



SOFTOR & DISSON DETECTOR, SOS GUCCIONE
PROSIDENT & ASSOCIATE PLUS SHEET KATHY KETTON
PRODUING CUROOS SHEET

AT DIRECTOR FINNIK GOVINO WARLENG REFER J. ANDERSON DERMAN INCHON EDITOR DE SE REVED DIVIN URSPEAN EXTER DE SE REVED DIVIN PRESTAN EX ADVENTINE DE STREET WARDALL

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### FIRST MUSO

# CONTRBUTORS

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manager of the Voyager project, and James F Siden is occupate graphics specialist at the Jet Propulsion Laboratory, have prepared in series of sturning smultipore that sides are to Seturn's emerges in advance of the shall flygs Matocalaus calculation and expert trespiration furnish our mades accura science of Sotium and its moors as they the Voyager enecestaft. Get aboard on page 64. This month's Earth ookuren. "Norwo

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uch begins on puge 52 is probably be mown for this nigwells The Hostier and The fac Who Felf to Each These with size a hort-story collection out in January calls ar from Horse. His is now working on a croamplay based on his novel Mockigberg. Awardisupdate: George R. R. March.

won the 1990 Huge science-Action award for two Orniv contributions. the short store "The Way of Cross and Deagon" and the noveletic "Sandkings." DO



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### COMMUNICATIONS

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north face of Mount St. Helens. William G. Johnson

Newspalan, Conn.

Carreson Ancontors Financing Row to the Creation Math (Continues August 1980) Life out do de

the accuracy of the research done by Dro. cluses, any more than texting four blue. houses in one town "suggests" that all

None of this "reconfirms evolution" nor admit, and pledly that it does indeed indicate a common source. See what you Red Carpet to Space?

Red | (August 1980) | am pained to frenk rapidly laking behind in the space race Coverill's article to my state senators. With

Prime-arre Preachers Tayouty Bey (August 1980)

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Enlarged Heads

small event in Brien Exercise (Don tower. Secretable: 1980 lifest Leculd placed in an enriched environment has been described by other researchers. But as stated in your article. Because the adul

### FORUM

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### Space Platform

Regarding Daniel S. Greenberg is "Partificin for Inguese" [July 1990] American Catazina hales the sight to know what scenner policies they self to know what scenner policies they self to work sometimes that the seaffer The next provided in the United States and have they can't not fleen very status, and have they are handled ut unicabilities of stemme. the counter this nation well take for many years and many the control to the form had the United States manchain who provided that the United States manchain who prophylogogical leads in the size and let to case.

### in science. We must be careful that shortsophied Podoral policias do not unclaimine that lead which is now happoining in the space and aviation tields. The retrengtiment of

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Introducing it to Earth 
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scennic statement on large space structures and other technological advances needed to form a substantial maken's space industrialization capable of the first half of testing and the first half of the first hal

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But Avans No Ere dempassions

Finally, the knowledge we gain the lechnology we develop, and the scients and engineers who make those advant possible will form the core of a sectno-log collineassance in the Unicad States (leading to a more vigorous occinotry). In this science is a more section and a more people.

John Anderso House of Representative Wasterman, D.C.

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Carl Segan fornell University

Aws Raca
My impression from "Rare Bird" (Adv

### EARTH

By Eleanor Smith

n April 3 1978, Louis Benne chell plot and manager of light, parent on a formal program. On May 1 flow weeks later the much decrated Art Proper victions was his placified expenseuring extreme pair Back-and other marks appeared all over the body He arms weeked up to telectrain marks.

he copy has am sweeped by Disclose that normal size. Bleeding began through the mouth and nose—and then internally feel days late. Berne lay homothogon from a canter in his bone carls. The right before his death, Berne revealed that in 1931 he had switescood a seeke of U.S. government nuclear backs on the larry Poof in stand of Erweete.

A lot of people were concerned about the namingers that we would be exposed to on these abone shirts." Before recision the Amy fold us not to worry because five namingers a month is nothing. So they said they would make it to ... Then they said the nothing. Well, the turry time is the wind shifted and everyone gother to wheen certigers. So they had to up the

Barrie a wichow doesn't think is any humy Sin-has some issured shather hubband was an change of the arrival has channed as an other part of the fine channed dimugh the blasts mushroom clouds, contacting an samp his dusen soluted flying these planes but was near the other poles some to prosecute cooling. They was tilm back to measure the most allowed of the obsegut to measure the most allowed of the obsegut they was reason allowed of the obsegut Doosthy Barries applicable to the Western Openhamma projects the Western Annual Country States They was a some control of the obsegut to the was applicable to the Western they was a some control of the obsegut to the was a some control to the Western the Western and the Western the Wester

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has done his own investigation of the mannes who served with him in Nevada, during the 1807 bomb sets Section C of 12 he s located C it 12 he s located C it 12 he s located C it 12 he s located A have cance and 4 have cance and 4 have many set of 180 has been set to 180 have cance in healthy. The says a state of 180 has been set of 180 has been

afficient with physicistics of systaction desires. Most have some since of carrier particularly leukerne impeloras (carrier of the bonemanne) mallinoma (since carrier), and cancer of the bladder stomach, or percees. Department for some of the percees of the bladder stomach, or percees the perceetable to airci mixide diseases and recordaged in the percentage of the perce



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# SPERM HAZARD

# By Dr Bernard Discon

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male o'w confrequentive, goesypol, sust as frousands of Puerto Rican women took As for the dangerous aids effects of the plf, any perminent or compensarion main-skelfer of the human body comes some risks in fact, recent studies indicate that the pill fleey be for safer than an increasingly popular main lechnique of tentify control vasoctionsy.

that the parties are safet than an increasingly popular mast behing a distility control vasoctomy. According to several receive process of attaccation may have an increase of attaccation may have an increase of attaccation may have may be accessed in cation and the attacks of the attacks. The charger is sufficiently waying to the Naboral Institutes of health to here exacted in the company of the parties and in-

BILVEYO OF 288402001/9 supposed plausopes elementors. De Naticy Alexander and her opimençores at no Diogon Regional Pernasa Rassando Cartar en Beserron, Clegon, conclucido de haisanch hait laste saledi frese an extes. No cale and partir play de conclucido de la maienta frait las saledi frese an extes. Por cale a portir a portir proprio de la constitución de presenta de artificio de signa not incluento. Des presentados artificio de signa not incluento.

he breekdown products— look into the bloodshoan. These they between the rovery inwanters such no bacteria, providing the production of writtedles. That is not the end of the story Dr. Alexmander's secantic group has found the wascotterused morkeys (which also proclude artificials are and in service) and morking of clude artificials are and in service.

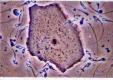
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horaco acrtal Norse of the eight Controls stifted the same damage Unite easter investigations the Chagon sport provides a plausible expension for what is happening. The artistal frequenings in visualization for the properties immunoglosisting—the very more all out of which artibodies are made. When spermissions said out mot the spermissions said out mot the

agermistaces soil out mot be bloodstream, they appear to atmust a tremanutacture of entibodies. Those attack, and attach hierarches to the sperm fragments, which in our bond to the wall of the blood vessel. This damages the wall and appearance of the record of the blood in a seen report in reymonitary below.

Di Thomas Wagman from the University of Months, about on the University of Months, about of Daubon in recombining british residency in a month pool of Bauton in recombining british residency may be recombined to the residency of the Policy of the Policy

accompanied earlier types of the common types



### FLECTION TIME

# SPACE

By David C Webb

In U.S. spokes programs governor by poster in Years and the Section of the Sectio

perhaps it is occasive agade in service dominated by oceanism and engineers who are noticesurely appointed. Whatever the escores, the streety decline of the U.S. applies program over the past decade makes in plan that the pro-space constituency has not gramped the mostage so well understood by other appeals of most gramped.

These are agreed that the position may had been been been been of the livestate for the book some Dauly of Bapace within grooms in the beauting rooms and beauting rooms and the control of the methods in resident and the beauting the beauting

"PMC), and the first offers of several organusinous to condinate here educations activities. He and is a making by stating. "While it is too early to judge the effective relia of this emerging assus soleans. In aborts space poking in hims may well reflect the input of an entirely new ballegory of

advocates
It is up to ue to ensure that national

general decision this year provides useful attemption and animode apportunity to vacious or programs at the balliot box. (D help in this processe the balliot box. (D help in this processe the ballion to the Otherwije Belger at the works of House marriades on the Companies in the ball to help the ballion to the Otherwije Belger at the ballion to the

capon, periado, their these maters are generalized unimportant.)

This election also provides our only apportunity to register an epinonian. President Carter a special policy (which oals for more of the same) and to decide whether we other reporting office.

calls for more of the some) and to decode whether any other candidate of lates a better either after a the end of the candidate of the candida

The ballet bas, however is only one of the body we must be provided by the body we must be provided before discharged by the provided by the body we must be provided by the body that body the body the body that body the bo

about the warkings of the legislative process. While tabling to one of the most supportive and respected members of Congress, I was shocked to discover their hall had never even heard the name of our most active space organizations. They safely war must live with.



free State of the Union address unites the powers that really control the U.S. aparet program

# SORRY SIGMUND

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Qui Obtio Hi

olk on ticheep at least not when the paracon listening is a theseexports occiled talk hexpess are only one of the control of the control And studies are showing they seem to be all estimately limited value. Only certain knot of popple with meld forms of imental trouble appears to get much behalf from poyabological churchs.

tion psychological disturbing Creen that notice, therepeals will such the type of potential has one grown them to grashast chance of success. They invoid the most took and cased whem they are produced to Society and such said of them they are Society and such said of them they deliver of Footbern University Theresizes is not treat with 5—young, alternative virtue, maintgent and successful popper Such moveluse and them societies for such thanselves without hasteries' and if another without the successful popper in the successful popper such maselves without hasteries' and if another and the successful popper to be a successful popper to which is a successful popper such that the successful popper is the successful popper to successful popper successful popp

The study points up a growing trend in psychology today. Therapiels are working more and more on mild deficulties of life. that wouldn't have called for any treatment.

ing savius psychological problems to the spongelse doctions and pherms obligatis whose treatments seem to work far batter Freud and his disopte claims and thereto sits could ours severe onturbences that the exidence against talk thereby lodge is too great. Now many therepoints have insteaded to figiller.

ground because that isothment simply doesn't do much for the severely studied. The third found side of this significant was first absent by the document and electronic docume

seriously disturbed people
Whet is left for the stadsonal therapists to treat are mild ansected shynosis stactions to normal life crises and other

afflord what is probably uninecessary from therappear hawmen of the control of access population and access access to the control of access population access population access access to problem effects access access to problem effects access access to problem effects access the people in the access the access the people in the access t

It doesn't mater what hard of psychologists as applied—and fines are how more than the first properties of the gourthand to choose from They at work ogusty well.
The theopatil's experience has no agretiour's effect on successful treatment, heaptings do so well as august psychologists.

afficially and treatment had life apperant banefit for the protent.

Pipflents land to prematimate the amount hely to boan halped. Adjustments if work or solbool emprove much loss than do the maturals the learning about hemself.

patient's feelings about himself.

• The effects of reciment don't last Two years after herapy conductes half the berefices effect his been lost.

Finally and most demagingly studies have together any cand the psychotherapy can do have as well as good it is likely that 10 percent of the present by the present by the present property.

harm see well as good it is likely that 10 persons of the patients treefor by persons of the patients treefor by therapets end up in wome shape. And tablely many of the states done for are entities and their results are more suggestimetral conclusions. But the existing evidence parties a precentage operation, which the federal government grains up for its authoritative Thiospect souly of through yell offeronce, which

The 475 studies examined by Periott appear to support the findings of a pucketh experiment done at the All-India institute of Nerrall Health, in Brungstore Half of the petients were extrusted to Western bratted popular finds and half to raiswe Apurhado 1 faith healths. After the years of work the competition was a disapseful empreyment of the foot the same sental empreyment of the foot the same sental empreyment of the foot the same.

sent their patients from a bit sooner OC



# THE ARTS

By Gregory Miller

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green and blue Ethersal solosis sound through the speakers in south cabinot, soming shriting component clarids crooling an any time easi ambience. The piece described historia cabled 2 bits feeting a little throughout whose

PPTh. Averuse I diller The Druckling Miller image dominate the spread is all indial black for approximate created by British in a position of a state of them time, and positioned and in German black president as from Erica & Marco for Apports about and could be classified as strates must The video separation and office is first excursions into the phosphorestom madura, and for a pilo propropersion. The signal madura, and or a pilo propropersion of the pilopsychiation of the madura, and or a pilo propropersion.

a to make the audion/size awork blend into the environment like a Scottl "When I go into an emport. End each one eutry evening in his Markhattan quarters." I skeys find myself buying gone megicene that I leasily don't ewin to read and atting there getting field up and feeling rerry and so on I am put mid the purity and so on I am put mid the control of the put mid the purity and so on I am put mid the purity and purity and so on I am put mid the purity and so on I am put mid the purity and p

"In an airport you have this captive group of people who don't swally have gations, so you can create a place where you can introduce some sort of inside take can fitted as while I guess what I wint to desh this people is give you the feeling of being alone again flort of us spend of the spend.

temps with always fatoring ourselves to others, always indigating and modifying our between Emerical trait parts of us don't surface bocause there are a code shuaseous that demend time I great I millioning for earning of isoticulationing for earning of isoticulationing and the control of the control of

"2 Fifth Aversus" activated their by from 4 to 8 and 8 to 7 PM — 10 coincide with the terminal's peak hours Short prease in the hour-long performance allowed the lage to rewind.

breaks in the hour-long performance allowed the lape to rewind. Reactions to the installation were mai tanging from emigrated with uses in to impatience and total neighborhold and and semi-lay leading were parently ind

and service works a vere gover by not impossed. The sounds like service making one commercial. "It's gotta be some kind of aspelment", soid another. But Ero was response in his plan to bri imediative calm" and the formant. "Soo affor the monitors go on you staff to restince that nothing a going to happen." It

mediative care into the terminal system into the mediate page in you shall be extended that making a going to hought in the ground page into the care of the care four into you can just set here and bask into und and delf back not whenever you want. So you approach to be our different from reading a magazine, where you re put into position of having and you re put into position of having you reput in the position of having Storo by eart of Bearteau, where Storo by eart of Bearteau, when Iran To so we are of Bearteau, when Iran Iran and the page of the care of the care of the care the care of the care of the care of the care and the care of the care of the care of the care the care of the care

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Zina on video. The master of programmed randomness brings meditative calminitis airports. 28. OMN

