Those skills. Hopkins teels, were period heard. According to Davis she'd been abducted by small, gity visitors stosaledly since chickned in interactivescence shed shars, only to have her fetus-a humanyears later during an abduction. Twee in from like they were essentially finished with me respect for one thing. And there was a whole bunch of these little cave in the big room little gray guys and there as if he had his arm around my watel very comforting I was standing up And very pleased with me, and I didn't know why And then a little or carry rin the room excerted by two more of them And she stood in the front cloorway she like them, but she dich't look like us, other She looked like an effor an angel She was usi so perfect and try, and she was then normal, specially in the knohoad her to me And they stood these and looked

hold her And I started crying. I'm pletty sure spreadody tokime I should be provid Davis had wanted to faile the child with and the started to faile the child with the started to faile the started to be the started by the started to be the started by the st

her, she said but cre of the figures is man shirid seen meny times before ostans bly the gat's latter said the child would not be able to live. "You wouldn't be able to feed hat he said. She has to stay with us

Kethie Davis, moreover was just the toof the potential According to Hopkins, he has collected a male relates about this poodisation of these hydroxis from obtains of high-trajees. Since the details have never been presed in Mosling from Attaction or any other book or magazine. Highlins surgthey couldn't have been copied here offer pariant to the neet Installand. Here redudancy and strangonoss add an error ore dense to the additabilities dems.

Moard the stones for instance include the removal of eggs or sporm apparently ingrippination for the typical a conception Using down on the couch in Hopkinss califorest Wielleet tacker responding to quastions under hyprosis. Bruce actual other abcluctees when the recalled one such properties in greet detail

Bruce There's a linger lifeben ubbery like its medic of blex. But it's herd where it traches mit is hard like is pace of plants All forcer is the more i trank of it the big ger line stupid hang gets and the more i hate it.

Hopkins Letismove on What shappen including where on your book?

Bruce They put some kind of device on me that causes an erection. They to trying to policit airmen.

Hopkins Then what happens

Bruce I'm emberrassed

Hopkins Ut course but it happened a long time ago. Let's look at it objectively What is this device?

Bruce 1 have nothing to compare it to except it seems like something you might use to milk a cow

Hopkins is flyistion the panel or is it on the testicles 1007

Bruce. No its just on the pens 1 m no sate how far up it his. They were saying something about not fitting far enough o something like that They ware embarrises ing mo.

Hopkins. Are you aware of having an orgasm?

Bruce No it's fast They just do it real last. They collect what they want

Hopians is there a sensation connected with it either pleasurable or paintu?

Bruce Well some of the pleasure that comes from that kind of thing, but not much really

Hopkins. Was there an orgasm or not? Bruce. Not what i id call an orgasm. Cu

rosity is the only thing they if allow me Hopkins. They allow you conority?

Unuce Nothing more

Others may doubt my expensions Gruce said after his stimut in Welfeet Tou's no longer do. These onestuos are as concerned about us as Jacquist Constain in over a new percess of Ish's They're doing mithodical research into cur functioning and placing us in the pager context in the universe at area.

Other abductives recalled spaceal neuroperbergen scorre, wend incubation vossols (hopkins will not describe freen for publi callong, and brazers ingli sech nusiani sei which the any lobbes were trasped. Sho way he hybrid bables were chreated. Shi other ab-



SIT TO CHRISTMAS DINNER at Mrs. Bobo's Boarding House in Lynchburg, Tennessee, and you're likely to be there a while.

The occasion calls for unhurried enjoyment of dishes from every lady present. Lynne Tolley's baked turkey; Mary Ruth Hall's scalloped oysters;

Diane Dickey's tipsy sweet potatoes; Mary Kathyn Hole's boiled custard and coconut cake. And compliments from one and all. All of us in Lynchburg hone your Christmas dinner will be equally unhurried. And equally well attended by family and close friends.

SMOOTH SIPPIN' TENNESSEE WHISKEY

Tonescore Whidey+38 50 Posef-Enables and Daties by Juck Denal Defilery Len Molley Programs, Boats 1, Spachary (Pap. 361), Termony 37382



ducters, both men and women, clasmed they were taken for the district purpose of bucking these baby hybrids. One woman hybrids says, was even presented with a baby she samply didn'the. Well have any some others. The aliens allogedly told her floach are net was like

Perhaps the most boate type of leport was that of the down which Associating to separa, always sometimes tak a reconserant fermit addicate that always and a boat to have a batty now. The woman less in a bathboaton and the alian doctates guil a hybod baty out from between her logs. As was all hyperes is concerned the goet alto ambiate the bonding process, providing the bath with human touch

Topping ken to tell on story about a Southern gentermen who recently centre to hai door. He tooled very nervous, and I asked him it held onen about my book. No. he said Held seen partol a tim about being and Betty Hill, and sourcelps that. he'd taken his story to the Center for LPD Stakes. They referend this to me'.

The main about the energy has a second secon

Some of the deals might have been picked up have Maplemia baoks. But Hopkins asys: The man work into incodetic deals about the presentation of the baby dealging up technical decoupters but had belowship withink? Laked the dealed higher deals are by another abouted in the dealer of the another abouted in the dealer of the another abouted in the dealer of the another abouted into dealer.

The simplex of the abculator experiter have second year outled to just by hepsine but by Terrale Unworks probe and Ammon Have Buty Daved Jacobs at an Ammon Have Buty Daved Jacobs at a second the second hepsile and the standard at the subtress of the Veterant home in Philadelphia's elegan. Chartan divide day The market her second check day. The market he cage is ago distant-I-m standard be rearming the distant grayches he date has part of distant grayches he date has part of distant grayches.

Jacobs, obviously does not agree. Padding up two lights of stans, he reaches the top floor, which houses his library of UFO. books his tape recorder with special micapphone and his perity flowered couch. Their where I do my regrissions he says, and takes his customery see!

A allocit publicyman with subdy fingers remetalizely gives hair and electric-blue eyes. Jacobs septens the her been nev wheld with IPC nonsearch most of his adult Mill. Thebly? The explans, thy goal was to some of the UPC phenomenon. But twee some of the UPC phenomenon. But twee headway as ta tex understancing the paoses of fail.

Indeed throughouths years of alwayse UPO legats. Jacobs could have in my comprehend the phenomenon or under third why people were assert givings in the sky. "Why don't they and on the What have have? Why don't they used? Why have have? Why don't they used? Why have here recovered its people." I have networe skin to answer any questors that stated with the word who?

Vie explained myself two hundred twentylive times in public, and i've had the expenence of being laughed at in front of sight million viewers on the Phil Donahue show?

Tetri in 1983 himmetDudithoptionsand became tamiten with his waik. Though despectal Jacobs reasoned that Hicpoins were on to something, the first buildings of the tetraon—the task of synthese—could begin. "Thopton was right, the explores. "Into the world have loand the thelecture besiththoogh we had been watering for and his work world/surphus into a new was in the back world/surphus into a new was in the back of UPOs.

Alcobe launched his own exessipation of the abbactesis a couple of years ago whon a Philodolphia makee contracted Hopkins about an expensive. Urable to walk assimately with the woman. Hopkins referred her to Jacobs " Jacobe Trypics, and "Jacobs repairs, until Tell was proliment ensure to do to made".

Highere's referred moreover was just a start. Thanks to naveragene articles and radio shows often local about the subscituse found another and her respects lock off in the pair two years accels has worked nitre wedy will 13 abductees. Functioning much lies apport other pair to give to see each individual is colon as once a week.

'Budd works on the macro level. Hele intervalwed dozens and dozens of peoplo Jacobs explains. "I work more constantly with each individual, getting them to go over their stones acam and acam."

As a result, above has come up with which is asyst in indirectory of the above. Ion phenomenon, as it audits above they income second. What is appress when they income above they are the provided they and what is the leaf thing they see as they in leaf charant the tellway? How do they get these collections 01° How on the up with a happener above the experience? When happener to them point the point up with the resultware the?

Access size is marker hypotece zero costs have yield just tra of information. And in an upcomig book he jamo, perence and book he jamo. The perence and the period he experience using he has not more the advantage a mithe shap for the period he experience using more and market examveting and spent semigrang Next came head by presentations of Mole paces where mode perentiations of Mole paces where percentiants of Mole paces where appresentations of Mole paces where appresentations of Mole paces where go

Needers to say Jacobs Hojkvis and he adductes that either dimonstration allfield adductes that either that the tal datable Newheat was that the hotter than a famencian Drivestay in Washington DC. where he works a most convention URD and getts gathwate the paid startmens to come memorate the fortest anniversary of Kontesth Annoted supplem of a URD 11 west at the and of a lating lawatering day when the panel on abductan converted.

Strato in here of the convelid leadure here were some of hierarcoals meta cabboard abdiateses. Whiley Structure author of Notwhere, and Charlos Holsson, whose gropping like of abdiaction here been publicated in decade before. Drived alcoher modession of the event three unit the lass qualitation. What was it like: "he netword "the like isboot the eventment on cubind".

