

## EXCLUSIVE: NEW DIMENSIONS IN DEATH A CLINICAL VIEW OF WHAT IT'S REALLY LIKE TO DIE...AND COME BACK

Destant, St. D. Dicriminet, H. Facrineov. 2011; Center, In Deciment, 2004; Rey & SWE, Rein, Vol.

# EEBBILLARY 1983

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Egyptian landscripe on the power of this month's Orma New York 4 OMNI



## FIRST WORD

### By Ben Bowa

 As long as the media perceive the space program as a sportedid series of events, coverage of space will be as meaningful as cover solverage efficiencies de la construcción de la construcción

But there are no guarantees at the Construction or onlywhare once that a free press must print all the facts. Or that the lighter must pay effective for the facts below they enter the polying place

Devices for specific a relevant control of the specific at a specific at

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from the experts they had brought in for the event. "Well Jum (or Dain, or Torn), this we wery complicated vehicle here. Others of MARIA three seet that ends a

giverment agency could mare flights to the motion seemboring. But that is pulling the should be wrang fact. As long as the methe perceive the space program as a pece we un docutere and a termingful as countriege of the chham if comes to both each year. How can the others make intel gent

decisions about the value of our spaceprogram when the lack panels balance executive the user name is and or Monthmather match of the host failed that the panel executive panels and the state of the second executive panels and the second balance and the second the second second panels and the second the Acade paragraphic waits lifed and the Acade paragraphic and for any significant, anywhere from these to an other paragraphics, anywhere from these to an other paragraphics anywhere from these to an other paragraphics anywhere is the state and the second paragraphics anywhere is the state and the second paragraphics anywhere is the state and the second paragraphics and the second paragraphics when they lifed

space programs

are making to the European Space Againcy to learnth American communications addition because the space shuttles it lights are barry competed or stretched out by our government do not

The strate but vigorously growing about programs of upper, include, and Drink disnot occurs the missions of the television matching of the strategies of the television state of the strategies, they not herecore onche dis television in the television herecore onche dis television in the television herecore onche dis television in the herecore onche discover attempts with the here ratios in the here passion in the here of television in the here of television here of television in the here of television in television in the here of television in the here of television in television in the here of television in the here of television in television in television in the here of television in televisio

And there is always the Struke traces program to think about Struke Hie hand add Space Place of the 1960s fits Annexism redit haste beddet Struke space achievements as indonivers. Scruke den Forschlor totacia have actually perguaded indici of all modul that the Restanse ways practifying the such the moon and that the Space Place was a Water House comparison.

In Juny 1991 Sport Present Levral Province announced bittline Servici Turcon with pape a permanent speech staffun in course in paper. I Benthere saids it, the comparents for Material Service and Applied Table The Province Service Service and Applied Table The Province Service Service Service Service Table The Province Service Ser

Duty you result have name in your local newspaper? Dud you hear them on the rocko news broadcast of see them on the relation? The news alterna?

"The truth shaf make you free But you must be told the truth all the truth CO

# CONTRBUTORS

# OMNIBUS











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A seventy-seven years of age, Sakack Dak is pathaps the most famous living artist of this century Naie month the world is largest collection of his works will be unwilled at the new Sahardor Dak Museum in St. Petersburg, Pierkin To concide with the outural event. Omn' presense a broad kelection of the Spanish Sumesliet's paintings beginning on page 88. Beat Novem for the disput clocks and certragecus mustaches, Dah termine an immensity papular engines, substituting and configurating the public with his art and antos.

West inspaces when God the? drag Boal tooks at the alternation location oceans octamicly in Test? (logge 46) the starty of a universal that has come apart at as image. Though new to Oravi (Boal is a miggar a certification to Avelage and Galaxy when its ofthan who an obtological themas the most recent boals at dia when he ofthan who and boalogical themas the most recent boals at dia diagram and the most recent boals at the observed whethis out the objects when he ofthan whom on the Mexami varial bar greatering low — Justiers.

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## COMMUNIC/ATIONS

### Daen Mind

Thanks for publishing. Religion in the Twenty-first Century, by James Reaton, Jr. December 19811 It was a wall-writight

William J Reynolds 74A Ambassacior manazina

In your article Project Tests (August 19811 you erred in stating that Nikola Tasla Dig (sa (one Mandich) Testa, whose main

As an American of Serban descent 1 credit and prestige his discoveries and

Michael Milanovich

Well take your word for it but our source, Xugoslev -Ed

### UEO Elaboration

I would like to clear up a problem that was LEDistar man (UEO Lindate November

### Posts Corper

Your vanety of articles gives mis a feeling. third-eninversary issue [October 1961] inspired me to create the following lyndal

### Tears and Taxes

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Lucks from at 1042 and the space

Onvir a a monthly recender that we are THER IS NO FLEUR

Lon Marquard



A brief and compati will be young the or not you spinal a name you will be not you spinal and the Cubit turble. Primp to Come do 2 coming Selectors and a shreet or those or in address up is a shreet We chose in address and a wheely of aller whe choses in address up to 4 limits a year car May riferrive of special Selections deeps at low CAB prices. If yes well be been at the CAB prices is yes well a support antibiothership a year don't want is Salec. Au un vol. noted the bits in the loss within 10 class and retries are unwented form you may read take only 4 Social-Alasteaic during the cathing user the registrin system from the cathing user. Culdwelling the three the cathing user Culdwelling the three during and and the Selectors are alignly togets but always (SETION Interference) and always (SETION Interference) and always Prices about are publishers' editor proces

Funder 15 parent must see

# FORUM

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In reading Ben Bover's First Word [November 1981] | perceived one very response I am saddened to say is that he