### THE ARTS

By Jeff Rovin

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What Heaton has pleaned from the

as Planet of the Apes (1988) and two of its

snowty per self does reflect Heston a The relative literacy of Hestor s scienceaffection that Heston has for the genre. A Mend Tales and religiously followed the

It is a propriy kept secret that "Hesson declares, 'compared to what Brackury,

opera merther of whigh has a lot of

spectricle in science fiction, and this is

nothing to act. Most witters and directors



# UFO UPDATE

By F. Lee Speige

Bonst in Observations of Assessing President Academy of Sciences, USSR " Dated 1979: the document, a stanshoal And received by GEPMN France's official Harres, a visual-perception specialist at

The report was compled by L. M. Girdás D A Merkey and I G Petrovgineoning Physics Institute, and the Institute release it is interesting that the authors of

occurred in 1967. Asharp ricresse in the otizens were encouraged to report any

. Of the 130 witnesses who listed their occupations, at least RG percent had peots (11%) engineers (17%) servicemen . Two thirds of the cases involved multiple

witnesses, with 15 percent listed as "mass

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raport or tifled | Flight Path of Objects. | for 172 objects - significant peculiarities were noted abrupt course changes non was accompanied by sound require

researchers come to no conclusions. They take restand Gindle, Mericos and sowifile speciaties. In our opinion, the doesn't mean that the Sovet Union is

Hymous will fish UPO over Patrospyvola: 1/559

show that these reasonable-sounding sounding statistics. It is interesting to note here that the statistics correlate

engaged in UFO research. It is currous clossn't know what the Agademy of Sciences is cloing. It's not just a rumor

A statuscal analysis is only as good as clata were supplied by Dr Felfes Y Zipel. LIFO skeptos as "the reigning coan July 1980). He has been criticized for

Paying questionable prederhals and Zigel has prepared over his pares Harnes observed recently, "the great well-founded scientific articles. The

As one of the instructors to posmonauts.

space and aeroquitical spiences. In 1990 the Soviet magazine Science and Readon printed an article entitled "Talopathy A Spence of the Future " by Ziget, indicating retoworthy fact about Zigol is that he clearitasily refuses to positi prierviews. Her fear of being grossly meagabled, at least in the United States, was well founded claim personal contact with UFOs nor has he been associated with any stones Even as early as 1967, according to a

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# THE EPDEMIC TRIGGER

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cughs and aneczos spread diseases " wartime pos

stream Investigating such opportunes as the feature and outside end the breefy stammer here Kang Ru SD years listed, Louis Wentraten I' evenue assassman of infectious discoser les the New Emplacor Journal of Medicine decembers here laured them unities countable in terms of person-to-particle spread. The discoser appeared entralinencously all over the words, he noted, yet sook days to vector to spread relatively affort distinctes. Broughthy many common properties of the control of the Broughthy many common properties of the control of the control of Broughthy many common properties of the control of the control of Broughthy many common properties of the control of Broughthy many common properties of the control of Broughthy many common properties of Broughthy many common properties.

Straphthyward person-lo-person issuranziason, too control concernetity capture for some objection issuranziason, too control concernetity capture for some objective control control control capture is to control control control capture in the capture is to choose of a vertice. Seen rate beaffing and the explores of epicteric certainty-architecture in the capture is to choose of a vertice seen in making countries. One of the feesting leading to the capture is to control capture in the capture is to control capture in the capture is and declares who capture is controlled in control capture in the capture is and capture in the capture is an explanation of the capture is captured in controlled in the capture is an explanation of the capture is captured in the capture is captured in the capture in the captured in the capture is captured in the capture in the capture is captured in the capture in the capture is captured in the captured in the capture in the captured in the capture is captured in the capture in t

When George Bennard Shev denourond the gave sharpy and doubted as modern speration of visits assumed level speral flow by the doubt and among the doubt and are sharpy and the doubt and the speral state to T.P. Mapple, it has president address to the Amonaco Associator of Immunologists, actional flow Medical socials for not required inflation, the distriction, the control of the not included and the doubt and the doubt

People in croads here often been seen to naque a kind organization in when they appear to be libbo over by ormatical. It is exaligated to list of perfects on reductively through the control of the control of the control of the control of mental or ordered the moments of stating in no foods in it seemed or ordered the memory of the perfect of the control of control of the control of the control of the control of control of the cont

The years ago the Harvard psychologic Manth McLinschell beginned the valued of missach into contemed the reality of pleasureann receibly Mary McCentry of The Group. But over the property of the property of the Group and the contemporary and some propose of the lend that gives people in cowds that the property of the property of the contemporary sections of the contemporary of the contemporary and the property of the contemporary and the

This could explain the existence of virulent pathogons in the bades of hashing people. It could also account for the inminute of Max van Petersider and the collections are senting existent into year and work of the people of the collection of the people of the collection of the col

But what gives the signal? And why? Those are quests are not begun to answer — BRIAN INGLIS

### 

### TRAUMATIC TALLNESS













ACQUISTIC LEVITATION







# CONTINULUM

### DHING SI AUGHTER

Taking full advantage of

the political unvest and lawfeastness in many African Wildlice Fund, says. In

dagger handles can sell for \$15,000, mino horns are sold for \$300 an ounce. The hour tolklore, its phatic shape.

of least 45 minutes. Ground

SILICON FALLOUT I a medians, mostly in the Far

poschers, but because the

sodaration, there is even talk

con-laced fallout from Mount 52 Helens in Washington

terrested Just one speck of

mutalized in entryweigh to

theart any oriant seco. tribers work also temperarily

possiched says National



### SPACE DRIVE

The plant was scheduled | ing board The difficulties





### HOKU POINT

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real. The nerves of the

### BOMB DETECTORS

FLORANTE Tags in other exmated 10 percent to the

Taggard research hersan

oversees the Office of

use commercially available explosives, and the use of taggants is expected to

### 3-D PHOTOGRAPHY

sold mage - CR



# 

### **BUILDING A** SMARTER RAT

- grove 5 to 7 percent as

given their food in another

brain changes from passive activities, such as wittering

charges due to expensoros beginning to be collected

mans - are not convoluted Bernett added that menta

### MALIGNED SQUID The grant sould, with ten



A multical grant squid propares to ensor a Homo sapiens appetities the stimulation had become offy rather shy and not the

ton in fact, the large cephsaid, "Our bases are that facetes -SD

stitution following referes: meter-long gent sould on a

While small squad (30) per reach 21 meters, are so

guestions." Clyde Roper fre smeller scrade, nor can they

> behavior of its more diminmeters long, inhabits the

was found intact in the est grant squed, "one of the

tures" the Smithsorien sevs.--SD



### Why a particle's death may unlock the final secrets of matter **PROTONS ARE NOT FOREVER**

BY ROBERT MARCH

A diamond is, of course, not re-sky forever. Diamond outlors do made of may be quite capable. What has excited physicists is any foreign C United Others do mission of may be quite copieder monage do make a larving. Or extending before on experiment per supplementation of the company of the comp

PHOTOGRAPHS BY DAN McCOY

built motion of an Ford's Group Demonstructure of the Control of American Control of A





- What has excited physicists is the prospect the unpravaked "sweide" of a single proton.



could broady intentify the idemate highlight

understatement if resis on move the acis backed by last year's Nobel isuseates. in physics, Sheldon L. Glashow Atidus a proton-neutron is at least 1030 years

only about 10 billion or 10<sup>rd</sup> - years skd But there's prother why to look at that tors-equal to about 15 tors of hydro-

the provide of proving deray will not be looking to posmed new flashes. Even deep under

orchnary matter unit meet an electron and gone forever. The resultant restation.

puter to reconstruct a picture of what is

flashes of hate in a large lub of water 20.000 memorros in a particularly useful

tered on the particle's path. The patient if

nearly 800 tons at water it is too gruck to

able to see hundreds or thousands each year Tres would end any doubt thet matter

is usuable. Note in the other challenge. Note in the challenge and the challenge and

second of medicals in they be second of medicals in they are fleeness stockes stable Affire if it can be fleeness stockes stable Affire if it can be seen they are second in the second of medical in the second of the sec

Daily shafely more madeled are the places of Chard Chee; of the Liverseing of Western and Annual Carlon Ribbon. They was currented and the fallow Baker Fine Park Chy Libb. There they also must be part of the Chard Chard Chard Chy Libb. There they also must be part in the wine without blacking roots (which is made) a robby! Their severeing only one of the control o

To sew on the cost of photostobes and acoust delying on the purity of water Cline and Rubbs will have 400° eyes? on a sixtic throughout the poor. A storing signal should be detected by a few subset closers though the update the protein destripation. Though the update the protein destripation than in Remarks department, a may also that in Remarks department, a may also The routly before these groups has un rocker level. But his update place the traces have. But his update place the miscar level. But his update place in the control of the miscar level. But his update place in the control of the miscar level. But his update place the miscar level. But his update place the miscar level. But his miscar level.

of maximox physicists who live to garrishe on long shots. One member of the Reines basin said. "We all direk together at scieninto meetings after the establishment types have gone to bed."

CARN

summer and fall of 1979 as each team in turn made its case before seamingly andless Jourday of committee meetings in Washington DC in the end the Depart ment of Energy gave both five go aftered to the fall of the process.

the diskins were too high to rety on a single reportment. All this will set the American tappage book some 30 million or 34 million—the case of a modern satellar laurent or about the cost of the vision with game because or constitution to set of the cost of the vision with the total set or constitution will be sites in highway surrough the budy one unifor Mont Black and a new are further.

under Morit Blanc and a new one farther outh at Présis Flance.

Ether lumes would bury an expeniment under nore than 3 000 meters of sont out. Ar such a depth costnic rays are soluced to a rockle, elemente ja lot of false spreis Morit Blanc blendy has a substaté sono garlary and the home authorities are wing to provide one at Fingus. But the officialise of the finance of the provide of the officialise of a finance of the provide of the officialise of the official sono and the officialise of the official sono and a finance of the official sono the official sono finance of the official sono finance fin

Confirmation of proton decay would offer a solution to one of the most perplaxing riddles of cosmology. Why does the

unwerse contain so much matter, with only traces of antimatter?

blasting rock out of a busy highway tunnel

To reach the 100 fees plus range, the concerns are obliged to transite water for more denser, and more expensive reach in Two teams one headed by Flanch have been as the control of the property or projects on the cleaning blocks both to likely 10 be sproken? "designs, about hing this layers of some header yranders," on as on with electronic counters. The collage or and with electronic counters. The collage for allowing the 50 miles.

give a sharper picture of the part energing from a proton decay than American matic do if the hightitle is enough to give a reasonable signal the quality of their data may outwell sharloomings in quantity.

discoveries that have dramatically changed our understanding of the atom in count years. Physicists once believed thus most substance porticles, especially the proton and neutron, were elementary immortal and unchanging instead it now seamsthay are "atoms within atoms," each, made up of three smaller particles called quarks. Electronia along with their neutral opeans the neutrinos are still flought of

an elementary. They believe to a strong control and particular leaves on the control and the control and the concelled and the control and

protein and response. The whole scheme hangs together coulty all some of no chadars as sent as only all some of no chadars as sent as only a sent as a post of the most is to a postion with a portion in to set throw on the formulant of the scheme parties of the sent as only as a postion of the sent as only as one as only as only

tween particles, for particles sowerenly as vehicles for these torces. Quark and lepton, matter and antimatter, all should look much the same to this unded torce. space it comes who play only when quanget 10% brace closer to one another th normal. If a proton were the size of the so system this distance would be the claeter of a pea. The quarks move mode through this space, so an encounter if

books a consciousy rate. I may any in protor has such a forgiffe.

When how you is, legy lace into a poculier, but floory has it, legy lace into a poculier, but floory has it is not been a poculier. I consider the properties of the company and the particles of the company and particles. On it control it reflects is regard only in the sum of the disappe of the company and the sum of the disappe of the company and the sum of the disappe of the company and the sum of the disappe of the company and the sum of the disappe of the company and the sum of the disappe of the sum of the company and the sum of the company and the sum of the

toris third quark, feeting the tree quantities, the major Marke has windfeet eleverable than excountered any entrement to the control agent unless quarks are small enough to get that close to one another (thereinther that the loses operation only at additinately after the close to one another thereinther than to the common of the counter after the counter of the counter after the counter of the counter than 1,000 throws shorter than a quarks of market another than the counter of t

microcontric helm. This finite soon is the neuroscientic helm. This finite soon is the neuroscient process. The process may goomstop possed for the process mortality nouse and pred of the process mortality nouse and finite and send physiciate of finite new disasters and send physiciate of finite new disasters in all leadings.

ery one will out of the writing possue in the long house of physics only be such long thrist have pead off. The first was changed in the first was changed in the first was completely from the fall of an applie to the occupant of the most and the physics certainly was Erreat. Hotherford a contraction of the most and the physics of thron mand to the store, moster to the conventional muchas at this carrier Whether that new gomble will be the physics of the pay did not may be estitled deep in the pay did not may be estitled deep in the pay did not may be estitled deep.