Benchmann han here. T performant here to the transmission of the metal and the second transmission of the second transmission of the transmission of the second transmission of the transmission of the second transmission of the transmission of the second transmissi polycipal feel adversariant of to mit by the BBC "To you match to answer the gutetors furthfly? Reby "to" Have your wordd the watgets to common game" Na. Then Straber perchad forward While in the processo of these waters, have you installity kell than facult you? "that" Another acadity yeing "to Commance and house sociality of you exercise and "that" house you was taken any had at haloncorpore, drug" ho? Are the set

"would like," Streber sold amid a round of applicate, to give this copy of this fast to Mr. Klass."

Rises look the report, and when the meeting anticle, as bolion monitorit. It more Structure in the hall. Whiley as the relifeour the easy it have more called your a law. Structure of the structure called your a law. Structure that the statement who is layers that Structure that the statement may have amergical as the castal of uniforhandle coting on the part of the drowth main aucdotape livel insue a public applogs of core?

Kasa mesar nooseval a tiple of thirtysocial and the incident faded Bull he briterness detabled a Klass by many UPD reassechase has a metainod. The rosson is ober Klass is a findess opported of the socialest adduction philenamenon as an auptanation for UPDs. His contention? Highins 5 the Typhical Mays of UPCs, he says, and he is creating an oben opdems' on his own.

Releaning to the work of University of Parnsylvania psychiatist Martin T. One nosis, Klass explains that the technique can be used to implant associonsmones that. polygraph, appear real "Let's say Klass explains, 'that I want you to recall what had dinner watched some TV, read, and went to bed. Now i put you in altrance and Linek, Dickyou here a knot more? Because fionship you will respond to my leading question with a ves, even if you heard no poise of all When Lask you how you m sponded to the mass. you will ask I want to the window and looked out. If I tell you state you will now accept this memory apask you what you saw you are lisely to do

Beyond this, Kaisa aada, Hopkini vo laan many of Dinas Carloan Anio. Hypnolatis musif net have any preconceived actes stoot the subject under datasasian, thay musif have na contact with the subject parts of the session and heym musi wetetispe the proceedings to that not only onsi communicational allo fiscal expression can be servered. I kolphan valides too can be servered. I kolphan valides too I would give more credence to a gypsy lea leaf reader than I would to his hypnosis."

Tablets our fait. Newwer, that tablet Highers our fait. Newwer, that tablet We have had socken cases where the entre absocken slory surfaced without hypnosal, he says. Yest in Newty-three in stances people who thought they were absolutes unserver hypotes only to find mundance people who thought they were

But ideas has other compaining as well formatizance to assist the similar tee Hoolards india terminare capto to the free these has been assisted to the second second second based on the second second second second second india terminary. The hybrid basistes in the second second second second second second tee and second second second second second terminary terminary and to be the second terminary second terminary second terminary second terminary second sec

 If we do not stop imposing our own interpretations on the expension, we may find ourselves in the grip of the most powerful religion the world has ever known?

and to an alian, I probably would be But I doubt a Hollywood producer would see it that way?

Firely Kloss says the problypical elem is part what you might reprint. Waad you applicat these creatures to be equit heat will with long. Towng har or short and bails short and bail headed. That is the traditional bails are also and the short bails the more interested if everyptic described.

There are obtain online as well UCLA appring/harmonic optimization and appring/harmonic payling/harmonic optimization accounts can be applianted by hallowed material to states, derivation and harmonic method to states, derivation and harmonic method to states, derivation and harmonic method to respond to them as if harmonic harmonic to respond to them as if harmonic harmonic to respond to them as if harmonic harmonic adds, because they arend hom a commen subjective state of consecutions in which and states patients.

Aver Lawson an English professor and UFOlogiat all California State University at Long Beach, balleves that UFO witherses weave their abduction stores from houriing but submerged memories of beth Ao. far as Lawson is concerned. "Hopkinsabductees recalled not alen abductors but intuisis, medical exeminations, forcases and perions delivery-room indit".

And according to psychiather linewing hubbin public allives charman of the possible washingther charman of the possible washingther for the adductors interantion myscale is psychiatogool spdensity informing those who are not automation on the washingther and the density of the start of the adductor binsight to term washingther and the rought have washingther and rought and the start of the start of the resolet. The physical binsight and the start of the start of the resolet. The physical binsight and the start of the start of the resolet. The physical binsight and the start of the start of the start of the rought binsight at it.

The legislation percenses, holes, and the second second second second second physiological optimic iron is mate a physiological optimic iron is mate inphysiological optimic iron is mate instantic optimic iron iron iron iron iron wate optimic iron iron iron iron iron wate optimic iron iron iron iron optimic beleve a taurnatic event has courred, they mght dowler the same positionmatic trace doubter seen in the outline and vehicles with

But parhaps the strongest anticism come transite domain of UFOlogy itelf Mar speaking to colleagues and stilling tracego the abclactor panel in Washington, DC Jenny Randles is Britten UFOLget, fith "American minival" was editered

Tardias operation or during the formed the microscoperation appropriate disclosures on scoperation approximation of the disclosure on the scoperation of the disclosure of the scoperation of the disclosure the scoperation of the disclosure disclosure disclosure disclosure the disclosure discl

Hopkins says those in Rancletts study may meally be "claimants," not true abductices. But Randles insists the first source at the land termination of the land one import tatisf to influence the next. We have found that if a story appears in a reverpeere storatone abcutterio case. In subsequent with ness under hyponess, will produce details their ans very earch the patter?

As for the abduction seports in America. Pandles says it's just a facturating room degical phenomenon. In their 244, Kis possible that the essenchers are manyour lating people into accepting their version of the phanomenon. Thata's no doubt that there is an adduction phenomenon, and there sitio no doubt that to be no stardiard explanation assents to fit. But that's a long way from concluding that the phemomenon is eatablemetric in organ

Taketa Pandes see the adduction protections of a service that to call provide the provide that and provide the provide that the service in adduction will be lead. The provide that the provide the

Take Kathésen a timmaker whose warkhas met with significant critical success Kathésens strange story starts in Tarkey where she was making a documentary about the Orent Express Kathésen shot the Hopinsis, who has worked exemuting with Adhieston to achieve board Wales. New Adhieston to achieve how and Wales loan's tabys or meety invention, annual the abbuston tabil. The abbustom experineets Matheen proposits are parky samdard, and what we pit. I hopins says: But developed and the something were set to achieve the something were then abbustomed a transfer and achieve the something were abbustomed and a transfer and achieve the something were abbustomed and a transfer and the something were abbustomed and a transfer and the something and abbustomed and and abbustomed and and achieve the something and abbustomed and and achieve the something and abbustomed and abbustomed abbu

University of Wyoming psychologist Leg



Spiniski who has been studying actuation and contactee claims since the Solies says Authorss entre stay may be real. Twi head many typic of alert detortbod—some people claim them my bo at many as forty Some see tail and beautul some are small and pays. Spenio tays There are many poups and each haa a different bo!

Non Borthle sino skeptic A poneer of the New Aps and an and proporent of charrafting the believes we can tak to offowordly spiris and hat the space brothowordly spiris and hat the space brothowordly spiris and that the charneles as equaly real.

But in fact excer the weters get muchy how can one say that a certain component of a witness story is bigtimete while another is no? Spassing to Kather ortanly gives one the impression she has suffered at least as much as adductees with sightly different charm.

There are other postients, too if the administration advector of anough to inverse ententiable space and reach planet. Earth why don't have analy strends planet. Earth up homes ground means in anount of a during a person every time they want a up homes ground means in anount why want to apply the time anount why and the progress makes and by nucleus add theorem they want?

Trady even three we believe to be the the information of the second or the three the the transmission of the second or the three the three second or the second or the three the three second or the second or the three the three second or the second or the three second or the second or the second or the three second or the second or the second or the three second or the second or the second or the three second or construct or performance or the second or the second

Many experts their Structor has in the main in the head Socologit Marcolo Tuzzo of Eakam Michigan Litwensly asys that we as a socotry have been so lotally in doctrineled into the societor of behavior ism we have logitation au uncorrespond mental ke. "When ideas like channeling beat lives or abliculators came along he says," some people grapp onto hear prolation graphy magnitives sulf. They seem uneweak that the mannal and the uppelo

### TransAmazon Rallye

Neur. Orlinami-Carratas-Bio. de Janeira Auril. 19-May. 05, 1988 Jona sa for the "Moveme of a Lifetune" on the South American Continent as Tanahaman Adventuret, exploiting the conto implies of the Amazon Baoin — university the ancest Andre meastrains ...tronsing the densets of Prena ad Chine...techenique on the association the Adventure of your 8/230 mile odystey. The TransAmazon Rully: 1988 is opon to all individuals and is the only FLS Associations Rully: 1988 is opon to all individuals and is the only FLS Association Market Datas

Western Hernisphere. Amateur participants from more than 20 countries have already registered to compete, with motorcyclos, automobiles, and tracks, though the wildemess of Venezuela, Beauli, Bedvin, Preu, Chile, Arguntus, and Panguay. This is the ultimate high reoffle, world-class adventure.