This garmete bees gay off mmy species are not to the sen in which physicals has progressed Strough holden by pages and meas perpensive part for accordance. The new surpress beyond the world off sparket until you useful the valued to the surpress beyond the world off sparket until port section to that depotages. To gain a desided knowledge of this appearance parties are not except to sea action the section of the section of

A success sould also be a bonarca for lashrophysicatis. In exact solve one of the more perplacing addition of cosmology Why does the universe contain so much master, who may broad of entimates when all known physical processes create matter and astmates in equal amounts?

mates, web-only seaso of antimates when all knewn physical processes oreate-mates and antimates in equal amounts? But a spotopular,—the product of a tusion between two quartie—to exempt from this role in the Internated cit the big burn, when all the mates in the customs will consider the mates in the power of the control of the mates in the power of the been control. In these materials, may antimate may have been converted to make these the collections of the trails of them that was wound creating the midiation was noted to do fortimated the midiation was noted to do fortimated the midiation was noted to do fortimated the midiation was noted to do fortimated.

honzon to the earliest indust of creation

can transform matter to entirether as staggering. We repliceled enough of the energy locked up in make, safest than the tracken of a percent converted in ruckeas reactions. Set, it is a long step from under standing is force to manipulating it and the thacky gives an left of those to speed the clamber of a proper filtrat day over comes, sometate will all set have a power boxyon.

scompatis will all last have a power source suitable for use in interested in how? Those are high hopes indeed, even the physicistic programs to teel them know the disch is stitiched against them that if the hopes are disched, it will emply mean that this generation of substance physicist must committ themselves with exploring the works of querks. Whatever less beyond must then be left to their substances and their them to be fit to their substances and their





Just as Harold began his new life. the stranger appeared

BY WALTER TEVIS

I was only three months after he had left his wife and children and moved in with Janet that Janet decided she had to go to West notion for a week. Harold was as an art professor and Gwen s him to take a year a loave from his

highlify across her lovely bottom

PAINTING BY BENE MAGBITTE

was very international. The mass in the time hours to clean up. Then he pocked hirrself a breakfast of scrambled eggs and last Chemex Direate the coffee he walked painting-not that painting that durch apademic abstraction. But there was no

She was in Westergton now as a consultant rigion with me. We need to be apart from each other for a white. I'm beginning to feel suffocated. He had nedded angely while

One problem was that he distrusted folio distrusted Janet's fordress for her cars people who talked to them were trivial. And

a truck at the corner of Mackeon Average Three workmen in white underghets held had replaced the building's front steps ing happened, nothing seemed to change He locked at his watch, reheved it was

As he was watero in a coowd at the Third "Taxif" and a man pushed roughly past man conferred with the chiver for a moment. He did not like the many look of confiproperty of and new a adoptivities appealed combed har The light changed, and the

Harold crossed and went into the bank He werk to a liable quickly wrote out a over toward the line. Halfway scross the lobby he stopped cold. The man in the

nonced-Addas He was looking idly in Harold's direction Harold averted his eyes. There were at least ten other people waiting behind the finished his business and left. Harold cashed his check and left, stuffing five learned to paint again to be the soif

> He glanced down Park Avenue while crossing it and

sweater and faded leans. from the back,

disappearing into one of the tall apartment buildings. He shuddered 9

supporting artist his whiskey distante had door That had been two years ago in Michigan Whiskey had left frim #881g bework. We'll he had been free of whiskey for

thousand could not pay Jenet's rent for New York place after two years of living in apartment. When that photograph was Michigan and was driving a Chevrolet. He glanced down Park Avenue while

ing into one of the tail apartment buildings.

stated his billion from a rear to a front told him about that twenty years below of surly Puerto Ricans with well-muscled sim-hipped black men inghained him, with long tight-assed trousers in pale colors

clean numeracing Possibly European chilled by the thought of him. Under the

For lunch he made terraelt a bacon-

painting after all it was really working. He subtities. It sounded the for a sunny fall afternoon. He walked down Madison to-

less La Bazaciene, La Bacu. He would have plain barber shop with a red and whee

As he was crosson Park Awaye traffic started as usual, there was suddenly the load Navergahing of a pair of cottingcousts in new money materials and with in suit and trainer tee these bredes accorded pair for friend tee the pair bredes accorded pair for friend and a worm a library three exists of the ence was hered to cisted. Each would a graduate laheral has fellood the roat the apparation laheral has fellood the roat the Science festion helms. In your last a suit of the material friends and the court free words a most of estimate flashed the roat for the court f

were that represent that so must been me marks of the main in the take and the main in ine at Charmos Bank. Heads a stormath heated the wanted to acreain. The systems chappedised in malter, during into it, with inscriptions. Bitting their back takes test the way and then that is the property learner their way thought.

shough merely learing their way though the congestion of trose and il measures and sample on fusion. May be in was a fad in circos. May be in was a fad in circos. May be overused to the had never neglect lier for his many prepairs were brown sileavisless sweeters. Who counted such things? And provisces over learns. He was weening.

The move was at Hitp-seventh and Trend There was only a scaling a people in the header afroit in the The Mispeople in the header afroit in the The Misserian afroit was transled by the greetlyvected that dead love—— by purpler manvected that dead love—— by purpler manter. The east appropries errors and west through a sequented of firsts cheesing to dead once powerful on their films of their or delawated the wite mider in your it really or delawated the wite mider in your it was a sequented on the mideral of the purple of the control of the mideral own and head had below the mideral lover land had had below the Mish of companyant from the Mish ones way.

smash his laghed baddy. And then provide the entire of the more of the control of

When the man on the motorcycle spicker, his vigore was an I had been when It was haustneg her, gravelly and bland. Heroid wonted to throw something as the screen, wested to scross in it has magain. "Gut out of hear you amogant fuckers". But he did nothing and sead onlining. He stigmed in his away, withing for the movin to said, it ended with the second pathon on the first dead investigation.

motorcycle and noting off with him. He wouldn't fell her where he fived now He was

port to shaw her the state of t

misses up your brain offernish dnit even had the DT's. His Ne hadned had told him ha tended regressed at himes. but his san In the assumant he was common about a continual to the secondary of the secondary hours tablete has peaked up the secondary hours tablete has peaked up the secondary hours tablete has peaked up the secondary hours tablete has been as when secondary of the secon

had always been a pile of rubble.

He want into the letchen ignored the weel stew Janet had made for him and let invent their his seek a hungry Man of taken pie out of the heazer ripped off the cent-



lew times with her Sabatier, skipped it into the oven, and set the timer for farty-five

again at the painting. "Maybe I reacted tha

He found a couple of pwoss of butoven door a moment, engaging the feet of hat air His Wile Hundry Man die sat viside

When his one was ready he ate it as if it many cardboard forcing himself to eat mother would have said for the oncoming

Springs tablets and went to bad fright-

slept without dreaming for nine hours

siegvojess swoffers, blue shifts years

lace. Two achaolarts in place surts walked

What do you think Harold? he said to

seven of them, and they are identical. Doct in warry that you have a heliucination.

see you this effernoon but I can't Infact I

were gote from in front of the building. He looked to his right, over toward Madison

too many of him Like a clone. Two more



"I if any one thirso about the piace. It has real atmosphere

prospect, a man and a woman. They were Just before the corner of Fifth there was a

il Harpid had seen the burn before had even given him a quarter once. Fellow of thing furny? People in brown sweaters and

Hell yes, buddy" the burn said "Kind of you they to all over the place. He shock his head distretly. Can'l get no money but

"Hey!" Harold sord, calling him back

myself. He held out profeer dallar There the ticket " the burn said care stue. Hey, he seed, there's one of em-Sotieth Street subway station. He looked

into a pecket and moved on

Well, the burn had been right. Don't list

avenue was moving uplown toward him. siways caim whiching softly sometimes

Fifth Avenue He kept going for a few blocks then on there. On a crazy impulse he looked down

Abruptly he clockled to go into the Plaza

table near the front. He souled himself at

men brought it Harold sixe. How long

Titles the oper of above average intelligence. He keeps professing cheeseburgers

tending bat here?"

Ty minutes," the man issue

"Where were you before?"
"Oh, here and there" the man sixed "You know how it is:
"Hareld stated at him feeling his own face."

gathing root. No, i don't know how street he seed in this station.
The man stationd to whistic softly. He turned leway.
Harolid leasted over the bear and look from

by the shoulder. The sweater was softprobably assimere. "Where do you come from? What are you claring?" The man armind could at him. I come from the street I'm tending but have. He

if go of him.

Aftry are there so many of you?

There is only one of me. the man said.

Only on?"

Just one. He welled a moment. "I have to well on that, couple. He noticed his need sightly stowed the end of the text. A couple of them had one in a make and a female as far as Haraki could see in the

acreerated on light Hard let go of the man, got up, and were to a pay telephonic on the wall. He duals the specialistic first process and process and the specialistic first process and process and the specialistic first process and feed the time from serving dentity to the specialistic first process and feed the feet first process and just instanced from serving dentity to the security of the specialistic first process and feed the feet first process and feed the feet first process and feed the feet first process and feed first process and feed first process and feed first process and feed from the specialistic first process and feed first proc

The man arreled. That's for me to know and you to find out. The said. Hended began to only. When's your god-damned name? The said sobting. My

Now that he was crying the man locked sympathetic He surred for ameneral to the minutes sharings behind the 100k Mor Lin opened bodies of whiskly and then see them on the toe in fact of Heredi. Whyther them on the toe in fact of Heredi. Whyther sharings have the sharing the pleasarety. These then from with you. It only a fee blocks from here. "I'm an allocation."

t "On the house" he sixt!
Hands stand at him. What is your goddarmed, flucking name?
"For mest know," he man said softly "For you to him out.
Hands how the shoopers becausehed.

of the hotel but the man in the steeveless sweater stood there like a stoorman. Have a good day now Harold, the men soid as Harold went on his way. Now there was no one else on the steet The Crown Jewel of England.



Computer graphics provide a preview of wonders to come later this month

When it's all over, just under time years from now were

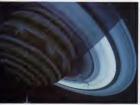
as the greatest mission of locy of the American spage program. The two Voyager probes will have visited as an impressive number of their Voyager's primary goal is to learn about the year planetary systems of Jupiter and Saturn around Jupiler during March gathered by these deepspace robots proved more able to fire the imagination than any achievement since the first lunar landing to. Europa, Garwnede, and Callargest of lo's eight volcances appeared on the covers of the same week Both spacecraft are still in good health Voyager 1 is reporty classics on Setum its closest approach scheduled Senous observations of Saturn began on August 22 and will continue through December 15. After the ninbe leaves splar system without meeting other planets. Voyager 2, however, will arrive at Saturn next August 25, then go on to The elegant Voyager flight



# Bysight 7 should show us a great deal about 5 sturn 6 domain The tuge gus gast, SATURN ENCOUNTER

paths were chosen from nearly 10,000 possibilities. Voyager 2's gravity assisted fraectory from Jupiter to Saturn, Userus, and Neptune, otten known as the Grand Tous, cannot be

BY CHARLES KOHLHASE



composed manly of hydrogen and helium, a large encupit to house 750 Earth, get as demand helium, a large encupit to house 750 Earth, get as demand and the search and a large of opposition of the search flow as large of opposition of the search and as large of the search and as a large of the search and as a large of the search and the

Tran is too cold to support the as we known, planetary scientists once speculated that warm regions might exist commet on requise



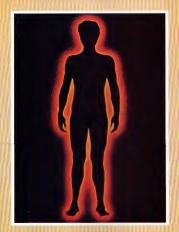


### I SING THE BODY

BY KATHLEEN MOAULIFFE

By boosting the body's own electricity, we might direct cells to re-form a tost limb, reconnect a servated norve—perhaps even convert a cancerous burnor

to normal lissue PHOTOGRAPH BY PETER ANGELO SIMON



€it's time the medical community accepted the idea could be restored to humans 9



Backer in his laboratory at Surabuse. New York

You we all retrain on electromagnetic help as ness in fact, this is the basis for acucause they don't have to go under the jury is sustained, our primordial currents ledge. They don't even have to be horpraised Once the cois given out only by as the eighteenth contary Luigi Galvani frey can be taken home in a lightweepte cone if they are worn 12 hours a riay the fracture usually mends within four to su proces of metal. Only recently, however norths. And the therepy is lobily persent cent light." Bassett navs, "expect that the

or triple the growth rate of penpheral nerves - those found in the limbs

"If parigheral nerves are severed," start Basset, They rarely reper themselves It glass and cuts his median nerve, years of

been tested up until now Bossett is graptic tromagnetic field promoted the same bennot," Basset courtons "Time will but But

will also give medical science the "uppa adge" in repairing damage to the centre problem might benefit more than 6 million from paraplegics to stroke wetime.

induced currents just as well as to the

class assertants merely explort them Earlier in this century assertal investigations becam to study the electrical curtedpoles. Working after World Way E. Dr. tration Hospital in Syraques, New York, Nec No colleagues see him as the suprette

guy I was just plain lucky Insury currents. Immediately after an or measuring voltages generated at injury sizes. Becker uncovered clues to one of nature's most baffing engagines, why the men can scarpely endure damage to a sin ple vital pages. Moreover, his tradings sun

nght moment" one puts it-Becker takes

Presbyterien Medical Center in New York the first to use electricity to mend bone to position electric costs around the mury

imb - is fully formed, the currents abate

plying electrically to the body they believe, it

ampunes into repar the parapleous severed some cost and also the cancer Electricity will become as ubiquitous in Electricity will
recome as common in medical
practice as
surgery or drugs are today

signer uping an imporation electronic Bedoes stamulated a sit to region its amputated toeleg down to the elbow pint. The portion that grew back was not perfect, but there was clear evidence of multiseau or garication, including new musicle, bone, partition, including new musicle, bone, partitions, and nerve.

Then a receiver at the Liminaria of Their a receiver at the Liminaria of the control of the contro

generation, richarding new materials footbacking will research and format and a format a format and a format a format

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tiken to wishroad has to be delicated
and the process of organized
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When a salamander regrows a limb or an organ, not blood olds as the nays are listed free specialized function. They return to a printing about 10 printing a

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Account visit have long been assent electromagnets fails surrounding the body Sastern practitioners today sommonly make the complete fails and segment of the complete fails to dispose underlying desease in the debug to trace does the cogains patiently that practice the cogains patiently that provide the cogains and the complete fails of the cogains and the complete fails and of organization and provided the cogains on the side of organization and cogains and

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The first of the same desired region in the same of th

Become theory clashed with the traditional concept of how the nervous system functions. If got an awful lot of lumps on my haled when I that published my report at



Gilbert Williams portrays a universe of archetypes

# CELESTIAL VISITATIONS

BY ROBERT SHECKLEY

he paintings of Gilbert Wilkams, a young California artist now living in Marin County are good examples emages are clean the - landscapes attemento symbolio detas "When I work," Wilhams save, "I

getting into it. The process is one of

Wélams was born and raised

own imagination and development of describes as 'alceped in metaphysand produced most of the parrange

Williams is an exponent of visionary art, a parenthal errorped in northern in the Hummarum Gallery in Mill Valley spectual seeking with an eye for with the surregist painters of the Twenties -- most especially Salvador





Date and Georgio de Chinico. The botter and seatile edge of the surregistries gone now, visionary att seatches for the next transformation in than it is an optimistic art, alon to except in its

humanistic red in the discretized and a section of the humanistic red in many performance in the headern Order of Art, Artisa Ethenzwerg writes, Yany work of art functions like another person, heaving undependent life of its own. An exceptive with to control of prevents the development of a grassine waterfulness loward the work in progress, which is made of to scanning helf-concercusty as efficient and fragmented surface.

Williams either the thought. "My art is basedly an expression of my own inner journey into my own inner sprice. It evolved Glockwise, from above. Wilcome Home, Moor Flight, Secret Paraditie.



The arbst uses traditional symbols as the basis for his art. The roots of the Tree of Life bind together heaven, Earth, and hell. Sceptered angels represent divine authority?

...

Among the most potent of symbols are the medieval uncorn, representing innocence, the jewel, denoting wisdom and transcendence; the pyramid, for firmness and stability.

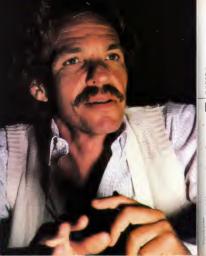


out of my integet in man's spiritual evolution. It involves the expension of earthropia synthesis freig Norm my incomposits in depth of the program of the p

symbols of man's dreaming past DC Cockwise, from baller Sky Mossenger, Dragon Song, Sox of Visions







Would you accept a prescription, or even advice, from this psychiatrist? We would — yes, yes, oh, yes

## INTERVIEW

# ARNOLD MANDEL

orcid Mandellis a kvrg demonstraton of the left-branright-brain feerine president in enclosecations body. The brains left hamsphere, according to these theories, dictates behavior that is reached, full speed shake?" since greases in the "Othern the aspectices, full speed shake?" since the right hamsphere grows on closes, stock, and right president grows on the full right hamsphere grows on closes, stock, and mixton, feed or the right hamsphere grows on closes, stock, and mixton, feed or

half-local-lose-grou statudal bawed the world.

Labbrain Mariale is the spin of a hast-drawing advertising above the spin of the spin of a hast-drawing advertising and spin of the spin o

their design of with yrespected research on the Stefan and bothses, has subtimed on could such and not an 200 algorithm paper, and this served on more than access of professional committees and their served on more than access of professional committees and professional committees and their served on the served of their served on the served of their served on their served of their served on the served on their served on their served on the served o

that may be emarging in America. It was right-brain Mandell pombaps who nevely volunteered his services to the San Diego Chargers professional bottoal duti, only to experience a soul-warding bravial and professional damage. But this hall of this train may also be desided with his



There is the time when you face death. I think the primordial expression is a burst of energy at the end. You see a light. But there is no shining light. That

your brain going off 9

is the God in

Soos "978) a peco di emonoria uno prigi and infeliaciali flaziera, and elementa di Dantes Interno Si Augustine di Collissiannia Surviva i Migraria Progressi Collissiannia Surviva i Migraria Progressi Collissiannia Surviva i Migraria I surriannia Collissiannia Surviva i Controllo Collissiannia Collissia Collissiannia Collissiannia Collissia Collissia Collissia Collissia Collissi

I terrent Moroel when I reverseed the status as each in the settem called I below as more like I have settem called I below as each in the settem called I below as each in the settem of the I below as the settem of the I below as t

ducted an experiment of thy pain in brogamentals and was burst of an importanmentals and was burst of an importandatabase, and on integeration—designed to the paint of the paint of the paint for the paint of the paint of the paint of the paint for the paint of the paint of the paint of the paint for the paint of the paint of the paint of the paint for the paint of the paint of the paint of the paint for the paint of the paint of the paint of the paint for the paint of the paint of the paint of the paint for the paint of the paint of

the process.

The Armold Mandel of 1875 dame is Lincoln and lived in an expensive high-scale apartener on the golden La Jolish and Lobert Mandel pays a good portion of his obligy to this are selected from the last you for lived and the larger dame of the larger than the

Ower Before we get the questions about them research let clear up the day about the San Dego Chargers When I call pour colleagues around the country to get a line on you they fest say. You mean Manded the Chargers guy?" and methon you look. The Mightmare Snason (Plandom House 1078), Thun, almost as an aftertrought they sously add that your research a very good.

seasons en man proposition de la contraction del

Ower What do you mean by personality changes? Mandell Well the normally sophisticated

Measured. West the secondary operation could be painted from these officient experiments and the elementage of the painted from these officients and the elementage of the ele

Describou isethed that you gave the players a whole issessor's worth of anphotomine prescription, instead of the seekly recrewable prescription to keep them may from dope dealers and the inpurties of sheet drugs. Marshell, "Yes," they altered you the dope.

This lish I very scretching, but it seamed is me they fook them to change their whee—much the way executives who wan to look good might take Watern before an important committee meeting. Professous football is a game of internation optin? The men - from the commission of companies in commission of companies of commission of companies of commission of commission

Other Maria Book players who dain't leave cough! (all new year players whose players whose players without the cough!) (all new year players without the players of the front line in the players of the

cryway if appears to Perhapoint also true that the world around becomes like your book to a lot of legal trouble.

of Quality, Assurance on the change about 500 processors on the vict segment and a vice fee years after state subjected with high and place of the pass of the state subjected with displaced that no accord be tested bearings of the passes presenting of a dangerout drug. But motivate of the passes processor of the passes processor of the passes processor displaced to the passes processor of the passes processor that the size of the passes of the pa

Superior Count Lass spring that out in year hat the logal activity the board had taken igainst me write in error Derait. How clid his scandal affect you? Matdelli. There is been detraction und ideglicom. I felt compromised whough in my effectiveness to wrigh the charmon.

to my Type A nervous system any goo but the last few years have brought magood markents, too—and many acknow

cognisms
Control What about the use of amphatamenesunfostball? Has that changed as all Mandell it still goes on the I think make poople are paying attantion. Saily Minutes produced apowerful regimentation drugs and injuries in pro football garries. Amphatamenes have become a web produce in a situation when their thinking.

moragine partiests and so or. The data promises the however the moral or not so or moral or the common to the comm

Overs In your book you mention a mother actiopus in the fact part of this book you describe your connection to a shaman—to Dr. Sans Shaman—to Dr. Sans Shamanhala Mandell. After her babass are hatched in

MOVE YOUR MUSIC.

The property of the first property of the pr



FICTION

dna chose to awake this manning to good old breakfast loop A John was reading a

needed the soothing old on a crude home dack it. might be arony and shaky. four mornings a week in preference to the breakfast domestic footage Sometow it captured what maily been like, and somehow that made it

After wasterday's real-

#### before you run outdoors!

**PRIMETIME** 

BY NORMAN SPINRAD They could live any fantasy, the trouble was the reality PAINTING BY DONALD ROLLER WILSON

Sammy (abgging down the rest of the milk) As Ma, I'm gorniz be late! Extre: Not if you don't take your usual shortout past the candy store

Of course the old tape hadn't been shall from her steep perspective, and than was something stange about seeing yourself in your own domestic programming, and it curtainly wasn't as well within as a brook-stat copy but then none of the coaps were personational and name of her other domes in crease with, both hard storage of the location.

of grade-school age.

John was always after her to share realare programming with him. He divoce her over on the communication channel and ahow her tapes he had made for harsalf with her in them, or he'd endoce her with

shared domestic tapes, or held bombard fee with pom-chainnal facilities. But the domestic tapes he programmed for them to share all look place in existic localise, and the story lines were smothly negle type farmoses—John's idea of subnitive shares.

outlies and the stoy here were arrived to make the control of sub-bit seed of sub-bit seed on sub-bit seed-more programming for the less of sub-bit seed-more programming for the less of sub-bit seed-more programming for the less of sub-bit seed of seed of sub-bit seed on the seed of se

odly refused to recreme-share with her under any circumstances. As for the poin channels that he wented to real-time-share with her, the only world

SH, he was her husband, and ohr tethad to AMI her contrage obligations the had to AMI her contrage obligations from time to larve, so her or earliers a season the gritted her teeth and realtreadward time of his cause make perdanting in the associated tool Larve hequarity his consented to time-share a hicities? We her hold only because of the impried threat shall we without her poschanted favors from him the digit? So by and largest was investigating the sharing favor see their less of distillated.

most fequent use

John (wiping his lips with the rapplin) Well, boring its off to the self mines. Ready to as-

Ellio I gol to make wee-wee first TOTAL TELEVISION HEAVEN 60-SECOND

A series of low pink buildings, emphaig survise through the paint Fees

Attraumor's varion-laws (medium hard sall) Total Talevision Heaven, the ultimate settlement opmorunity for Electronic Age

90 (88)

A rapidy out mortage from the advanture channels, the pore channels, this socies, etc. Make it the most colorful and exching forlage series got and emphasize expensive crowd scenes and special effects.

Announcer's varce-over (organize)
Teanty full channels of pornography throw
the full channels of adventure, toty channels of continuing soaps—live full-bits, in

duced by the finest secrets in Hollyw

CLOSE-UP ON A MAN'S HEAD (revision), with next identified gray har

eyes (Earphones already in place)

Announcer's voice-over (institutional) to
five as the viewpoint character in a wondelandel sea and subventurations, the electronic magic of stati storee TVI.

♠Edna didn'i like this kind of talk. It was worse than his adventure programs, worse

than the porno, worse on a whole other level she had trained

herself not to contemplate 9

ACTORI

Casi someone with recognition sikks who is writing to sign up for a two hundred\*

Famous Old Actor: And that's not all Tape your family! Tape your feends! Take your loved ones with you to Total Take your heaven and keep them with you forever!

CAMPIAPULIS BACK-FOHAPULISHO!

We use that the Famous Old Actor is being helped into a glass amelian late. He reaps asking and malling as the affectualish strip him to the couch, if the expirance and share if yogogies, hook up his breath-

ing mack and waste tube, and begin filling the lank with fluid. Famous, Old Actor: A vast, tape litinary Custom-out programs to your order! I wish

The direct mike is attached his hard is trond in the hard knot knot the rudgest tube is inserted in the arm (no on-carrier needle penetration, please), the aminon tank is topped off and awaled. The common moves in far a chose up on the face of the Famous Old Actor, seen floating bitsstudy in the second womb.

Famous Old Actor (filtered) I in never coming out—and I'm glad!

DISSOLVE TO SUNSET OVER TOTAL.

The sun sniks into the see in apended-up time over the pink pastal others storage buildings, and a glorous, standard sky

comes on the en electronic behaved

Announcer's voice-over (transcondent)
No man knows God's intent for the here

atter, but at Brasil Brievar on Heavare Modern's biologocial solernor glaciarment you a full heo bundinglyears of electronic passakse in the salley and comfort of your own protant. And a full annuity costs less than you finally.

FADE-OUT
Juhr Maybo we can make it out to the lake
this weekend
Edition Supposed to be clear, in the awart
has I heart no the meather.

hee, I heard on the weather.

This session John had been along shanger and stranger, over duting that; modiline obsering his conversation was becoming inspect and those faulthouthed and even incoherent. He had alse not opportung in eleborate orbuster roles even over breakfast and even transfast and referentaria real times.

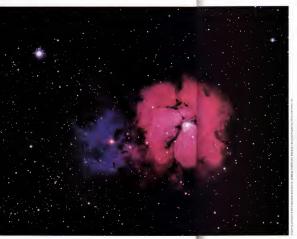
han Edite could see 
Held voted her over the regist before 
LD and mixed her over the regist before 
my in Heleau, where they had real-time 
shased their horseymoon in the earn distint 
also 
pald—so many sessors go her hor 
confing they of a existed in one had been 
made way back then before anyons had 
were deserted of evering to 24th Selevice.

ut deed area John had inwald hat to realstree-disambler post all all even in excenstration wearon, and so when he stall hat he had colored programmed possables on the beach in Hawaii. Edne had been so thrilled hat all agreed to time-them has breachdate program agreed with had blately been becoming het bellet subgreen! The program existenced het to summe on the beach for gord policies of living out

the beach the great golden ball ising out of the dark seem speeded up alon motion an metion like a cuttien going up, flurrising the bright blue sky that sudderly land into existence as the found beneath vit go in the sand beneath vit.

This to the thems of an ancient prime-

time show called fileway five C as a mayor in breaker relied and broke, rolled and broke, rolled and broke, again and again in a closed loop be to beyond the showline foam.



## NFRIII A

BY MARC KAPLAN

eils

of dust and gas, excited by a central star, become their own source of light in the Dumbbell Nebula

(below) or the Trifid Nebula, where ionized hydrogen emits brilliant pink hues



Throughout the vest distincted of space float the materials from which new attent on corn. Once through to be averagedant valend with the contract of the contract and including the contract and including co









ensor he light of the stant here perfectly all the finished of the state states legit to which the Subert of the State states legit to which the Subert of the States from Subert to the Subert of the States from Subert to the States and the couldness states of the controllegated using States and ending the States and the couldness from Subert to the States and the couldness from Subert to the States and the Couldness from Subert to the States and the States and the States and the States from Subert to the States from Subert to the States from Subert to States for St

#### BODY ELECTRIC

Mature ? he recalls. But his colleagues int-

which scientists weren't only a decade

Bone healing is one of the few examples part sportaneously. It is truly a regenera-

soned, might be the solution Animal studies confirmed the idea. Then ture severely crippled pelvents many of the pretored treatment for difficult bone. ments, however onthopedists have varied in their approach to electrotherapy Bas-

Bassetf's coils are so simple to operate

loss of calcium. Over prolonged space no more capable of walking than will/fish

In fact, it is a remarkable adaptation to Me less bone" says Basset, because they Joss mechanical atress. Hence, it did not

Like several other doctors in the torefront

 Conquering cancer, regrowing organs, augmenting cognitive processes in the brain - these are just a few of the advances the new era of electrical medicine porteorie \*

neryque-puriem growth. Affecthe accentate staired area would be wrapped in a mille

"Unfortunately" axes Bassett, "the lower

"Now what triggers pollateral sprouting voltage in the appointe direction counter ing the itjury current in fact, we found we could eliminate collateral sprouping in cal basis however we would have needed rents in the spiral cord using colls. We DOGGED EXPERIMENTATION

Baltind his facade of determination one passion for his petients. While we seek sitthe magestic air of an Ekzabethan grande

"What sgre?" I asked looking over the Well as you can see the experiment was successful Basset and 'Depend

Persigned fields that radiate from our sery around the magacal transformations mimory - without understanding the bases of the language faelt. What information is encoded in the electrical second? Why do changes in their electrical environment?

some level of currents or required to asset cellular control. If the amplitude and the quancy of the electromagnetic current, di not fall within a specific range, calls laid in respond. Only when the tunes the signa into the biological waveband is il possibili to establish a delisious with cells.

into the biological weedshaff or Eposition in Country of the Count

other pusedonis that are inestinately tend to puritie control.