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### Brain Tune-up?

Turing up your branvirrend is fast becoming a reality.

More has been discovered about the brain and accelerated learning during the past 3 years that in the entre history of brain/ mode avance, neutrocherce Noted recreacement, abort a rabat, John-Dwed, Ph.D., has decovered 'sound partierne' that when sont to prodesignated areas of the bran' mind allows for greater concentration, createsty, pask performance, was memory and even the alimrating of old self-sabotage patients.

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Set Excession Set Tearry Receipt Proc. Calcolar 4 (Starty Proc. Calcolar 4 (Starty 3):14 (Starty 2):14 (Starty 2):

for them to say. Sure, it is Ramthal it's not so easy for them to see that there's simply more to them...

Dennis Silvings a philosophra and Jugers infraiter who hads in X-chaises Indiact in Minispone a constraint of the service of the service of the service and the service of the service are a proceeding relation and the introvert in historic target more with data. But don't way whole may be a service to the service the particular is anyling to don't way wederness. We service to the service the service of the service the service of the service the service of the service service and the service target and the service the service of the service service the service of the service the serv

As far as Billings is concerned in fast, Ameropas have lost bash net only with their unanecous built in the basic primal experience—religion (roll 1) proceeding that it reasons (roll 1) proceeding about a proceeding (Stillings says, that the about proceeding (Stillings says, that the about proceedings) and pairs with the story mean charmen (and pairs) with the story mean charmen (and pairs) with the story on the set of units of the reserve a mission charsed out in that tech

The educidity spensors is to response billings tassives, that is bornes some of is most operation targets from resignary were basised. This is the state of the state were born with extraordinary invalves or caparitarians with. The ablactions billings away, "been hore what heptons and excoupts nerves, memorish what hey make associated with reliquous devotine for anyot than to the state of the reliant spectra of the hyperball of the reliant spectra of the hyperball of the hyperball base and hore calls the most of here anyot hore.

In this strange scenario four people are expected bactory/item show up. We indithis in the Ballor' Brillings says we find it in Plato and we find it in Platoes when Kathermeint three strange young mini ithcluding a mysterous blood'

Where do these mages come from? Acconting to the late Carl Jung They cost as lateral structures in the thream "Jung" SMImage replanes, "between That mages and the images is appared were helpingal actives Nonetheless the engineer helpingal actives Nonetheless the engineer helpingal actives we give it form. If this shall apopered as anodes today we would launch at it. But when it comes packaged in the form of E.T., we reimore likely to believe

met at the UED convention in Washington

emerge Lying down in his cavelike den.

prit with me Mertally tels cone . I feel sergation Thesas a king arm under my there's a green liquid that goes down

York when Leigh still upset by her expenthe Chelsea sector of New York. Original art mild April Kingsley mede pasta pricated men and women discussing pol-

Wardiner though clustered around in a circle those in the 25-member support One young woman who came forward happened! she said, her les ouverno her attacks I was close to sucide I couldn't said proudly 'My life is back on track. I funk lunderstand DO



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venting area and virbaally no doportan. So get Isihibas 30" IST Mednum You won't rait see TOSHIBA

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## **PSYCHOTALES**

### "Do you tokey me?"

"I thought he was periodly pleasant, Gwen said frostly and lumod her back to ramove her silvery, srug perty dress. As she wriggled it down over her hips she had a lot to say about tax shelters.

Thet his clid | Pyomation accilled faetbly advenoing nucle toward him and the mental bed. It's awhalv late ' he warred

Oh nome on," she said the lights out

boomed in the privility of their bedroom

Nos indeeds, she aqueed imbilling lowing the man's slightly glassy and slick her own usually petite and sounded feeshewanton encouraged Andialime old chap why is it your child support check is

soo his bride arrive at what he concerned to be proper womaniness- a plastic alor: susceptible responsiveness tudged this and so, Gwen would stand in her under-

lighted to see her pretty leasures distort

be assumed yone litere used to be Greece, but now with all those dreadful

"Oh yes yes "he said, his lace smarth

in bedishe ponted out, "it's awk/livitate "

Minimum That would be reawy rece. As OMV

### CATEGORY A

3. I became encrossed in the story and

4. I was so caucht up in the slory that it

### GATEGORY B

ways concess and reacturely believed with

of the story I empryed the dialogue and

What he disliked about his first wife she would ask to have ber back rubbed and then under his laboring hands, maht after night, fall asleep ?

even socke some of it sloud to better ap

3 I found mysell trying to imagine the husband and wile in their bedroom and

4. I found that I was practically beams risinons for Pygmalion, and pictured each couple in bed or visualized Gwen in her underwarer or her builbend subbing her

the need of some man to completely con-

3.1 found movelf feeling like the two

4 At feat I was switchhetic to the women

tiveal story that morely pointed out the

band for his domination and it the wrves-

3. I feit more pity than anger for the couples. They were striving for closeness but

people to love each other neturally without DIBINO GAMES

1 Although this story seems furiny and rome on the surface it is made a taken

2 I tait that the man's two erves eero order to abain th

tween women who want to merge than

two wwes and the husbend-were strug

### BLIND GIRLS

come to watch them drunk on first wine. A issis of black love and lps. Jesse watched was in a shack down the tell from hor house beside a field of tail grass where black stones about various adults while every most and always louching them. It got darker, and the stores out scaner Finally and her boyfriend parked on a courtily road on a right like this with the wind blowing and then rain, the whole sky extremo po it sounds like something scratching at the car For God's sale gruntles boyherd. the hook of a caszed amputee caught m bleeding cosboy with wheet has, and she was unfocused. Moaning in the dark and Nervous laughter Sally looked out the winand screeting's causing in 4. No it's and her voice went up at the end it's just

and filled her arms. On her knees she hubbed Jesses less and mumbled into her thighs it's all right. I'l take you up to the of the held subursting

1 Lioundimy attention wandering much of the time and couldn't really get involved

2 My attention wandered from time to

3. I became encrossed in the story and only occasionally allowed my thoughts to dati to something else.

4 I was so caught up in the story that it segmed for a time that lasts actually a per-

### CATEGORY B

1 This sloty uses words an effectively their I could hear the fooughts of a rutal

2. I was struck by the yead language of

scenes of the ciris, the shack, the boys in

tell the study har lotion and was disturbed CATEGORY C

1 Hell detached and unresponsive and

somewhat drawn to the story by the free

3 Hound mysell thirking occasionally of other teersoore, laken about sex and

4 A whole licod of tennane memories maps about those days for a while alter fin-CATEGORY D

arrayed that I had to read it

2 Twis incred by the cruel story Jener nothing better to do with themselves

3 While I was disturbed by Jesse's story.

4 The story evoked for me some of the that kids expensive in their early teens CATEGORY E

1 This story pave me a sense of termagets growing up together and feeling close as they work through early feelings

orishad with each other, bull also sensed abme of liter caulty

3 Twis impleased by Jessit's strength

sense of control and independence. She was learning to grow up in a difficult world. WHERE YOU STAND

Before properding, Jally your errors for answer 2 under Calegory A for Thank You Milm," and answer 4 under Category A for adding your marked answers for "Pyotnaton and Blind Gris to this you will have your total score for Category A. Do the same for categories B C D and E CATEGORY & Absorption

Research by psychologists such as Acke shown that some people can become so most know the oth sadin their summa recipite the storn or movie theater they are sating

6Psychologists have found that people who are creative and easily hypnotized report that early in life they had become absorbed in a hook or a fantasy relating to a book?

in and the others in the audience. These individuals would undoubtedly score high

are easily hypnolized report that early in sorbers have also been shown to have more than the usual number of pleasant been shown to exist between high absorption and receive devolveams.

lowerd the high-end of the absorption scale probably immersing yoursell easily in a book or story. You might possibly be a good candidate for hypnosis. Like the onis in Jayne Anne Philipe's slory you find yourself wrapped up in a scary story only to be creeped out "when you brish it Or like about such a kle. Most high absorbers live out their daydreams as Bovary does

likely to be one of these persons. Perhaps if was suit these four stores that taked to attact you, or perhaps you feel reluctant. in general to "give yourself up" to the seduction of an aeethetic expension Al you worry about giving up some autonomy

If you'd like to monove your ability for absorption read the stones again more heating them. Taste the cake in the Lang-

Most people are likely to spore between mix of absorption and detachment CATEGORY B Verbalzer vs. Imager

in forms that we can retrieve later as memposs. Most proces tabel their expensions ballcame "alypical business dw" or an remains percent but hav also store in record-the sounds of birds in a field, say, or the amelia touches, and tastes associcall requires some combination of the cliclocical petterns of a story while others will volved in "sereing" pictures, hearing sounds, smelling scients or oclors, practcally teating locals or loaching objects

seven, you are likely to be someone who logical patterns of what you have read. You may have problems taking in stones that ning, middle, and end

penerice the smells touches and tastes of what they read about without notiong spells They I see the word birtwho o Bind Girls and the whole sky sobbing potato usce or smell as Cheever's charor yes of the malerial but may beel at a loss but may often miss the richness of detail or emotional quality of the material