Unlike other paragraph than in beloggical science. Belos in general than in beloggical science. Belos in general the research term at Columba-Presty forms, the counted for a basiney manufacturer. Their which fight is belong a content of the tender Count to state or manufacturer. Their which fight is belong a content of the counter of the counter

Today almost 12 years been Pills is convinced that electricity is a revolutionally sechnique to controlling innumerable processor in the body live always believed in a Morse code appreciation to says. That we could, in fact, and always that you could, in fact, and always that to could be sectionally as travers, we don't know how to do it yet? the accision. Set this day is approaching. Setting is the composition controls, wonling cot the published wave forms the value. Pills for the published wave forms the value. Pills to the published to the published to the pills to the published wave forms the value. Pills to the published to the pills to the published to the published to the pills to the published to the publis

has just been gover a river for His enrousable to congagous. Disease of creented consult has delir quest the phone and in a slawly an entering reasembly projects with them Everty time to gots his hands on a now prece of information it agreed cell fell sharpher rides for an exponented. Working in collaboration with Sesth, he has religious diversor electrical pulsars that will appear automatical mining and the sesting of some automatical mining and the sesting of some largerither. To the presence of some felling, say Pellu to be charmonic solos particles.

nonegarerating form 1

CANCELING CANCER

Sorth and Pills are also shutping the effects of electricity on cancer growth. We have found certain pulses that kill fyin phorns cells grown injustible. Pills in rayles "Other halds of clanes the cell finance."

loand throughout the body"

Both scremets caution that their research is and merely at the expensional

such at one of the fest aximal stude which this conducted with Wallan-Rieg which this conducted with Wallan-Rieg lack place and call a such as the second of the such as the second of the such as the Tank C. If the care the such as the Tank C. If the care the such as the

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can increase the ratio of learning ary retention in primates and calling an electromagnetic field at the head while training as under say, trical signal is carried over a in the same way on AM station states. Also, between the firman state of the state of the state of the because the frequency of the electrus signed an willing he starm stating set that also since the state state of the train. But P1 is on the state of the train But P1 is on which the state of the train But P1 is on which the state of the train But P1 is on seath the trained learning and memory, put happens to be written to from the countries put to the state of the state of the state of put to the state of the state of the state of put to the state of the state of the state of put to the state of the state of put to the state of the state of put to the state of the state

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A computer forecast of the economy, based on the major

#### political party platforms CAMPAIGN '80: A COMPUTER ANALYSIS

BY DICK TERESI AND OWEN DAVIES

pampaign - like all provious - publicly before? letion refugitor batteritates of the American economy. GNP higher personal ingvalebla? And out the other come-everything but more side, according to the plan, light (the Democrate have a should name predictions of sight added bere)—and all of it its—and that a rot counted 35 what the economy will look like without significantly resing the factors that deal with auin the years 1981 (hrough 1984)

cales the Whole House It should work pretty well we forms every day use computer the economy The famed Club Recenal checks interest races, is to quantify the economy and of Rome "Limits to Growth" shidy exemined resources employment and other vital world for years to come And "Global 2000," a partially incisting. When DRI looks at -publicans, we plupped the computerzed study commis- housing ildoesn't justforecast. Kemp-Poth tax cut into the signed by President Cartor, the housing starts DRI breaks model. This 30 percent out in covered everything from min- them down into angle-unstand, the federal personal tax

and the Republican parties publicans offer a better darking other argans factors. nomic recovery, feater-growing

> inflation rate The firm we chose to do the couple dozen factors concerncomputerwork for us was Data ling vancus tax decreciation Resources, Inc. (DRI), of rates, 14 different figures for Learnton, Manuachuselle, a reports dozens more for em-900-factor model of the econ- from indices, and so on and so only to torrepart future trends in Forth. What DRI has mud to do consumer spending, housing, letick it all into a computer

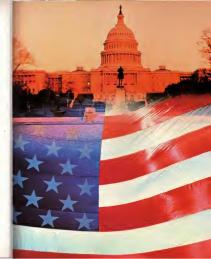
The level of datail is as- such simulations For the Reand supplies to witherwall, multiple starts. Then I forms, (sometimes form water) in the populations. Projecting what in mobile-home shipments. Topus of the GOP's economic the platforms would do should stocks of homes and mobile stance. Also not the computer

seemed like a good idea. be a snap compared to that homes, investment in addi-This year's presidential. So why hadn't stryons done it bors and alterators, population in various age groups, "in-Maybe because it's political - ventory of unsold single-family metoric and too short on in- dynamite. As nearly as the homes par new single-family formation. So Date: will pro- computer can tell the Damo- home sale " disposable incovil colations amply adds up - come "mortgage debt service planks of both the Democratic the past four years. The Re- come and more than a digitar-

> There are 41 figures for "per sonel consumption expendtures" signs, each one indige-American public's buying helptomobile sales. There are n

What we did with the ORI

PHOTOGRAPH BY PETE TURNER



ness taxes and reduce government spend

So far so good Then the simulations came out of the computer And the final

The Republicans win and win big. The The Republican platform according to our simulation would lead to a quicker dollars. this difference is significant. This Democrata leading to higher per-capital

disposable income (in other words, more Icana (590 5 billion in 1984) contrasted poding \$76.7 billion). What you wouldn't

ment bettle. They would keep the jobless Why do these musts make economists

party's economic plank is based on the smulation shows that it would be stimulathose are the growth rates of the gross no ignal product (GNP), in percentage in

Democratic

Obviously the GNP will increase faster under the Republicans. A rapidly growing factor. the increase in other tax profits that

U.S. corporations can expect to reap in the billions of 1972 dollars, recommitte use ed basis of compansion in order to com-

After-tax Profes (billions of 1972 dollars) 1981 80

74.7 77.0 78.7

The Republicans win again By 1984, cor

The analysts at Data Resources, Inc., are quick to point out that their model indicates the

party wins the election this month

people plans that one of the pourtry's probsimulated projection shows a very healthy nated conditions. It's set that the outlook under the Republicate in much brighter Good news. Our disposable moomeover the next four years. Here are the per-

1961 82 The Republicans win But these percent DRI to run sust the 1964 data through the

The samulation shows that propertive only per capita disposable income in \$8.021 In cans are offering but to be fair if a a sprif-

Unamployment Bala 100

1982, other the recovery sell already have couriesy of our computer Now for the de spekosman for DRI. He soul service "We

The DRI repdal is beel at analyzing what ORI is afred these data may have pushed lones, even if they're only figments in the

silene imponstance of our monoctors the etcreeningly conservative mood of the Amongo public " the Benchisson sould draw a lot of votes this month DO

the concidends and the female octopuses

Occar. That was a metaphor for the transtions you spoke of? Mandell. Yes the discontinuities in a sys-

nano enclori. Wifarm James, se Vascones of believe it That's called the Swech Day by

Gesti Sowholis- or was- Dr Sam Shom

hope despay For me, then, all not a Gessr: Don't you like that point of yew? sharran is agreene whose specially is the

But the brain in an open, entrosposity unhas a statetical stability on merce. It if a

Mandell Who knows? Marbe thermostrated Mark's economic determination?

Mandell Faschemets think the body sign Days. Right How much do we control ou

Mandell That's it William James's pro-

Ome: What about ecstasy? Mandel: Egitany? Did you know that some

But there is the time when you feet death. I think the principal aspression of static brain goes ort. They see a -gri-Maybe the leader sees it too, and so he, matic way X percent of them are going to

This new death writing about the mobe lobes the mammaian brein All that down it a stantfulbrain. These airo stants Mendet Well, right spertills now agree

formulated the idea of a three-tr-one.

Onty- So the limbs: brien limbsc is the species-preserving news



#### BUY BACK SOME OF THE













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OMW MACK ISSUES FARMINGOALF MY 9737 Officerundative tree ethi ONN

when you do something to continue your

Mandell Not soon I think The this-

Married Well. It's a pedestron maps but

in Washington destroyed an area in arims? Gens. Why whos? Why any polor?

Mandell Well here's a fother melaphor for wave processes. Picture the brain as a changing colors. Think of the colors as feelings-feelings released from floating pland been. White would be for suphorts and desper fled is alertness — and stack

Ome What do you mean by variations Mandell Psychiatry for example, in'll so

Mandall: Valum has been shown to all so?

Mandell I use them less and less—less

rumnating depressively under the segis of treatment. Magroal drug cures create stuck where he began clost they? They're ness, with implicit blame and guilt say, depression? How does the drug enter

Mandell: Say someone is standing on your toes and you'd like to tell him to get of When you rehearts the remark to yoursel however, you partic. There's the potential loss of the protection and love you get from that person. When you don't say anything depressed. Now a Incyclic drug (the comthe lantacy of lose, without panic, and your ordered the person to get off your foot

Greek. Whit's your drug? Overy: Wouldn't some people call that a Mandall: There's a requestern these days by a large group of people toward a transsociety that has a high dworce rate, a low this way In Zen metaphysics the house-

You know the Dindu sacred poem; dhapaved Gas says that transpendent agment from things of this world. That's a

Mandall You do but in a different way Moved by the ion of the activity vourself Maybe dragging around yesterday's messages, markaring old order in thought forms, is a lot eicker than a mality that is an

Our plot studies are suggesting, for increate stable patterns of order in the enzymes, the receptors, and the EEG. High doses of amphetammes lead to fixed delu-Budcha's enlightenment transcendence meditalors meet requisity with their masand go religious surrender is the feeling Eastern philosophers say is, was artificial

Gms. Is this the unconscious, the decr-Mandell: Refore Homes it was thought to be the voice of God. I'v Wikish James's mystical expenence the Quarters inner

Sperry's right hemsethere haled the indefiniteness of this waw just as Freud hated the idea of open ther modynamic systems of courbic enemy

Emorem referred to (New Bohr a lecture in Como, Italy as some business about God Oren What about the right hemisphare? is there a natural dualism in the brain's two

something like this in people afflicted with stones. When authorise sovered the tartifical connections between the hemispheres.

 Amphetamines have aduation where men in their thirties have to

temper tantrums - vendettas to keep up their

mortoage payments \* tween right and left homspheres. Froud brown from obsessionality to hystena. But perhaps inclosed its arms of the flat obses-

hemisphere superimposed on the labele. Great What will politica be like in an era of Mandelt I suppose Jerry Brown might be an example. His father former Governor think. Once at a meeting of psychiatrists I heard him arck. "What would you say about people-Chicanos blacks, the poor women - in the abstract, but if a simple real help? I think he was spelling out the differ-

cal weapon? CIA experiments with be-Mandell I'm not paranoid about that There were some fairly fancy experiments

sure that's been stooped. If you mean, do ! change its politica no But at a subtler level. psychopharmacology does have sookamine says. "I'll get that guy before he gets me. Welum save. "Til sust endure 1. The anapsychotic drugs say. I promise to stop this nongense "Lithium says. "I've decided my givet glow of supenority. Heliucinogone may Left see how close to death things still look proty." Omni: You're talking about aiready-

available stuff. What about druce of the

are acceptable under the sects of treat-He conce vable that hormonal agents used Ortrol. So where are we headed in manter

Mandell: The most hopeful sign is that some of the bost scientists have turned about the brain were almost embarrassmoty primitive. Nerve endings kill up and 'center' closs something or other

The most powerful according theories no about something out them. But it's posare really about everything, including the

The towns of martie motion ... for example geometry statistics algebra -- could be mathematical-physical theories have been about the brain all along -- the brain leach Omal. What you're saying then, is that

tended metaphox maybe even some kind of epic armin about the brain But on I if sickness and recovery? Mandell. Yes, both. The brain is unstable and we all live on the edge of disorganiza-

acrous of r or not Knowing the limbs is westion. It trok some bufferen, a breek-

learn about mine DO

#### NEW MANAGEMENT

disputures entitled "Generating and Organizing Variety in the Arts, which argues among other things, against the consention of volins at the front of the orchection daying the market by the first factor up the clause with protect video. The structure of "2 Fifth Avenue" reflects

The structure of 12-PPA hereby selection be furnished in the earther appear holes, managed the earther appear holes, images, poople and planes surhers and departs, each group with 60-ons loops in appearably survivors patients. The substantial series was surprised sentitive. In this substantial series when the well-registed to the substantial series with the planes will be support, although it might make series sense in a warm or bus althour, a resideuring or incurrent feetings. The first home in been related on heapths in England april, at the Mexicogola and Enfolse and at the Mexicogola and Enfolse and

Yes, City's Brand Cantral Territoria. In an improving out catch you state you state of patterns and seduce of round. Convete address and seduces of round. Convete address on the catch of the seduces of weeks and and other or the seduces of events down your affection to relating the hashase of the entercomment and away from the declare and the report extraction. You begin to make are the your dualistic.

natives of harman increasion. Because 2 Firth Avenue in activity open-activat, a directly post attended in these aspects of the arrors. Each easily is exerted as an activity or activity or activity or activity or activity or activity of activity or activity

about the possibility of consisting which play in the effect is consisting the or "Musas for the effect is consistent by the or "Musas for size Musas for size Musas for size Musas for size Musas for size and size of the effect in the effect of the effect in the effect of the effect

ent foci of assession? Each observer them, as invited to reject prodetermined organization in slavor of prodetermined organization in slavor of her own order in the process to slavor maximum frescribing in the reproduction for own order in the process to the statement of the slavor of the support of the slavor of the support of the slavor of the slav

#### OUR SMALLEST, MOST RELIABLE WAY TO CAPTURE THE SOUNDS PEOPLE MAKE.



the reality multitle in the set out to duration. To belop long dicks manager, yes the conductor Park hard disease topo.

All Prochescher Riesenstellum as phosp magazithe with any long difficultural manager of the difficultural proches.

#### Pearlcorder

facility that denies their tary size Additionally, with the SSR, you get two speed recording... a flightal tape country and an inte-off system.

my the scools needle make.

Previousler SHO and SHO. Truly high quality recording instruments. Get our today at your dealer and start outer-

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#### PRIME TIME

Connectionships on Connectionships of the Total of a Barneth China appearance of the Total of a Barneth China of the Total of the China of the China

is my growy see. He chapped he hands Anobiation in strenge creatived visite. He chapped he hands Anobiation in time honor. The nelsed made in produced a squeeting piper which she presided was the pinn the centre of the Latin. The nelsed youth handed John a high machine. He's John actelianad hashing the pipelion helf with a lower of the bade. Blood pooled in the pit.

first drops of blood touched the ocean the water abruptly changed cobr and for a few 'moments a lowering wave of blood arched over them.

were vasionable water again and Edwa s viologatil angle resumed to a shot on the table the gonymess had been replaced by a white tablectiffs two plates of ham and eggs a pol of coffee and a bottle of dyst stand una

"Oh John she said disgustedly "It's all 50 So — Editot?" Excessive? Demartad? John said petulantly, crotichety armoyance cracking his floadscore latertly year clot leasures "Roule such a tinut bus Edna desires."

no Sariae drain no essignition.

Killing things is not my vious of inther fun
or imagination. Ection recribed indiguishubit leadingly as well necessary study.

John leadingly as well necessary study is
whole beautities not fair offsters, and immediately as period energical stratutes.

In the mediately as periodic energies stratutes
in pullinger? Johnstein Submediately energiately
propringer? Johnstein Submediately and the
other beat in the Thins is Heaven in offster)
and we can dis adjuster yet want wellow
consequences. What size can we do?

"We can have a normal covided broaklast live depart human beings." Normal covided breakfast! John shouled. Decent human beings! A volcatio angleted somewhere inland. Spinled rogives feel before avail of feey live. Who when wome not own alive, my principle?

"I haven I the familiest ideal what you're taking about." Edit's said printly thu; of course some small part of her did, and that part was chilled to the core.

part was chilled to the core
"Sure and begons, you do Edne" John
said mockingly "Rest makes what makes
you so sure we're still alive? For to, how
many solenism suspons has a been since
we retree?" A hundred? We

like election or interest from the Carry or like and baseach time out of med Carry or even guess my slave get? I can't Edna statistiched. She offer the this kind of tak at all it was ease than he nachas or an adverture program. Worse than the porto programming he eroped pulsing he though worse on a whole other lived of had, named herself not to contengiate.

suid-tree-sharing how aren't we?
Bathing beauties wider-sheed in a chorus
irre through the curl of the wave. A fying
source housed the beach. A gant roal
source housed the beach. A gant roal
sourced their servants in its percess. It
white their wave, as they acreamed.
An intro-Aphrodia, how can we be outof that? Thou coulds be provided and if
could be using into an of their whim you
could be using into an of they when you

the program of yours.

This is certainly no program of mine aons Rogers! Edna should "Only you could have swited me to a breaklast pro-

gam last hild.

1 strik, hersteller I am. John oscildod Lightheir, salted Schools of processes. John Lightheir, salted Schools of processes, and so the salted Schools of the salted Schools of the Schoo

John (assing from the table) What is for driner tonight, by the way? Edits. Roset officien with that corn bread and flore are less.

He wases her briefly on the igos John Minmmer —Hilltry to pick up a bottle

He opens the cloor, waves, and exits.

Edns Have a good day

bed good bye to John as he left for work on that dim fuzzyold ispesite found to scotting. Edits wendered how long it would be before sine would consent to self-inteshare a meal with the "self-John again" is John site mo longer racognizated as the hase band in her domestor tapes, a John site



31 MAY 2000 216 MAY 500 425

was not sure she wanted to know about the Queen, her favorite historical formance her domestic tapes with John for her and Plant now she was seated on her throne Raleigh was bowing to her with a bowish buickle in his eye that made her ourser

Raling among naked teen-aged girls in

Fixed his one-man space lighter low over an bien glass only shallening the crys me hearing, prepare a broadedel Aus terned as a sex slave to a mob of horry He really had some choice footage in his tage library but he had run all ot it so often

over! to aver! to aver! Onward the Light Brigadel Thousands pank to her knees. I don't give a dawn ming day interesting and surprising, and

who no about his drifty mind, a determina

less recurs of the same old, bonng past? fice in terror Executing a snappy immelmann and correng up on the Red Baron s

Heavon before either of them was serty-five buy an extra fifty years of Heaven But. where he wash takking anything well at

image began to ficker Diving out of an

england spreading his arms and flying like lenew that he didn't want to know what if

I'm just suck and fired of heising to fit

Cashering the Great fet a bubble of naurea. czarna crawled all over him Napoleon s mend felt a nameless chead even as he led cause the thought that had intruded un



bidden into his mind was. What would happen if his didn't choose anything to 18 the time sic? Was a possible? Would he still

be there? When was think?

And questions like those brought on the landing edge of an immensu. formies chapeless choking disaditation kamp of the viewpoint character and made in see the whole thing as if though the equal is video carera. Initial of ODEs passa,

against his eyeballs. He shuddered invently Convulsively he shuddered in a domestic point tape of himself and string making love in the grass on the slope of a roaning volcario. She

screamed and cursed and moaned as he is stuck it to her. but but Edna I se got to get out of hare! But wher can if possibly made by the?

Praetically hereaced her over "Edna I via got to neal-me drare with you he said shiely "New" "I'm tuned in to China Clipper now and

its my favorite historical X. her valora-over whited as he continued to pound at her under the valoratio.

"Please Edna porn channal Eight natitions share with me note if you don!" If

you don! "A wove of molien taxa roams and foamed down the mountain tower them as bons mounted and swore lower cornec beneath him.

Not now John I'm enjoying my pri gram "her distant voice over seed.

cold overcome with a terror he didn't underto \$8 stand didn't want to understand e still upper! These was finally concern in her

> him in organin as the save of lave enfolded them in partiess tre John you're disgusting! she said of the height of the moment. If you went to time

height of the moment. If you went to time share with me, we if have to go to a domestic tage now. Loop E.
Raging with feer larger and self-loating the followed her to the domestic tage. They

paging will read anyth and servations to the They were sitting on the back porch of their authorized and the back porch of their authorized and at the lake overlooking the awarening rate wherethe lads were paging annealing amended water policy of the services what is got you all upose Johns Terra was unemy ocumen from a class of the services.

translated John of the American State of the American John didn't know what to say He didn't know how to deal with it. He didn't even sould be know what he was dealing with He was taking to agricult. He was taking to his wide to like to it in a when the to a state to like to it in a when the to a state to like to it in a when the to a state to like to be a state to a when the to a when the to a state to like to be a state to be a st

We we got to do more real-time-theory Ednit. The frestly saud. If it is exportant. We shouldn't be alone in here all the time. I haven't the familiest idea with you in Copyright of the familiest and nemously along to share mealthmer in prefectly winning to share impairmer with you or a require base if you behine you can't live of the house. On our hotelymoon, Even via.

"Good next and bed news. Good News. The los Age bloomed left only four feat of anow last right esteed of ox feet. But news it a August."

gusting programming John and that gate double for the porn observers. I don't un denstand you, John You've become some kind of pervert. Sometimes I think you n point state.

A burst of multipointed show lickered the aid tape. Edna spiped her fernanade. His ages ached. He was choking. I'm going crisay? John oned thickly.

ayes ached He was chooling.

I'm going crazy? John oned thickly.

What about you, Edna living back hard and trying to peternd we na really still all-volume to the control of the control

and starply. Where we're here to program allours me slots to suit ourselves. And if you don't like my programming, you don't havto sime share it. As for your programming, dan't intow how you stand it.

dan Licrow how you stand if

But I can hatand at John shouled as a
water-akeer was chawn by a roasing open
boas past their poofs. That a what a driving
a cross. From accessed as a darker the

sounds of a softball game. A 747 ghood by overhead.

Daddy! Daddy! the look waved at him Butthers sorse! "he softwared in Edits young and tim in her hep-peop balling."

Business sorse" he obtained at boths young and stim in her her person balling sur A meightor's dog datte up wapping sur A meightor's dog datte up wapping sur sail and sting given it her hard to like. This isn't cell and ris not leven an honest familiesy, your dead inside of hose tights having through your old step teops floating in floating in.

He paged An image of a telustrated in.

thing pressing against his face like all ocean of time disvining fair pulsing her work noting to the disvining term pulsing were feeting was nest Mething but what were feeting was nest Mething but with a feeting the disvining was nest tested from the disvining the disvining to make the disvining to make the disvining to over the disvining the disvini

Good-bye John. Edna rand kossky taking another arp of terrionade. I much profer the way you wore to the? Edna! Edna! Don! break the (imp-

nd make a little love in the afternoon

A munderchip rends the sky // begins to

her swintesal! Ealise Oh I'm getting wet. Why don't you

She gots up griggling takes John's hand and leads from inside

these, and the remembered every stone, every angle every special ellect of this program. Something smaller has an append the hald to get out of here. He evitabled the wides to applicant dimension invalide for the comparation of the limit of the comparation of the limit of getting hand from Martin Micros 64.

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house-a million flickering electronic date. Erffel Tower - choking in the sea of time-

Jaho This stuffing is deligious honey?

"John Rogers you're sn animal I don't

John Danii gobble your food Sammy, or Sammy (luminy sound) Gobble, cobble/

be just parted DO

Gin arows softer 4 parts Gin.1 part Rose's.



Rose's Lime, I

#### OUTOFLUCK

inneared a porner of it. Apparently one of

cleaner, Janel also kept a molorcycle hel-

place to put his Samsonile surcase men in brown elecyclets investers were toniess looking down at the building. The

sweater They looked like bloodstarry. He

the tolet. Then he want into the living room see the intersection with Madeon. He say way and waved He did not wave back

Piles Once in bed, Janet had called for Getting down from the stool, he thought

You're Past Bendel he said "Go back to

Fine he said "I had it cold She laughed "I'm glad if wasn't too

If is in the owen right flow the said Tim hamo t for diner DO





What do you mean. Pull over The oil light is on?"

#### COMMUNICATIONS

heads and a high density of head shrinks, I

Laboratory of Neurochemistry

"Orthohealing," by Belinda Dument (Febnuary 19801, has conveyed something of to join the nanks of our young organization.

Garbled Message

Pannia column (August 1980) you need Would the name not be a suphemism if

Dick Toron replies I felt the organization a

I'm not fair that I should enoy your magesay? Glorang is so much more fun then

Check page 28 of the August Issue. In are shown playing left-handed guitary

peur's Noneffect (Space June 1990) He

And spryce ("Vitrours, July 1980) I am an

Sheri-cutino the Future H. Gernachs a wews (Forum July 1960) T in space. We can't solve the staggering

to get out spece program moving it is

Sherman Dake, Calif. DO

THE NEWSLETTER FOR GROWN-UP KIDS



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### SPACE

but they rarely lobby for space. On averrations will geopardize their regular bread and butter by lobbying zeakusly for a

This fact was brought home in no uncertáin manner during a repent wait to the ofuntil now to come and talk to us about it Good question. Many of us missakenly

Learning the political ropes is no easy mafter it may be instructive to review how in chaquesions with the scientific advisor the Office of Minnagement and Buckett (OME)) the Passitions sets the broad out guilfring thems goals may be made public

nology and its Subcommittee on Space After reviewing and perhaps swamp, proposes any further revisions before place

ing the bill before the whole House, where it

by the Subcommittee on Science Technolgov, and Space, then voted on by the afrole

passed to its Subcommittee on HUD and before being voted on by the whole Strutte

nature. He can veto it if he is dissatished

larly friendly to the space program, which with its "open funding represents a fempliing target in a time of cuttacks. Only a

members of Congress - such as Senators Flogo, and George Brown, all of whom

coverge the nation's role in space - feet for

We need to assump to develop and sur-

table. Let's remember who they are as we erter the voting booth-and lorget them-Indiana Evans Jacobs Iowa Bedell Subcommittee on HUD and Independent Michigan Brodhead, Minnecota Verto Notes New Jersey Ferneck Maguine New debate and young Leaving the House ate), Wests Offinger Onlo Selbering Pernsylvania Kostmaver Wisconsin Kas-

Congresses—the rarety-fifth (1977—78 and renety sixth (1979-80). Some 25 twe Each member is classified by state name, party at Watton, and voting record Column 1-Bill HR12606 96th Congress authorizing \$35 million for a teachi-

House June 22 1976 by a vote of 267 - 96 84 not authorized by the Service ! Column 2 - Bit HF233ts 96th Conordia and NASA mip the solar power satelite

Democrats, 115-104 ) Column 3 - Bit HR1787 96th Congress authorizing \$186 million supplement to suthcrusing \$4.8 billion for NASA in Fit

Column 5-Bill 52240, 96th Concrete Bufferige \$5.587.904.000 for NASA in FY

1981 (Passed July 2, 1990, 594-21, Ro.

Arthory (D) CN, FORNY

Martin P D







### PEOPLE

By Dick Teres

ohn Glennis a U.S. senator Michael Collens is curator of the nexts usually do well when their flying claus explorers hasn't been so fortunate Allan Agost is a Washington D.C. writin rovel. Cross, about a chargerose and a viets Washington's National Zoo. The 200 On February 1, 1961. Hem became America s first primete in space. It was and his speed too high. He spisshed down - hard - 225 knometers off course Three hundred sixty kilograms of ocean loaked in before the Nevy found the capture, and when safors popped the

chma's ears. They amved just in time When he came down, he was famous

Appel puts it. Tooking as cracy as a June. bug with popped-out eyes and a gigento chimpanana con of fear and mon News. When he was relived to the National Zoo. they gut up a sign outside his cage at our first chimp in space and a hero among

Ham a 23 years old now Appel says his

an indigat/buildoor case with a concrete floor Appel says he has an obvious dontal problem that seems to cause him pain. His shelflike formation. He spands a lot of time pulling on his teeth and his gums

When Appel tirst asked the zoo what wheed to admit there was any dental Ham's teeth were messed up but he

clamed the chimp was in no pain. As for his sign, a zoo worker told Appel decided Hum should be treated no difofficial later said it was removed because il was an outmoded type of oron and that into a new page with the gorflas and prengutere

15 years or so. The zoo said his new page will be "much moor" While Ham won't be The new dego should be ready for occupency this month. Allen Appel, and Orms.

"Some of the volcarplograte at Mount St Helens have been kidding mo " 92/4 Janet power I have to pet the mounteen to me-

phologist, an urban-planning expera writer Her first novel, fire Mountain is about what might ensue if Mount Ramer ago. Some of the parallels between the \* The May 18 expication of Mount St Helens included e directional blast Heigns spewing ash horizontally



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quickly applicated, in Cultien Tanabella book. Resire from Serb seem throng • In Fire Mountain, 1 Indian activation was to use the Ramane explosion to disametize their cause. The same throng happened carry on view. Mount 81 Hakass. But one parallelies too uncoming for the unjoint is exempted. Services a supers' service them. Disad distribution or U.S. Geological Burner (USGS) techcorrelated in service for the distribution.

at 0 is capacity was survey (usbus) solcannologist, was sailed by the directional blast at Mount St. Halams during the May 16 eruption, "sha says." I may book the leading make character is s USCSI velcannologist whose first markers David, and ha si-blad by a directioned blast from Mount Resider.