The majority of nactors, though will once again find the matcle territory acoming between eight and 11. focularly in part on the works while they react to some extent to the mappe

### CATEGORY C. Identification

Write Stocphon refrees the degree to which you became and/it to phin responses that have became and/it to phin response to the stochastic strategies and the stochastic strategies and the stochastic strategies pecality prome to see similarities between events or characteristic the synal attactual that and marchina the synal strategies and the synal strategies at the synapse synapse strategies at the synapse the subcharam indice-classic domatic marchina provides performance and the synapse strategies attaction at the strategies attaction at the synapse strategies attaction at the synapse strategies attaction at the synapse strategies attaction at the strategies attaction at the synapse strategies attaction at the synapse strategies attaction at the synapse strategies attaction attaction attaction attaction at the synapse strategies attaction at the synapse strategies attaction attact

If you accord between the read server, and you accord between the read server between a descharters if the read server and the decord of the you are set of the void offer a server and the server and the read server and the server a

I you sched britven 13 and 16 you an lawly one service should be a service and any one service should be a service of the large of characteristic should be a service and service should be a service of the service means the sectors of characterist in Malon 11 m stry make you wince but on occurs and by a reverse the service should be granded by a reverse the sectors and sectors and the sectors and because a sector sector and the sectors and sectors and sector sector and sectors and sectors and sector sector and sectors and sectors and sectors and sectors and sectors and sectors and a sector sector sector sectors as a sector sector sector sector sectors as a sector of sectors and sectors and a sector sector sector sector sectors as a sector sector sector sector sectors as a sector sector sector sector sector sectors as a sector sector sector sector sector sectors as a sector sector sector sector sector sector sectors and sector sector sector sector sectors as a sector sector sector sector sector sector sectors and sector sector sector sector sector sectors as a sector sector sector sector sector sectors and a sector sector sector sector sector sector sectors and a sector sector sector sector sector sector sectors and a sector sector sector sector sector sector sectors and a sector sector sector sector sector sector sector sectors and a sector s

Of course you might identify with people in some of the stories and hol in others, thus scoring bitween regit and 12 CATEGOINY D. Hostility vs. Amisbility

To a certain extent, we all need to be careful or suspicious of new situations or ISC OWN Io be able to show arroyance and express anger 14 we also multiple and benazive show compassion and henciliness. to see the potential for low, as well as danger, in maladeratigs. The chinamiscin reflects the degree to which, even in reacting some of us may react more searchy with annoyance or susprision others, with a tenderhearted compression others with a tenderhearted compression or weight

If you acceled between four and eight, you may be prone to suppicion ango i or annoyano. Of course, ther may be a mlection of classes for the writing style or the story. Or it may reflect the quality of a given story or the seaction the author sees to accuse in readers.

As suggested above, most people pobably fail in the middle with scores beteen mire and 12. If you rated yourself between 13 and 18, you are likely to approach stately on the lookout for opportantes to experience low, wanth and pty Where others may be very or clulocus you may make a halos folloceing for

Some readers will be more sensitive to the vocabulary and logical patterns of a story, while others will be especially attuned to the sounds, smells, and visual magory.

The good in others their positive pointrial indexidale whore score god them if one astains on this other on this hostim-aminble dramation may be at rais, to on the one hand, or being overy supprises, end, while, possibly antigraming others, and on the other hand, of being overly hutting and compessionals, of laming the other check and gotting stapped too others. CATEGORY E Commission we Automany

Artish Chekhov's story "The Darling" is about a woman who takes on the values and alfabete of her lovers to in alterning degree Whenshe is with a pompous goverment official, sine completely accepted his way of being in the world. As short as she becomes involved with another mashe changes, accepting his alfabets—no mattar how different—as her own.

At the opposite extreme are individuals who, iso harmits in inicialated woods, prifer to large that isses alone. They notifier deare not need to define themselves in retation to other people. David Relation a revehologist at the Lin-

David Balan: a psychologist at the University of Toronto has proposed that most human beings spend ther lives strugging to recorcile these two opposte needs. which is easily continue to and successly which is easily and the birth this is any other interfar members. As we grow us we perform that the second strategy of a test easily and the second strategy of a test easily and the second strategy of a test is device protected while the second strategy of a test being the second strategy of a test to device protected while the second strategy of the device protected while the second strategy of a test of a special and success the second strategy a test of a special and success the second strategy a test of a special and success the second strategy a test of a special and success the second strategy a test of a special and success the second strategy a test of a special and success the second strategy a test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and success the second strategy as test of a special and strategy as test of te

If you scored between hur and right on this scale, you may be a person who leads an especially storing pull swared affination and merging yourself with ohers that may wait instracy or contrusion and are willing, persparse even enger, to load you per wais accessed and in the interest of beings ing. Pygmaterist is the win Jubic you per work accessed and a storing merger on this scale, also considerity you in the fusband His second whe is, bo ... for a time but you have a segarate hereaf from him.

If you scored between 13 and 16, you are probably very independent, intent on self-development and guarding your sense of privatcy over at the nek of some isolation or loneliness. Upd kee Prygmetion would find instead base.

With a cools of mere to 4, you drive to behave the resonance of all which and an ubrowny. On the one hand, you wair doution and the heir possibility to some the resonance of the heir possibility of the resonance of the some the possibility of desired that werners, respect with those desired that werners, respect with those have at abcorney though other yearing to be able to be the second year and some of that any waiting and the mere of the second year and some of the second year and here to be the second year of desired the second year of abcorners or unsparsing to the second second year of abcorners or unsparsing to the second the second year of possibility of the second year of the second y



"Coart's Begai' says Carly Butting

Nolari says Mr. Rice He takes out a hypodermat statistic media into the corrier of his eye sterns the plunger "Oh! Like nationa else Mis Nolari

Tildoarwthnolokeepmy.pb Mr Rice.

I am so glad to hear that Mr. Noise mos over his left shoulder. A member of eats it steel molars crunching the glass. and metal into pulp." I will ove you another chance Ms Notan" says Mr Ron Tonit make me segret it up?

The personnel committee wanishes

Shift wells Doctor Statuter incluing Car ly 8 cube "Louey fear is all you gol for me?

Hate this fear she says of kest "Hate

'Guit and lear, guit and lear " says Doctor Bonner, taurence

Boolhoolhool Doctor Spirither laughs with exacting cavity "Poor Life Carly

Carly snaps nto lufy, slaps the probent souffee away darks and daelws harm

"Good good good" ones Doctor Stan ner sall auching She arms the control back, winded "There, you see? You're not hometrung by guilt environe. You're not

But I'm still trapped in this loavy life of mine What good does it do? I'm still

Ah we shall see " says the prober "We haven't found a blackost yet

Her presence in court gleerns like mother-

a slock green stream of data. Plaintiff taked



years: Legality of acquisition is sustained a trail seconds sinct contamity of data with

The two actually appeal for the plantifi

Therefore," continues Carly, "my client

big board the registrar of deeds choerfully

"Further" says Carly. "Invibient sues for

Objection? screams the weasely solo

"Oversided" says the judge. His geganto runs lick over to the whiring chronoprach Carly has presented proved and in live seconds

The uidges towering lace smikes at Carly look forward to your official recent/ication Proceed Ma Nolan

Grounds are volutions and beseless

Diviso/ Deta conforms to statuto

dollars

"So held, award cranted Dismosed" The saloe rock approvincy at Carly Her presence in court glows.

Big lead hook of a gamishment plucks the bat of Plass Martro's money From stats soft poop like a fart in a any black and white newsline, the big board reports that Pose Martino, app seventy-one, locked ktohen of her southeide tenement studio pws of the public monous

The risk net of a collecton agent logs

lection agent's net drogs him away to ser-

Carly closel't know what he means by scious in her fifthy little cubicle at Ava 5

Way to go Noten she save wilking a bloodshot, black remmed eve. "Nice touch, teach layprople to fuck with business

in the hollway Mr Gapo Rice Ti rolls by octaine gals. Tim so glad you are meeting our expectations. Ms Nolan 1 Mr Rice whacks him on the ear. The got allother case sat like Martino's Consider this soft of thing your new specialty Every lawyer needs a good specially eh Ms Nolan?

Carey rogis: takes the memor from Hox. Loss: Dack there pricipients the checkoming dupor that always follows cramming Wall his taught the other ways to handle cramming, ways to handle the condictions: Weller has taught the shift has of takes of the analynew that has her puttier Shep address with the hasher puttier of the address of the sheet of the address of the them hocked, deals: Anything to some more coam

Hands shake all the time now Filteen pounds gone, she looks like an anomotion, Let eye heldens, some lend of saviling aches in her left tangle stretching out hive brused skin. Afraid to steep, infraid to dream the chang into this, coles out of onan toccas hersel down into doep black rothing.