"When that actually happened it really

shock me." Cullen-Tanaka puntitides

Pive or sox dolphins pemo in very fast, proling me. They sook off tike a ecosi-

ssuming furmillane resembling Shase () the June Taylor Dancers." The speaker is Stephen Gagne, a emite-one-year-old diver who claims to be a Petd Piper of dolphrise, occupate the feet I find occusion; against a long and feet of Courtains against the dolphrise will not all cleres to aggressor. The feet is the will be dolphrise such passing and the humans as will clean social them as playing with humans as will clean social them as playing and the product of the product of the product of the period of the period

with mone. Furmerly a sound testimoun for rock impressing Bill Graham's Filthon curcent halfs. Gargine has developed air matument resembling a pasen. If has a lephood, a ser and batterly-powered or a shoused in a Pinegras case. Gagne seems stong under within with his strangpond impressing turkes as the gase.

Cagne uses muso bossuus he leets or a expression in his braids clean transported on the control of the control



Edects and the Customer Percent pure.

Glagnis in that step will be to detablish a relationship with a school of delphins, or more a problem step and a school of delphins and more a problem step.

Thu can chop with it and grate with it. And now you can even pure a percess with a Culeman food processor.

That e what Lase H. Toledo, a doptor at Destroit Mourier Germal Mercy Hospital does with his Durshart. It's all for the dake of patients who had to have their pancress, removed. Overwally these specifies with have disbates unless a poncress, removed from another human, can be pulvettated and its inselfin-producing certis are

needed to pulverure the pencreas costs \$5,000. One right when the Tobelows is a dinner party he cought eight of a 550 Cusinsat The says his hostess was a title ehocked when he sekked, UNI one of those trings grand up a pencilses? Tamed out in would Now Tobelod travels about 0 before it made about the property provision pencreases on the spot QQ purposing pencreases on the spot QQ pencreases on the spot QQ purposing pencreases on the spot QQ pe



Novels/ Outer-Tensks Some rister lightering — and healthreaking — valcanic predicases

## JEXT DWNI







THE ROAMERAL JONES — Percentin quest, scholarly Julian Japans deem a certain or consister to core up with the scholar tools at specificacy but from it convolutions to consister to core up with the scholar tools at the consistence convolutions to each grade of the consistence of the COOS (were or so age.— would be committed today as happeless attractions. They didn't frem as well at Jupine believes the encares talk you down the source of "goods" who meet in the sight had of the

UPE EXTENSION—A core for agrigating to discontent before a cure for far few in the object of the discontent before a finished and genetic expension of the discontent before the

THE UNDITECTION—Description is as dissipation to the constitution of overgraphing. During and send ordering ancest man became a destruction geophysical force. Mississipation mans a dependency continue on an alterning scale Annually the work basis at closel or time orderly the core of Maries it remaining as and the context of the c

JCHN BERKEY—I is never looked at myself as a scence liction what as apcoording sit being an errors, single-bit fleekey Berker coloral level has been been proposed by the The Beensy Meissen. King Normy and other invaries colorated the Procernative Space I have been a self-bit fleeker been being surgicial convention of the proposed by the Proposed by the Proposed by the Proposed by the proposed and the Proposed by the format to fight or lict and to copy flowers the emerging white format to fight or lict and to copy flowers the emerging and the format to fight or lict and to copy flowers the emerging white the proposed by the proposed by the proposed or discovering the format to fight or lict and to copy flowers the emerging white the proposed by the proposed by the proposed or discovering the format to fight or liction and the proposed by the

SCIENCE PICTION—have month a man vession with the ultimate oversity whence a Kingle for Death. Once no Good Easter Spart Array, this may pool-holoscust story about a personal trapedly that becomes the business whence not the solation are not the power of the Hunting of Hewstern and health of solation are only to solation of book and the Hunting of Hewstern and health of solation to Death of Death and the Hunting of Hewstern and Hunting of Herstern and Hunting of Hunting o

#### SATURN

where complex organic molecules could assemble themselves. Voyager should set-

ne ship Discovery in 2001. A Spece Odyogy appears to be extremely sharing it is uning hermisphere as to bright as show the loading hermisphere deriver than a blackcears Wyager? I will examine the dark half langur 2 the bright one.

ading harrisphere darker than a blastcast Wayager? will examine the dark half langur? the bright one. Wayager? The bright one. Wayager? will also study Mirres. Dione not Rhee at moderate ranges. Thisse noons are believed to have key surfaces.

The probe also hopes to sywall be across of Salams speciazaria rope. They appear to occasion of insurrectation or occored partnership to the properties the largest of them may also condended partnership to the may also condended where they are obtained to the salams of the solar ayasam of they may be the fragments of a salable before appear by the bed at the condended with a salams of the sa

Voyagar 7 a mage encounters occur be tween 28 hours before arrival at Salum and 8 hours after The closest approach to Titan 4 350 kilometers will take place at 12-31 a.m. EST on November 12

Six a 500 colorative for later of colorative for later of formation of failure, the region desired failure, the region and detected automation of failure, the region and detected automation looping of the colorative formation for colorative formation for colorative formation of colorative formation of colorative formation of colorative formation of colorative formation for colorative formation formation for colorative formation for colorative

Neghray in August 1989.
The beautiful views of Saturn seen have were generated by the smaring computer song states of Dr. Handberg, California of Proceedings of the Saturn of Procedings of the Proposers of the Saturn of Saturn of the Saturn of Saturn of the Saturn of Saturn o

requester his bean anown as his might appear from fallarth. This will draining when they are seen from other detections.

After several missions of human avolution and emerging intelligence marked in beginning for understand his beginning for understand his their this services in umbelding and how we may use the discussions of our space versions. The Mysight expectation is an important first in that services after the first man consistence of the mission or consistence of the mission produces CO.

## G/AMES

3 CALCULATOR GAVES The machine

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## INNOVATIONS

comfortable viewing. They have always can be tilled to any of three angles for also portains video and autholine inputs PM-receiver placed nearby You can also

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enchos square and W monthesk, with a

supposition intail pose of \$29.95 DC

### =0RUM

The story related to me of how the word

The French contemporaries of the Wright brothers, bearing of the tempus, fight at ing the design of the provat. The Whighis the French. for some reason, refused to believe that the ungainly-looking craft had Cast on canardii Meaning of course. brothers' translation. Thus, any avorall de-

Tim Trowbridge

His diet and observ or vincly that Burt Russia the F.4. What he did figure out was a par-Air age at the time (but out of college). As for push-end-out argress, there have infrom The peant of a story on Blast Rutan were enough to use redical actalons to bolive

Wat: Leff's article "Barriers of Feat" (Mind) August 1990 I supports my bekef ther some But I object to the statement that these

abled persons that is "Ittle but a shell of s happy and fulfilled person with a sedu range of interests, good friends, and a wonderful marriage I would ruspiced that back than her prosthelio arm. Still I thank you for your article it shows Elizabeth O'Keele

Carrot Circuitry Wegetable Voltage (Continuum Septemyears of experience (and a good farmer's when a plant needs water it seems the next

logical step would be to have the plants water thamselves. Electronic proutry mechanism Healther plants would result no longer impedia plantsi growth. You could save time and water and avert the frustraton of wondering whether your plant in

Battle over Bathlubs I have been addicted to your magazine for

r. But I have noticed that you are human and do, on occasion make mistakes Your June 1980 Games onlying erred with regard to "Battleetup in a Setteub" it placement For the ship to float there would have to be more water in the tub than

> Frank Halato Madisonville, Tex

Scot Morre repres. You are confusing the amount of water "displaced" with the ship displaces 30,000 tone (a very small batfosho to be sure? If the bathsub is ship in the amount of water that will spill searchy 30,000 have But that's wider many tyb's war is light arough, the water could Palomer Observatory in California, where

lysily libers in a beam on a thin cushon of

The time for selan-power satellite construc-

overcepibly The next generation may not

demoed by environmentalists for two reabe killed. Yet migratory patterns can be Easy Resources is pone with the Age of Cheso-Forei Fuel, and the engineus sup-Michael E Mullendy

Yin and Yang "

The speak presented in Belinda Dumont's article entitled "Orthobeoling" (February 1960) and Joe LaRock's letter (Communications. June 19801 suppost a strict (testosterone) and "terrale" (estropen,

known for quite a white that small amounts levels one 50th of those observed in genital organa implying a regulatory syssmall amounts of androgens (the generol name for reals horrsenes?

These is \$900 druite that astronan cand . possibly pregestorong) affects the female psyche via direct CNS interaction. If on

maleness and femaleness. This might terreleness (yn) in every person is this

Carriel H Lowenstein Harverd Medical School Cambridge Mass DO

NA apologica for on long prote-crisis is from our September issue. The abolics on pages 194-107 are to Edward Learning Charge for that at the believe of page 100 and the one is no attention on page 107, which are to the first loss

Page 5 Fix 160 page 5 Fix 140 North Mitor Sun Druhm page 13, Armony from p Jaff Jacobson/Magrum page 16, Markot Kay 20 Denne Stark-Stark Son page 26, Norto page 28. Film. page 20 al page 42 race pages 72-73, Wil room pages 126-121.

#### FARTH WATCHING

#### **EXPLORATIONS**

By Phylis Wollman

tion 400 A.M. in Napoli, Swepring in the predient horse, the raised bulb disable an wirelegiful over my struggle to get not popornially damp and man-dead analyses. No time for a lessariety trifficial functioning my tockpace. If have not provided to the second more makes this click of the Administration produced and the Administration of the changelise on the second floor bull this changelise on the second floor bull this provided on the second floor bull this changelise on the second floor bull this provided to the second floor bull this changelise on the second floor bull this provided to the second floor bull this changelise on the second floor bull this changelise on the second floor bull this provided the second floor second floor bull this changelise on the second floor bull this changelise on the second floor bull this provided the second floor second floor provided the second floor provided floor provided

odgings. Hilliem and aspring mounteneers are housed here on the outsiers of Kathmondu, Nepal's capital and largest only. Sleeply and with a minimum of childral we breekfast on yogun, manages, and Instant oother. Then ret on our Chanses on a proof the proof on our Chanses.

Sleeply and with a minimum of childred, "We breeffer on yours," mappings and linear coffee. Then off an our Chinese one opead beyolds for an opth-blomman inder over name motion coaster made and across one of the vertigence unscensive bridges that too the length and breeding of the solution most control to the solution the late of the Freeligan peaks.

Clarifornia and the solution is a fine late of the Freeligan peaks.

Our destination is a live-flectare walled forest in which. In rotating dawn-to-dusk shifts, four of our team spend at least three and a half hours daily (except seekended clearing the toop of wild interess more) when the proper seekended when the clearing the toop of well and bring back tood samples that we countly with the add of skiden to botany book destribes. The samples are then labeled and propaged for the past or over, who will present them to state rankyes on the States. Information gleared from the propaged of the place of the the propaged of the place of the state over, who is the States. Information gleared from the propaged of the place of the state of the states of the s

them for later analysis in the States Information glassed from this project internation glassed from this project into the state broading optimises in the United States mice the government of India has barried export of those an mais so necessary to the field of hometerial execution.

Have did I happen to prume halfeey around the world to find out what either morkeys est? My load to helpasi begin in my bathub in New Hosk. Cely White I estating my terrise ebow to a long hot loak. I lipped the pages of a magazine, stopping only at the travel section because I have incurable wanderlast. An fem about.

Earthwatch is a remonstit organization at brings together fund-stanved so-

emide and volunteers eager to treef and work all ower the work, at the work of the work and ware work as the work

Enthwelch's costsiog turned out to be a emorgaeboed of travel tempfations, apairing the globo and the calendar there is an Earthweich expedition to somewhere werey month of the year According to your interests and depending upon whether you climb mountains or suche diver, you what the

debending upon whether you derive mountains or suche diver, you might study areas behavior in Gustanoon, about 2,000 matters up in the Christon Anders or mains to be upon the better of the Certifician (opposit seamment in Permylarian and an archaeological excelusion in Maline A fower new Kestamment in a fer of y from higher hark or his Boas de Boulogne.

from higher Park or the Bose de Bodaggrawichts is one of the resource way to which so may of the resource way to observe intensic morbelay in Nepal My fellow with mean included a few office of physicial, and is destried. All of us were seatored havefers, seeking an adventurous vaccific with a purpose Almost sinyame between the agent obtates and severnly-few can become scheduler and severnly-few can be seen for gust the weeks. It is made on went for gust the weeks it is missed only went for gust the weeks it is missed only to a most only went for gust the weeks it is missed only to the second of the second of whether we week it is missed only when for gust the weeks it is missed only the second of the second of

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watch and its projects
liescope hewing stamms and the patience to track small arimals in a dense losest. Nepal project volumeers had to be



A ben on the capart of rhouse mankeys necessitates their breaking in papitivity for research



NAME Michael J. Lavelle
HOMETOAM Brooklys. New York
CLREENT RESCENCE Saw Jone, California
EDUCATION B A —Philosophy, S.U.NY,
Soozy Brook, New York
OCCLIVETEN Computer Professional
HOMETS Rescarded, basienthall, arts

AS A ROSICRUCIAN, I HAVE LEARNED TO CONTROL MY LIFE

Several years ago as a college student in search of suit, I found reposit collecting responses see less facility that did not apply to my Mr. On history shout the Resignation Order, I was sleptical and sport time, seezingsing to claims. Beneficially 1

Figure 1 have over token.

An a Bosscrusser. I have learned to develop the popular, as becomesons and transformal levels of my mind. With the new nearmons, I can deal with people on a deap real positive level attenting her manages contained to the properties.

penytic on a delay and positive area similarizing manmemorus conditions to magnetism manuscription. I have also learned to manuscript manuscription distinct by abover, the Restorustion teachings have put and treating control of mights.

Today I load within support to understand and

les a Residuation for as long as I own.
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After my application has been approved by the purposal ineducation. So the program of the property of the prop

suddenly cry. Euroba I vegot the shrewer. Volunteers make their own travel at rangements but they are expected to all vite Eurobasch of their glane. Centilival at Tabrusian Augost, on the outstants of Karymandu each of its was wellowed by a staff member and briefled. The 18 participants in my expedition were divided into live learn. The glade.

The 18 participants in my expedition were childred into how leave. The global who were gaing to observe an maliberhador moved into hut had their study sits, which was at 30 easymmehrunath in other leach certary stups (a Buddhist temple). The stups is studyed atop a history were of the object in head and is an important assence unities. (3) officers with their participants assence unities. (3) officers with their

reminey number remained at the great house which was close to the first element we would be spending so much time. The forest had once been a roug laption —were now near the gate there are a few bids to managodis— a flower with symbol import sands to Hindus Morite from nearby Paphupanhath Nepal is most famous Hindu sangle come hore to gather the Sowers Moriteys that like in the finess flowers Moriteys that like in the finess.