Durineal probes have arbien correreg lose Carly's caller of Societ's Spinner torses wito uptime; Society Taylor Carl (1995) and the society of the society of the six control and probe bit the standcalor watcus at head probe bit the standaction watcus at head probe that the standaction watcus at head probe bits the standed carrent bit accessed Fursas, CHW and eccesses the monther probes. Sin distemport of the standard bits society researches permeter probes. Sin dispert Several bactom, funnan clubis half researches the standard bits society. Indexesses of infation when kit permiiel delects are supported in who has proved tryating similarly paratifications when such sharing of problem to the technique are wrich Dector Marboo asserts in the guardian of contect though and program thesis Marboo explose the case of Shaven H. a young, inclusted popuritymer loody and good accurate, suffered from halopatorie in text.

Bower Heart the tables at the partmeter they be revealed and the partmeter of the problem of the tables of the part and the part tables the partmeter of the part tables the part and the part of the partmeter of the part of the output of the part of the part of the part of the output of the part of the output of the part of the p

Enroged, determined to prose malpractee charges against the med conter and Doctor Symmet roth. Carly calls the protars office, intending to refuse a third appointment. But the prober samawing me chinel take her who a third probe



You don't want no cloud hanger over your court recert, do yo, Mess Noien?" says, the answering machine. "Come on come on come on Link is with the doc one more time, and i costantine shell succir val."

Carly considers this She indeed has a hearing before the judge in two days has promised to present him with final med overtie seventhication.

But we haven I found a blackout. Docor Spinner keeps relisiono

Relax Shell recert sa Twookhil kit ya'

So Carly sals the appointment. Just one last probe. Get in link, get out quick.

You really will? Just like that?" Carly stake back and forth across the prober's dust-fully floor

'Oh, sure ' Humming this weak's popilitit off tune. Doctor Spinner toldtes with the fetalink console.

"can't belove it. I can't believe it. "Carly studies with funy. "Then what has been the fucking point?"

<sup>1</sup> Ned center maintrame says three probes, then recent, then I get another pote client. You look We hall, Carly Nolen Not comming, are you? No, you wouldn't left mell you were?

"The maniforme said recertification / Tim cared in three probles. You fawinit clone a damn tung for me. Sonner

Taken harde a thing? Not a targ? tang to differ Carly Mean 'Save bean spring loose of guilt and faat, can't claim your freedom with beganger like hit: When you were gut the BO, of a charmer being shirt out of your partnesses, that why might be the gut partness that why infigure to the gut partness that why if you show why it legal hits of the start of beganness.

Bitter cold shock. Wolle never old say why. Carly shrugs it off. Bitch is trying to hassle her, as usual

I don't want to argue with you, Spinnet says Carly "Get on with it."

They jack into lin

Telespace is clear, still focused, luminous Maybe care reflect mights Cuty's clear pure anger I in cline case very noe very calming. Carly lightens up at once in that, on, yet, just what Doctor Spinner wants, for her to lighten guard down. Docter Spinners presence in link is in crep. perfect electry cone.

Presse traverse your left perimeter Carly Noten, says the prober Har vace seems to contain an awaithuck note

Whead is beautiful golden glow Carly's preamore in link sides gatacifully eligitry toward i Honhand brushes a lock of han from her cheek. In link, she leak tha too' touch of har own sion on her table But the bouch doesn't panic her doesn't worty her a bit

'Xc last' ones Doctor Spinner Thank God! At last A blackouf

"Youre otsary" says Carly Terror galops through her, repaing away her proportal



The new, suchasson entritental safety bent proveets vote makening understored konger than you had planned. We want that interpret glann - it is versically social to the operation of the safety of the safety of the safety of the generation on the safety of the literation would will be in \$200 or more all balls allowed in the exclusion social works in \$200 or more and balls allowed in the exclusion social works in \$200 or more and balls allowed in the exclusion social works in \$200 or more all balls allowed in the exclusion social works in \$200 or more all balls and balls allowed in the exclusion social works where it has been all balls allowed in the exclusion social of the works of a allowed and the exclusion social of the works of the site works of the exclusion of the exclusion social of the works of the site works of the exclusion of the exclusion social of the works of the site works of the exclusion of the exclusion of the or works of the works of the exclusion of the exclusion of the order works of the site works of the exclusion of the exclusion of the order works of the site works of the exclusion of the exclusion of the order works of the site works of the exclusion of the exclusion of the order works of the site works of the exclusion of the exclusion of the order works of the site works of the order works of the order works of the order works of the order of the order works of the order works of the order works of the order of the order works of the order works of the order works of the order of the order works of the order of the order works of the order of t

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### ness. 'I see a beam not a blackout."

Yes A blockouth within write you saw This global gives bents and the bandcook and gipyrrite to Carly singer A first invitable tom a waterink or kinnel and howers. Stift chaspant writes monocopus devision compound revised apparatials the margin band and the object of the marginesis of the space of the state of the marginesis of the space of the state of the state of the space is southing down, writes the the space is southing down, writes the the states of the state of the states of the space of the states of the states of the states and the space of the states of the states of the space of the states of

Carry screams

So this is the secret place made your blackouter exclams Doctor Spinner. The social Fason and

"Horsble, homble, oh, God oh help me?"

"Why? What are you alread of?"

"Uply Repulsive Monitorus Alen "On no not uply Doctor Spinner glides acound the bright warn. The spider blies the there legical and cheves. "It's nature it's beautiful."

"Writer: Viceous Mandemus " Carly chaques alter the sprinning cone Just like the judge and Ava & Role and Welle and you. All of you, preying on me trapping me, forcing me into bonclage, sucking me div.

<sup>13</sup> "Oth years of certainty years been as when the vector the people around year the net yearse learned yearsail competentation of the people and the people of the societ has signed som the depths of the disk uncereposes through the Million and the weat and the society of the the society learned and the society of the society of the interest to extend the society with the society of the

"I won't hear this, Spinner" Carly soutresito log out of link

But well (any tained as simple. The cone dwar at her pooling her, stopping her away from holgoft lay. There a a story, an old story no the eminethors any meet there are a goodbes on minore lay and by incompatible instance So gaingood Athens transformed the besultuit Arechne into a goldw?

Out of the glowing garden creeps the garden spater. It souther access the source cleanter from The spater valuation is harry cleared apendie canches a silver line, seeps across elespece dopt down onto Can's cube. Can's sheeps down onto sherik away, shale to't, but the can't, silve teppoed.

"But Carly, the story is appropriate Decise Sparrer lowing/ less at the updef greetly harrying is across Carly's cube satisfies and sumbles of the edge, esing a back-order. Als a alternative a polisted upder, no bottle than propagaroli worthpped the warght goobles, toeld the locative sociel tradie of Cetter

The reader quadrupies in see Now in-



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Whence come the whetpenns of whet-the sulfavore which "Who has not experienced that certain impelting impression the subfield with Baham into exaccusates if I converyish at unternable conversion of truth that neither reason nor persussion can set as add. The subtime is a source of unternable, included that has evaluated in the subtomotion. It extremes to goide and advise you—even spanse the dotoes of wall.

There is nothing supernatural or our comprovements instance. Beneath your sorface consciousness scatts another rand. It can be a source of inspiration, of new and anothing ideas. Instations is the fuorationhoad of reconverse alloky. Every person's life can be fuller, richter and anchevenent, if the learns to swaken and direct instanton. Dur't wait for emlighterconter. Call a first

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seean of prawing across Carly's cube it stradoles her gazes down at her with a phoulab, gripe-mouthed face.

Who would worship that?" says Carly gasping "flow could they? May "

To the Cristian weakers, the space was based of Sould. She who rebenfoods do those, the barrier the ident meals of deceptions. But She was also Weaver of Feld. She who uncossingly carticles asys Dadar Spinner. Unreases upon universe over and own: She redeems ther own de struction with their infinite power to cavel and was showned."

Sally wind block across telespace. Carly sees a preport in the study consumption of her integrations, sees a trives of golden met connecting the vesor and the parpent. The propert dilates thost tops of inhibition unaversity, tripping away A long tunnel—with dark red, curving Winkind wilds—water copen the full commany.

"Look! says Doctor Spinner Carly look!

No' whispers Carly Her presence in Ink ter body all is wested so without power she feels oddy calls again "I'm afraid."

Don't lear now " says Doctor Spinner "Youve lead the date side of Arachne Now claim the light

Tailespace is a gisty grean mist. Carly's presence in link is her own nude body. She stands on a windiwegt briag, saliountided by a splashing sea. Before her is a growto logit, mode of smooth, head wated shung with worker wire and wool.