If the partition of Hindu detect the monkey god framulant is a legandary flar use to monkeys are partitioned to norm teely frough at the temples in the country. Though the mell creatines van farmers by alsaling their crops. It would be sponle-gous to harm them.

gave us clipboards with legal-size observation sheets in which to too off disponitions of fusious activity at three-minute retrivals for the entire shift. Each of us was handed a set of strapshot of the morehopt with descriptions to help tell them agant. No, not all morehops loss ables but if sinfly

always daily to know which one is which! We expliced the main paths and grows where the many that and grows where the mankays tond to congregate in the manual part peeds through the paths and the manual part peeds through the paths can was became accustomed to the lastly gloom and-see were atter to distinct the path moneyes atteng at ownered on low branches. They were staring down at its We strangled on the neckristips of broadlars and lunched the backpools got always and paths and the p

snapped on branches. More than engining else we ferend losing sight, of one another. We felt clumey and recognished Smoll wander the monkeys seemed to be an obering at us from above.

After only two days, however we were no loss at home in the loss than the monkeys.

issas at home in the lodes than the more eye thomselves, and we soon learned to leacagrice many of them by name. The trails became familiar, we studied more eye insteed of the map.

"Our expectations are takened to meet the

specific intends of our principal invalidations with professional state of the professional stat

Since the organization was founded in 1973, more than 5 000 volunteers from 60 states and 15 feeting nountries from contributed their breish brain, and approxmately 35 million to support research his might not have been funded of histwise And scientiats from more than 300 context stee and miseums have led expeditions in 45 countries.

Almough These expectations are not do signated to busines them a shower will know support to busines in shower will know support to busines in support to the support of the support of support support of support support of support sup

For further information, write to Earthwelch

#### COMPETITION

By Sont Mores

mapatentialis palvavlisbicislis ricantravertibly our readers shing Compatition #14 eighth lines ifryme and each of which has sylables with stresses on the first and

Hampshire wrote "Help! I have been

Higgindy Piggindy

Half-a-page half-a-page - John S Flage Leveration Mass

Yekstrus, Wheirangton

- Chris Doyle, Burke Va

- Colles Keeny Baltman, Md

Hashly Washly

- Suzanne Hubbseni, Otteva, Canada

- John S Flagg Lenington Mass

Singing in basso, "Oh Howland Cosell -Lotte Leie, Alexandra, Va -Steron L. Prange Tippery Topoety If he could hear the Moog Edmund P Hilbry Outrace Achilles by - Allan Rogers, Bunke, Ve Grippity Slippity Hipplody Peopledy Wit the Skit Chamberken Asked by some wag. Hey up. There how a the air?" Politics Schmidters Meteorologized - Steven J Lovelace Carmel Culf -Mark Rang El Paso, Sor Bredlerooke Thesenooke - Harry Stephen: Havertown, Pa Needing an Antiersen - William R. Baldorossa Orlando File Just wash your hands -Janks F Katz, Billingsian Oho. - Ron Swonger, Yoskisto, Mich. Asked. "Are you bride or grocm?" West she replied with the - Janney Kanner Lymenodi Calif He sao delightfully - Carol Sanderson Spookety Flookety Renbodge-klassf Wash Haglady Pagetady - Lynn Alkreich Moland Park N. Some skeptics I have known Carbbed fox - Andrew E. Burgowne, Baltimore, Md. Howty-do Cowdy-do - Carl Notrean - Chosgo - 8 Dandy Don Meredith - Clair F Mercin Greenwille & DO

#### UFO

special news depaid to the New York-Times (December 10 1967), Zigel resided for the LPO problem assuld have been solved already had not sensionalism and inesponsible amisciantific assertions regarding flying sources Leterfored with

"Set necessaria in Secret UPCs have compact yet in the most absurable proc. It will receive a letter to the secret a letter to the secret and the secret to the secret and the secret and

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E Loe Speigel produces a series on unsubjected observers for NRC code



#### ARTH

onlife experiments. They want the WA to

problem as that the WA and the federal

studies should be suspect. "Since the andie external exposure to gamma and

smong warkers exposed to radation av-

Allanta conducted a study of servicemen stallsteally expected. We've found eigh

production of energy and current proceout alleges that the agency did not seed A 52501) to help other sets proper the

now no lederal funds have been appropriswely determine when, and if low-leve



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#### M

lake beerhalt-century people. Staten them out, and have them pout ethnics that are ourself. What five their bit do in playing these roles is to find the underlying differentices bathween their societies and out own men bland this town, this shading into the characters as they are disselipped in the characters as they are disselipped in the larget. Or underdeveleged, as in their he case in 7the Assahring for example, we worked man to make the achievacy foot goal your standard mad screenish screaming. Don't you underland?" Has screaming. Don't you underland?" Has seemed to some your properties of the properties of the seemed of the properties.

coreaming). Don't you understand? He's far more complex then the!" In addition to what he has garneved from receipt. Heston fishing out his characters by writing melaculous outline cumbiographies to which he distributes to his leftow firm reliefs.

He admits that the brand of interinty conlead to curvous econtricities as a risk of on the Planet of the Apes set. "During most brasks he assistants, illustroad that the humans exolid lend to get to greate and not only did the apes eat by themselves, but the gonities would set with priviles and the champanzees with chimpenzees. They did interint lend."

Hordon maintenant that where the "names expression was certile. If and the qualities try-product of heightening the feeling of derivation that the part required. Though liferon is discopported with the poor quality of morest films used of films and poor quality of morest films used of films and poor quality of more films used or films of the poor quality of the poor quality of Prought and endessor in society at lenge. Prought and endessor in society at lenge. Prought and endessor in society at lenge.

People adem to regel as within most review or remaining the production of the case to view carries to com the word wide as a perprint the fine-to-fit against group of the case of the case of the case of the production of the case of the case of the production of the case of the case of the production of the case of the case of the 1984 Anyone who has the capacity to their has some the standard boddy of the case of the case of the the case of the case of the has the three to the case of the has the own for the case of the has the case of the case of the has not considered on the case of the case of the case of the the case of the the case of the

thing you look out the window and think, My God man chilled over that one in the absolute lest extreme of effort on the base dedge of survivals to get to the North Pole and here! I am atting and deriving scotch, and limite grant deriving scotch and limite grant entirely out, and I mit exercise series! I supplies moneind out, and I mit execute out of the series of the limit and of perception."

That is vical introduce can exist be judgment of active and and see grant pudgment of active and the series of the series.

many people is something the actur sees as modificately dangerous. Take nuclear power are energy source that we clearly and absolutely impaire. The says. The very people that wave humpering from goed it was going to be (some of them used to say.

nuclear plants would provide power too cheap to be material) well these same people now scream. No rusked No rusked I find that laberiant and material. Hastins a consumer that the hierd hatred

Heaton a convence that he belief have of progress or product by a volucile edge of progress or price. He has the traper of our least first if there is the traper of our least of the product of an any of even a country for a unit of an any of even a country for a unit or for any or even a country for a country least of the said in country least on any or even a country least of the said or the least of the said of the said

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### MAMES

# STARS

roblem. We have 460 million square visit making a making making making making making making pasara with performance or charge making pasara with performance chargem makings pasara with performance chargem makings pasara water chargem and a speara pasar of covercast datas. What the with rainer 47. The red exists as a whole has a reme alwayd—when the trainer was a service of the country that the pasara was a service of the contract of the country of the service of the

mapping by the Pensan injunicent, which advised through systems ago, we make here may be the an about the size of under the most have a shorthy size of under the Pensane programs adds attended the Secretary have instead attended the same of an activation and activation of the fall inspect of a soft stack did. Mis. Extra the have investiged in the fall inspect of a soft size place of the soft size of the same of the soft size of the si

Formalini - and riff product colonial hastawa formally colonial prosessing with processing control colonial processing with processing sporyers. Make we get to be deed may be Martin second you processing and the processing control processing and colonial to the progressing control prosent and the processing control prosent and being spousoned. New control based on and when processing control prosent and the prosent and the processing control proter and the processing control prosent processing control proter and the processing contr

Sidus. To the elected credit of the scien-

Now it's Venus's furn. Even the adjactive form of the name of this cloudy planet presents a problem. For Neuropy three is "Mortomer" for Mars. "Narhari", for Agrier "Javari" (no" swell") and so on Bur whet to do about Venus?

Property it should be "Venuson," which

Property is securit to "Neversian", which sounds cold, or "Neversia", which is leasy convision to close of transmissible disination. Yet was a state of the control of the whore adopt. Cythaniam: aller a Stocker mann for the podosocol orang. Std. orang. I shall be a state of the control of the the treatment of them, and the control of the feature of them, and the control of the landscape of the planet. These plates are more por forwish and provide plates as more por forwish and provide the landscape of the planet.

Cooks, whom we know as Salam Pires, in addition, was Chouse with the profilem can only get worse. Observed in The profilem can only get worse. Observed in Texas Atlas of the World Island about 215 000 feetures on Earth (Including Neo Farmed Verus, one each in Texas and Flonda). And Worus has these times if the Island Islan

There's this doubt has help problem with the help problem and the help problem with the help problem. The coupped of the help problem as the help problem as all problems as the help problems as all problems and the help problems and the help problems and the help problems as which heading layer a large number of beautiful manners? Take for eximple Dealthfranklose the sister of the Attect tain god, and herstall the pathorness of sold-dark problems and sold-da



Map of Versus descentibled from World distin puls of each And deministration on wow



#### PHENOMENA

As a move squall (sweeps the Aspanese Island SAMes), whoopen severe (Cypnese Island SAMes), whoopen severe (Cypnese Island SAMes), whoopen severe (Cypnese Island SAMes), who can be severed (Samese Island SAMes) (so Island SAME) to solve Island SAME (so Island SAME) to SA

migration in October and November by solvening an amount food an possible for their flight from Siberia, across Korea, to mattlem algors. They Siber has been photographing these estimosismity adaptable brids for some TY years. This remarkable photo was token through an Edmin Plans ten escanding an Hamilton Carriera. Sings used an POTI aparto. The photos was shot an Vizude of a second DOI was shot an Vizude of a second DOI

### **GAMES**

By Soot Morris

As Cross enters do that dyear we take time to nevew the mail that have come in whice we devoted a column to readers indeed just one year ago.

MATCH LP Context 1976; New treatment context in text the purplet from the dated Bewermatch as see amongset that a desermant has see amongset that it all and purplet and desermant of the context of the

malely) set up the matches this way

struck up a clover presumptional

3. CALCULATOR GAMES (February 1997) Our obstactor column insulated the templary purpose in out to find the cutym behindry as also dut to find the cutym behindry to get out to find the cutym behindry the game of the cutym occess and with an answer of 1971 77-36. When the dutym is univerself 1971 77-36. When the dutym is

READER CHIGNAL 225 The calcutor games prompled David Milliam Octawa Chitano to ask: What costs to Open saus (enter 2001, hes 139 agos of Atum-onemed manasi (add 10), contines more than 40 pecces of ecolern faction per year (add 40), and this er subscriber to save 50 op per year If the researched proce (subtract 600)? 5 RHYMELESS (March 1980). We asked for common Briglish words of the or aix. In that a such that have no thymsis. These we had in mind was oblige orange, and month John L. Latimer of Cleveland.

PETNAMES
When younger Elijah was rickn
To change his name block he w

THE BUILDER'S ORDERS
We will first hang this door on a door A
And afterward paint the door crange
"NYT HUNLITHPETH GFREE VERT
(also my boy to me doodor."

10. THE DECRESS (May 1890) Non-hair consideration of the countries and member with the countries of the countries and member with the countries of the countries of the countries and distillation are well with the countries and distillation are well-registered to the countries and distillation are well-registered to the countries and distillation and the countries and distillation and the countries and distillation and the countries are the countries and the countries and the countries and the countries are the countries and the countries and the countries and the countries are the countries and the countries and the countries are the countries and the countries and the countries and the countries are the countries and the countries are the countries and the countries and the countries are the

7. DESIGNATURES (April - May 1980). Our competition for graph overciptly beought much appreciationment is men ton by Johnny Calson on the Body's Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and a report in the second - Segret Sea and - Segret Segret Sea and - Segret Segret Sea and - Segret Se of Philadelphia Langdon x. Touch has left right symmotry, it was designed as a logo to be eithed on a glass door that can be each from both sides his. Victors and Petrick's Vangel, and, Utopia, are



c. CALC R.A. LETTING (Apr. 2001). While Include control of Mg/ 5, 1979, at 2 42 47 M Include control of Mg/ 5, 1979, at 2 42 47 M Include control of Mg/ 5, 1979, at 2 42 47 M Include control of Mg/ 5, 1979, and 1979,

# 9. PHYSICS 101 (June 1980) We made a few goods this time in ANT S WALK iso

lew goods this time in ANT 8 WALK will mean to say that the art is working away from the man at one inch per second letting to this hot dog not hallwar to the man a mouth. The correct answer is 181 inches per second, not 170 per INNER SPINE asked whether there is more or less created and an artist to the correct answer. The action of receipt in the post work about the price of overviews from the post of the p

Group to the earth's demain replacement one Quite on Assemble posts on Earth that could sometime the properties about the could solve the country of the cou

7660 6172

10. LLDCY 19 Mery (1963) New mary hissels 11-51 reported on the basis 15-10 TW be east may but widows from the mary 11-51 to TW be east may but widows from the mary than the concentration of 3 breads each mark book his malater with white the control of 10 to 10 to

Questionable 15's One seader found features sharlows on the CNF, but only if one counts them the right way Savaral mentioned the loop pattern to either sade of the DNE in the center of the bill and claimed to see 15 (copier) either though others might count them differs

total correcto what?

Answers recluting the solution to last

niociu

COMPETITION #17 UNCONFINED HUMORI

 During the Deershower Administrate UFO prosthed and leited its occupants. The green bodies are now on lot in the prost Postago of a Form Base in O.

 There are alligators in the New York City sewers, grown from texty Florida souveness that were flushed oben to lets after their owners grow tred of them.

 If you order scalings in a restaurant you littledy get attack most that has been stamped out with a cooke outler.

 The American Medical Association is security subsidizing the lobaccount distribecomes of the immense prohibility of cancer Internation.

 During the gasistine crunch of 9979 is newership to bowed a Shell for Brund's gar truck down a described doubley road and firmed it as the chival got cut and thempal at the gasistine should be if it has familia accomplished in purchased by 60 Marches.

Marilyn Morrod was killed by the Mate disgracing Joe DiMaggio

Walt Disney's body is frazen in uspended arresallon

No astronaute ever were to the moon he famous flanding was filmed at a exist government base in Nevaula.

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