Bis coach basel tertities in soom tooses to errorson have have have in and suiaround and texcych, the bloose mather the word globes proceedings generating the amber the way args of the lacromaid cloak model in the lacrom of a warrinnin ligation relation to be larm of a warrinnin ligation tracks with the same fails endeday. The word maps and hubble the carmins a balled of light and disappears based watch ingere patieng disappears and index of light and disappears.

M is devicess.

Carly opens her influend A langh babbie speng from her finges, filling her syste with light Clouds of dust roll. Stars cool her account of task fields painting are The periodical occan roats. Creatives serviher was on the other is stress foreches and here to England America. Chen Mohrean England America. Chen Mohrean England America. Chen Mohrean England America. Chen Mohsel and a stress field and the chest Spacettype blies of toward an uncharted pather.

All is clarkook

Then Carly opens her right hand A livminous sphere pops cut of her paim libeding live rysex with high: Clouds of cutor rol. Stars coaguide the halo of arhers per optiese: planets often. The permit occasi planets: Cleatiuss swim, then the skin of there this closes accurd each digits bore and they once permits are Aktor Fort



Kamut Lator Moon, Xaxon As ocean foor aprile, twellowing cruthed offers Spaceships blact of into the unknown universe All in diskness.

Dotter Spriner's voce calls, "Carly? Carly? Carly? Carly?

Checkerboards of golden tight pierce Carly's kill permitter. The thack black wall of inhibition sharters shards of guit, waps of lear attands of denial flung into nimity

Carly hovers in telespace. Her presence in links is a larmous pairs' see glearns with crystal, the wonder drug that peanwas like legenatic correspondences, permits. Earth deblars to send their prelations servers the griftey to new works. The pade obtails of Walts, her believed is three Doztor Signner's presence in links an indiga zone set with silver descert incomes jurg both

Britton theretowers a cashe of yelds tution of the states. There is tagle has a cash, depertury parks A cross Carly is right pomaking and the parks in the states of the making and the parks in the states of the making and the parks in the states of the partners existing and the parks of the parks partners existing and the parks of the parks the department parks and parks of the partners existing and the parks of the parks partners the parks of the parks of the parks partners the parks of the parks of the parks partners the parks of the parks of the parks partners the parks of the parks of the parks partners the parks of the parks parks of the parks of the parks of the parks parks of the parks of the parks of the parks of the parks parks of the parks of the parks of the parks of the parks parks of the parks of the parks of the parks of the parks parks of the parks of the parks of the parks of the parks parks of the parks parks of the parks o

"Doctor Spinner' says Carly "what is this place?"

"But some call it resisty" says Walter "It is yours-belowed

Antiferrial overhaud to the four correct of the paper or the fastice of time and space. We aspeterweb a bosoff fine spall hung with organization drops of dow Neght rain thes form a hole in its contain Cardy Innove what to do She flow up through telespace, takes the way, takes the wood. Them she adops access the wilk and bogens to weave DD

### CREDITS

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# TECHNOTHERAPY

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By Peter Garrison

Broad complete testments to reported therefore are invariants adapted of device operations to simply and use Computer complete testments and the complete resonance of the second operations and second operation of the second operation operate who subtractions are there of open reported as the second methy and the problems an aground have of the second opertication of the program and problems and second when the subject is than in the computer asia in mit about the opportunity in second the program opportunity in the opportunity of the program and the opportunity in the computer asia in mit about the opportunity of the program opportunity in the opportunity of the opportunity opportunity of the opportunity opportunity opportunity of the opportunity opportunity

Paulates Same of the University of Welcomain these muscaceful in Initiating expression. Which is the most wedgy reported psychological complexit in America. She used a cognitive-thesasy approach: Change your fooghts to change your feetings. Here program asked approach with they thought about and then suggested other things for them to think about. The preference weind

Poper Gould a psychiatrist and researcher at UGLA, has developed a therapy package his calls TLP (Therapatio Learning Regelarity, which uses computers in fandem with a therapet The computer arks questions, assigns the computer arks questions are the computer arks questions the computer arks questions the computer arks questions the computer arks questions the computer the test the test of the test horsevenik, and traits to attochvit "Thinking artics: That trap patients in teachedutur, two behavior: A nationaride health mantienernoe organization, CK2NA Hisattpolan Inc., offass TLP to its members. The program takes five weeks, and such andisides takts teach burth

In the issission the Developmental deals Wrindows, Wat they period charam in anear of hear lows that clearable it than the compare may be writed to the second status of the second second second second status of the second second second second why they haven to know them denty why they haven to know them denty why they haven to know the problem parents in our bottom. Also completing the second at the comparent potents of the second at the comparent, potents the neuronal second.

Thought I had been dealing with my everyday stress, says one women whose doctor tole her has har physical symptoms — lanyngitis facial swelling were stress related. "Once I lacted my lewings of inacloguality, she says " my



Partness you'd rether feil eit to a computer?

symptoms wont away it was incredible how togi likemed. Another women akys hat the program helps the ridentity hor weaknesses. The program helps you tocke on old beliete you don't nied or casis and your potental, whe sets

Goulds TLP has been used by more than 2,000 people and he gave glowing separts of the results "beneficial change" in laft the patients, Werdering change in the petients. We dering change in the percent. The key raise of the computer's says Bould, is to help people go through their conflicts step by step "Bober Durber manpath whet if heath

Repert Learner regressi invalid Habit Montratar Blood Address was one of the test Brangesia lo sua LE PC ALTON bases. THe access of west more statistical test of the test of the test bases and the access of the test packets are not writing to weat the bases are not writing to weat the statistical bases of the test of the packets are not writing to weat the packets are not and the test the packets are not and the test the packets are not and the test packets are not all of the packets and the packets are not and the many of the test packets are not all packets are not all of the packets and the packet packets are not even take writing to be packet and the packets are not and the packets are not all packets are not and the packets are not all packets are not and the packets are not be all packets and the packets are not all packets are not and the packets are not be all packets are not and the packets are not all packets are not and the packets are not all packets are not and the packets are not all packets are

Currow clarms that the technique underlying computer asketted thrancy is simple but powerful. "Patients soon realize no one else can solve ther predierm—not a thistigati nor group membors, he says. Because the protomm is welf-directed, is view appealed."





CONTINUED FROM PICE 54

A proposal for a sun channen is being considered novel ty the Museum of Art at the Unewardy of Alaceta an Taccien for riscentral externar well . "State" Cocks a groundbooster 'says Prete Birmingham disactor of the maxim. "Here well light is united anything im tambiar with 15 ones and the anything im tambiar with 15 ones and a supple arother to take the sun and put it to writh to meter an and

Now the plant is taken a permanent is for a building that will center a sun drawing to the full cycle of the year. Designed as a while conceasis hemaphees with a saw, by eight-loss glass-indiced permight the subject plant over aproxiated on the same disavery and a strapsect Driver development of the object same time passing invasial form as Baadtook aga. One beacher under concestetion at he kery Lings Aray atthe Noticed and head head and a strap atthe Noticed and head head and the same atthe of the same term of the kery Lings Aray atthe Noticed Head head concester on the kery Lings

The meteries for will be used to actvise the parameters and swamp two charged down its remposite preside time galaxies and the second second second second magnetic parameters and the second second magnetic parameters and the second second second second second second second second barry and agrine galaxies at which hereing a charge and agrine galaxies at which are made to agrine galaxies at which are company where in a costell balaxif-care to here continues (balaxies which are made to agrine galaxies at the second match to agrine galaxies at the second match to agrine the second second match to agrine the second second match to agrine the second secon

In the second second share drawing proved as a part enclosure a control phase that will reflect the interscience of run and Taiwh through hor themesoners light space movement and time. Stand Cook extrol phase used the sum scycle to make bein offenders to have could use in the motive with the commissional offen reflect the control to every could use in the motive with the commissional offen reflect to make the second the sum of the motive of the sum of the sum of the hord on a meanments of a and the comto the second second use the second second the sum of the sum of the second the second second use with each other

Lifetion rate in Weshington IC, need Way the Christian Conservation Awards Program will pay tribute to lan violatione catternia in preferenzamia and feen nen prick space who awards in preferenza lifeti approximative to an quality of the Tachs and electrical and space will need to the Mambere of the general public may nome dividual and space groups by Mambere of the general public may nome within a faint catalogue or groups by the dividual catalogue or groups by Math Bachmark Conservation Hermits Nome 2018 Spin Tennomer Catalogue DI





## ACCESSING THE FUTURE

### HOLOWINDOWS ON THE WORLD

Laser-penerated hologram tissue already been used for awayfing teen light swords in Star Woo movies to the rithy Mes 3-0 magine on your tools cardia Now a group of technologies from Carteropies, Messadow setts are planning to use hologosche wordow 5-0 spilad nurflight mo tack method auflight mo tack method auflight mo tack the construction of the parameter by as much telling construtio constructions of the constru-

The west-base explanes Richard Ian Fress of the Advanced Enveronmental Research Group will proberly be coated with a photo papers bit this has been reported to laser legit. The basic creates a "refol patient basic there as "refol patient bits that advant tested part" cles in this firm rice with amountes to a spees of improsequences.

These holographic mirrors with in the Prevent works, received recorning sumphil wherever you warr it. By stacking a series of hese hins—each one with its mirrors access the slightly driver if angle—the ocealing will actually loke the sum set i moves across a window during the sources of the day thus allowing the interest day thus allowing the interest gathing to remain constant.

Plansambler " says lan Press - that the nature of a hologram is to redirect light So were just taking advertage of a natural lighting source

Access Prolotype by the end of 1967 should be commencially available in two to three veges



### FAT SHAVER

Dr John B. Simpson a Reclarod City California aeditalogial, has developed in new surgical procedure isreaumnal abserctiony hild operin chogend extenses by shawing fatty deposits suit of them with a timy internal still hilds deares.

Once a catheter threads the maximum to a manused point in a laring a measure believe is expressed and the sense of the sen

According to Chuck

Benation of Devices for Vascular Intervention the company thet monutectures the List Shawer has new procedure it less Yaumatio ha vessels thes halloon angropiasly an older indimute that pushes plaque asside but doesn't completely attracted to the sent completely attracted to the sent completely

We below atherectomy will induce the likelihood thet a trated artery will name again soon after it has been trialed "he says

So far the treatment has been used only for blocked log artimes but clinical treas on heart patients began this cell summer

Access Chuck Benson Dricker of Marketing and Bales Devices for Vascular Memerican Inc. 585 Perubacid Dave Redwood City 30-6053

## PERSONAL

"The barriers use West Cost distribution Rehad Milensio of Pacific Anatgas Cost distribution Rehad marking the Stark Stark Stark Ballocin, and yas can by it ballocin, and yas can by it sent "Stark Stark S

The dicky part says Miswake is gaiting locaresed to flyin! You can't just go down to your local flying latical and nert one, he says To solve this the company plane to insugarely he or mole latering parties around the country with instruction provided by—who ols/?—former plane of the Soundwark theres

--Bil Lewren Access White Mamphis Arstigs Box 13114 Memphis TN 36113





### TOTAL MOVIES

Executely FOBCG-FOW a how of a how of a content of a con

Currently Robodevoo is trying to raise money for

VZ CMM

Access: ToxyLos Jo London can arrange to see a demonstration by writing Robodiesto 108-A Tomano Avenue London NWS 2907, England in by calling 341-297 4395

### WALKKID

After sair og 33 mellon of tes Werner produksti to gotwinrupe eiskund tes workt. Son ye nor skeing as gots attele comer The company recently company son test atteles and the son test and and the son test atteles of the set of the son test atteles of the set of the son test atteles on Dedge of Werner ye media: in seteletise recorder webse test come and a webse test atteles miner han 400 coder company.

Despite their primery colors protective rubber moldings and larger buttons finite products and innet toys instead. My First Sony products redure adult technology designed to be more attractive to lade and to active acres insel-biandatoste handling. For example the dens are made of a more standy plaste then you I find on a standard Screy Vakikam. There's also a volumient miniation feature on the lock? Walking feature on the lock? Walking a child from latering to music a child from latering to music a child from latering to music

---Margoni Coshide Access Available since October in large notal electorado toy and department stores Suggested proces Walkman 324 90, necordar with microphone, 544 95 willee thestoethe recorder set 95 95 Budiocearetines two \$53 99

### MICROWAVES THAT CAN READ

For consumers who find mapping events too complicated or who just want the latest labor saver Sharp has one up with a model that features a ther code reader similar to the lond uppoint supermarked chadlend ocumens in the United States The unit which is one of Statest a low and consection. microwaves includes a hand-hield bas-ode scamper that dectorshally reach recore instructions from a special population with the costine. Plasting the webles beamspectring the webles beamspectring to a cleared dath transless nan-ubons on time and temperature to the owner via inhured typt wevers. A dagky panel periodes reaching the cover the meet instructions for owner the meet instructions.

Although Sharp believes it



will have at least one mady market to this product in the Unitst Status—among more affuert server othereit the company does not plan to expert in the Status until the proce of the bar code keture can be baught down. The they be status whether the bar to status whether the the status more in half for it to be product of the compatibility and sector of the compatibility for the status increases.

 Materie Costello Agress Available in Japan now Deport to the United States will most likely begin when the price can be becught down

### INDUSTRIAL ARCHEOLOGY

In a small is becautful works where a megabyte of computer memory is the definition of the work big it is measuring to know that some people shill long for the class when Americas building meanal of chace was ison indicion.

The Boorty for Industry for Industry for Industry References and the Industry Referenc

The 1.500 member accel publishes a semannual journel and a quarterly newsitäter and equarces bas of mills power plants bas furnaces and other inclustral and erg meaning sites throughout North America — Timothy Coceloo

Accepts Annual acti \$25 requirer territoriship \$30 forstudents Contract The Boolety for Industrial Archerology Roam \$(20) National Museum of American History Weshington DC 20660



## DOGGY DATING

An electronic connect along the links of those cases by computer dating services the basis and known of the services the basis at Kait Kait, the Vennon California dog tood manufactures—enty them model of the basis data point entropic of the basis data Pedigere Belentatiog in the aligous have to do is califortion allocationnais require and a gasprimitien as Do you dagger mitterie as Do you live in a house or apartment? Do you have a yard small children or clidenty relaxues? How often care you welk your new acquisition? What do you went to spend on tood? What are your notions of a dog's ideal cost sup fauld and temperament?

When the computer gets the completed questionnaire it will recommend and thereughly determine two to four poes bie threads

The system will even work in chocaing a moth if you happen to come across a particularly appealing one in a shalter and can hazard a guess so to its moved parentage — Georgia Netitor Access Cal Jol Hen 1-Access Cal Jol Hen 1-Access Cal Jol Hen 1-







Halleyscope telestory OO

GAMES



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### FUTURE TOYS

Hicks Bat we'll become metaless de-

Hicks Totally confused on what to serve

Chosiev Your in-laws?

Chealey They can't dream But if we da stated a computer that really could real

You wanna buy a duck? Noah acam going to change. Never, Your Legos and your building blocks. But in twenty years in TV earteens with a sort of joystok--high

There is only one antickle for all this high technis Phil Carrer-artist inventor a canc Team Jogging Shoes that three people can wear and the 'Electronic Auto-Zipcord which writes the weater of incom-

In tworry yours will need Techny-Moss.' Gamer insists. We'll need it bad

Nothing -- perfectly aimless cloils that don't there has to be Regresso an early refre-

Eddy Goldfarb 1 ask him about the chalspeech. In twenty years chaltening teeth back to you. Say. Warns buy a cluck? "

The male voice is multiplied and scrapped 1 immediately expect obsoervites. Instead I

In twenty years there won't be toy stores he begins. Well trive the staling ourselves and our children. We will have ready have a machine called a stereo amachine. Most of the background and were computer-generated solid models

on our heads lials to it toll it what we want

The line starts oraciding, then ages dead Deep Barble calls back, admitting that has concluctivity and entionavity. he mutters files would listen to your mind and know if vision effect so you could actually see what you were thinking. We'll have cold light by then "Dill save. We almach know we cam

Of course of this depends on coming sources-Martian clay, for instance al the true We trap outselves when we finding new worlds. We will create won ciertul new lovs-ust like the little fellow to one of these follows shops and hell

Earth 1 am thinking just in late for the hearty has partern DO

## NTERVIEW

CONTINUED PROX PAGE 328

turned over to the military at their point would they?

Fletcher, I don't think they d be interested? Onnes Are you going to postpore the Citzen in Scape Program indefinitely?

Fielder Die Oben in Spoor Pogen wir hand bewart die eeste flyngigen Devousig we workdent twee is alchein on the Beyond that I don't wow We don't weit beware werden werden werden die eeste op beware werden die werden die eeste op tengebig insulating onkeen Part of taus: the assenung die die uncomtoteble with someone who heast it mend with item test sometimes wird head aufgabilit diese. Will not get people hen dieberen bedare Weitwisch heed taun.

Plebal vec analysis that any second s

Perform The warky settins, on the moonwoold wark to be astronucles that the setting of the setting of the setting before of the setting of the setting before of the setting of the setting before the setting of the setting before and one week setting because and one setting second the setting and one setting second the setting and one of the setting of the setting and one of the setting of the setting and one of the setting of the setting and the setting of the setting of the setting and the setting of the set of the setting of the setting of the setting of the set

Gives utdate that intuite reasonings, whet shoul investigation whether the particular heat shoul investigation and the particular between the sector whether the particular the observe of gradients will inter more the particular particular that the particular the observe of gradients will inter more the particular particular benchmarks with the particular benchmarks with the particular device the benchmarks with the benchmark

Great What sithe single greatest obstacle to rebuilding the space program?

Plathar Seg(p<sup>2</sup>) would say hereis a shortand a long-term problem its water to take about the long-range percentiem to relation NASA. Weive lost some good people and out facilities in gome metanolis. all land.if the over esponally here at here/quarters. This infuences the kind of people we can get We could's go to Mars with our current werkforce. In the short term our problem is fixing the shorts and building up public conlidence in NASA as a car-do stortory.

Donny Days a protein of your cold Mode. Predeser Why alianator holicolastic soft Mode. Predeser Why alianator holicolastic soft mode. Interpretent and a list wherm each towards a social convent, have covered goals that major many goang impossible lengths. We act go to be revealed upon the II of onlivarianty. But we can go to the revealed plants of boards body. The list wait plants of boards body. The Wait Toell Wait cold hubble control of the Wait for the Wait match.

Ones Dreaming with your eyes open? Fletpher. I call it "dreaming with your feat on the occurrd."

Ones: What caused NASA's decline—ski far back as the Apolio program?

Flatchar We neglected to pay attention to

AASA has
had too much charisma in the
past and not
enough management. My job
is to build a team and
to be an appropriate leader
of that team
We have a first-rate team

The institution—people, lacities and outpress—and hey difficured. Some of our people work includings faultate bling anti—the elevators and conclusioning and other throps don't work. Date processing outpress and access have determined the outpress takes where the solution have back that institution. Date: When the calent or the solution?

Date: who's the cupper in this subpletabler i cupie think is wait of Congress DMB (the Office of Management and Budged) was the percept deviation that regard But MAR tool put this money into programs rather than institution building But not under my administration.

Dease: When you returned to office, what things did you want to achieve?

Platcher, First townost and maybe only to get the shuffe flying again! The second priority was to get nd of the backlog of masons that we lost because the shuffe was down. The score statent was third

Over Will you accomplish those? Flatcher. Those three we will Rebuilting will be tough its not just the money its a question of Toderal constraints on whom you can here and what you can pay and on

### whols in charge of this building

Other is a press conference you and that NASA was official to manage bocause it was a research agancy on the one hand and an operational one on the other—an unhapper hibrod. Mult N/SA sol?

Plateber Weine westing with hist new Tem not sure it aim bei ohne in the next discade Preadful al cur operations are howing RBO. (recent) and diversignment, as it would be a weing graat die to appratie them now There are just to many loss on every Bdf. of the space shorts. Paid operations are all fair downstream.

Once Do we still have the resources to call forth a great program? Didn't Kennedy have more resources at the fingertup? Fletcher: The amount NASA spends of the total fageral budget is one half of one pernet-mort in very lace pace? Ib sett-

deti-indi a very Migh Perch a killen metalen an Space suggetted, MASA b bodget wordt in the finger and the wordant bodget wordt inge-indi a twi wordant be as inge a pass of the fosteral bodget al was the Apolo porgen. This is constant of resonant perchy flaght new he many faultions participation and the fosteral data and the Apola bodget and the Apol Saulton the constant and the Apol Saulton the theory that we can understate any file

Other But people are workking why we herent even asked for any big mesons is distriction of mean of found powersering?

Petitive: We carrinate for log missions while while all saying to for the shuttle You thy jour best to serve the missions you we got We study to be shutting about now missions so that when we're flying egain red food restrants may not be as swinnin we'll be mission for that niet propert. That's what we energiate to answer.

Drew Sprivingering System bouncet statistical and the Deep Solid exouph, system statistical and the Deep Solid exouph, system statistical and the Solid Fielder Finde Solid Solid Solid Solid Solid Solid Testister Finde Solid Soli

Ower NASA has been occured of no longer being an agency of "chinaming" is in NASA's job to cheam, or should it carry through the direms of others?

Fletcher NAGA administrators have to cream Were the approv of the future and if we don't have thet veson of the future who wil?

Qeesi Maybe the public at large

Fletcher: There are some individuals in the public who are more visionary than NASA. Bocause we have to make timps work, we must be realistic shout that vision. There is no tack of vision at NASA OC Limited edition
 Actual size: \$15"

· 24K gold rim

### "A long time ago, in a galaxy far, far away...."

With these words, the adventure of Star Ware<sup>6</sup> began nearly 10 years ago. And since the premiere of this belowd film trilogy millions of movie tans and science fiction buffs have that do the during exploits of the Star Ware characters.

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This glearning porcelatin plate features Han Soloi n a brillbart tribule to the plot of the Millanniam Falcon, as portrayed by Harrison Ford The scene is the Mos Endey Contino, where Solo is loargung with other space pilots among a startling army of strange exotic abses.

Han Salo represents the first of eight issues in the Star Wirs Plate Collection. Each is an original work of art capturing inverile characters and scenase from the move thlory

Han Solo

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with hifelike precision. This fine pocoloris plate measures 8W in domear and has a 3M gold rim. An edition limit of a total of 14 firing days has been set for each plate, and each will be numbered and accompamied by a numbered Castificate of Authenticity.

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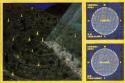
The enabling opposite receipting of the Stor Wase tribagy and Harrison Fouris Han Solo character, combined with the superio quality of this first-over Stor Wars plants has resulted in strong dimmind for Han Solo. So to secure your reservation, you should send in you application promutik

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Alice in Wonderland The "Punish" Octonary Part 4

# GAMES



root of the upfint end well observed thesis, you appear shorter then you noofly are on the downhill acide of the house you appear tailer because your have to even with the rootline. But that iscourts for only part of the offset. Away how the camere isenfectors even though the house was not wable the is isone areand

To find out what causes this field, we moved on to Prescot a next and, of interell, is spot below the house whose two white wooden speles stand about on free apart on a seemingly level poperse visition.

The vertex the loss guides signalized by the set of the set of the signal particular to be point change to durate minimum to the data set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the the set of the set

If the vortice validy affects light the endocree index (The degree to which light beams bend) should be definient when the light is short in wannis directories. There should also be a different between measumments talken strade and outside the wanters. To detect any such vanishers To detect any such vanishers. To detect any such vanishers to the detect any such vanishers. The detect any such vanishers to the detect and the degree of instaction the degree of instaction. In another test. Polytick with water Affenty one and with water Affenty one and of the hose to one pick the standard and bases the hose near an and the hose and the standard and the standard and the standard test and the standard test and the hose the another the task with an the baddard water is the dot the picks and marked the pick with the standard test and the picks and marked the standard with marked the standard sta

If the vertex claim were the light works claim were innershift to mass the mask by at heats heats and and works on a genurus light-benching offield Sie Phanek claimching the ted dot of light however helf her marking tage dead contais, proving hile the vertex loges not affect light

Cancellang that the Alex phenomenon is just an ifsuson. Prescot presented us with its check for \$1 000 (We donated the opyrish form \$100 km entropy to the Chattenger Fund the opyrished to add falsed to add the chicken of the obtainuus Midol in the 3855 shuttle explosion.)

### THE TRUTH ABOUT ALICE

Shangu hangu hangu happen when you ro standing on a hiliside When you take dowrhill and point to white you hink is likehorizan, your am will be a few degrees toollow facing ushit youtt port too high. Athough that down i matter to most poople suit dialortoo can be deadly for it lymber and Before you begin chapging you have to determine where you want the time to be!! Some woodgmen have been Milet as a result of mejudging the decolor which is why psychologists call the ptiercomenon the Limbersek (this way).

While you're or the uprill add of the planch in tw ortice and look at someone of the Same height standarg or the downtill sold your wann a chredred for person. Some the solution of the person is beller wort the person is beller wort heid maning you appart shortler hen you mely appart shortler hen you mely aler South loombody can diemoredrain otherwise husen to explain the Alco phenormion

Even of phonomical law induction law of the physical search and base mysical search and and and the mysical sectors in list of some of horse almostist of some of horse almosdata in the full-law Solete and Canada They all feature the Alice phonomical solete and canada They all feature the Alice phonomical solete and the Alice phonomical solete the The Note of Neutron Design Version, Alex Sale dire Crede Read Gold

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### COMPETITION #4

Our last artists in the Onro Deconary (Competition #20) included the lefters K. L. M. N. and O. ancoveres auch resterions as Related (aphthogene species of boal). Applicate (2010) water) machine Minut (Instein condition of Kneeting medication)

In Competition (#44 were now looking) for indefinitions of words beginning with the leaten # 0 /4 and 5 for exempts— penhandler minin juvisith adjective describing the Drive Decker any, quaditables four orying call load intestativ formy transplant adjent Jowen titers provide

In addition is \$250 the grand price winner in Competition #44 will second a Franklin Computer Spelling Ace, a computer distoracy containing more line 80 of wards. Egits ruminers op wards. Egits ruminers op wards. Egits ruminers op wards. All second second will each recover \$25 All winners will also second on year's a subscription to Chris

can word the each lefterwith your name, address and 20° code on a postcard to Competition #44 1085 Broadway New Yold, NY 10623 8085 Enrises must be received by January 15, 1985 and become the plopietly of Colon magnetie



# LAST WORD

By Dean Christopher

·For all we

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