But at this point I must raise my voice the God they claim to serve. The last needs a political arena to prove any politi hammers of sudgment over the heads of power they are not following God. If this heretics with all the political and military lew who can afford cure a be

Evolutionists and creationists alike. I

Jomes Million

The efforts of covationets would be much

Kerh J Cross

### Playing Post Office

My thoughts keep going back to the a true story of bureaucrast buncing. It

2. Phone the post office and say "May ristantly alert them that houble is aloci

Helen N Atlas

7 Add 50 points if your mailmen throws

### Hairy Durry

ment lineed support from my tawaita

These is no scientific evidence to support maily descended from apes. Wen it is years if so Or Steaman says hav may be wears --- Ed DO

# How to make a speech

## **By George Plimpton**



International Pater asked General History and who's in devoted to speak about st, to tell

One of life's terrors for the unanitiated is to be asked to make a speech

"Why me?" will probably be your first reaction. "I don't have anything to say." It should be reassuring (though it rarely is) that since you were asked, somebody must think you do. The fact is that each one of us has a store of material which should be of interest to others. There is no reason why it should not be adapted to a speech

### Why know how to speak?

Scary as it is, it's important for anyone to be able to speak in front of others, whether twenty around a conference table or a hall filled with a thousand faces.

Being able to speak can mean berter grades in any class. It can mean talking the town council out of increasing your property taxes. It can mean talking top management into lawing your plan.

### How to pick a topic

You were probably asked to speak in the first place in the hope that you would be able to articulate a topic that you know something about. Still, it helps to find out about your audience first. Who are they? Why are they there? What are they

interested in? How much do they already know about your subject? One kind of talk would be appropriate for the Women's Club of Columbus. Ohio, and quite another for the suests at the Vance Lombordi dimner.

### How to plan what to say

Here is where you must do your

The more you weat in advance. the lass you'll have to sweat once you appear on stage. Research your topic thoroughly. Check the library for facts, quotes, books and timely magsaine and newspoper articles on your subject. Ger in touch with experts. Write to them, make pril. phone calls, get interviews to help round out your material. -

In short, anther-and ever use. You can't imagine how much confidence that knowledge will inspire.

Now start onanating and writing. Most authorities surpest that a pood speech breaks down into three basic parts-an introduction, the body of the speech, and the

Introduction: An mind very quickly. Once the mood of an audience is set, it is difficult to charge it, which is why introductions are integrant. If the speech is to be lightbrarted in tone, the speaker can start off by telling a good-matured story about the subsect or

But he careful of jokes. especially the sharey-doe

"What on I done urous? Taking refuer death ataffing pages and reading my shouth Reise Come cat make open restare, sale to your cadement?

variety. For some reason, the solethat convulses guests in a living room tends to suffer as it emerges through the amplifying system into a public eathering place.

Main body: There are four well-made speech. Thuse are 13 to entertain, which is probably the hardest: 2) to instruct, which is the casest if the speaker has done the research and knows the subject: 3) to persuade, which one does at a sales presentation, a political rally, or a town meeting: and finally, 4) to inspire, which is what the speaker emphasizes at a sales meeting. in a sermon, or at a per-rally. (Hurry-Uo Yost, the onetime Michigan football coach, gave in such an insperation filled got carried away and at led his team on the run door into the swimming pool ) Summation

> should 'ask for the order." An ending should probably incorporate a sentence or two which sounds like an ending-a short summary of the main points of the speech, perhaps, or the repeat of a phrase that most embodies what the speaker has hoped to think of the last sentence or two as something which might produce applause. Phrases which are perfectly appeopriate to signal this are: "In closing ... " or "I have one last thing to ser.. Once dong-fully mitten, or the main

points set down on 3"x 5" index actual presentation of the speech-Ideally, a speech should not be read. sound as if you are reading it. An audience is domated to see a sheaf of papers on the lectern, werting his thumb to turn to the next page.

How to sound spontaneous The best speakers are those who make their words sound spontane ous even if memorized. I've found it's best to learn a speech point by point.

not word for word. Careful preparation and a great deal of practicing are requared # to make it come together casily Murk

Why should you make a steepid! There are four by reasons (left to right) as separe. Why headed you make a factory "They are four by reasons (up) to reput in an to permaste, to entervise, to instruct, 2% toll you have to organize what you say weeks to prepare a pood ad-hib speech."

Don't be fooled when you rehearse It takes longer to deliver a speech than to read it. Most speakers peg along at about ICO words a minute

### Brevity is an asset

A sensible plan, if you have been asked to speak to an exact imit, is to talk your speech into a mirror and stop at your allotted time; then out the speech accordingly. The more familiar you beconfidently you can deliver it.

As arrange who listens to speeches knows, brevity is an asset. is the laws an unitence can listen.

In mentioning breatry of its Washington's and 135 monds. The longest was William Henry Hamson's in 1841. He delivered a rary hour 9,000-word speech into the teeth of a freezing northeast wind He came down with a cold the

following day, and a month later.

### Check your grammar

Censult a dictionary for proper meanings and pronunciations. Your audience won't know if water a bad speller, but they will know if you use or pronounce a word improderly. Inmy first remarks on the dats. I used to thank people for their "fulsome introduction," until I discovered to offensise and insincent

On the nodium

three or four people in the audience

the speaker is apparently assing his

whom to focus. Pick our nearly who

A question period at the end of

a speech is a good notion. One would

not ask questions following a tribute

attention to the entire more -----

How questions help

preferable in different sectors so that

tirement, sre but a technical talk or an informator speech can be enlivened with a question period.

### The crowd

The larger the crossl, the caster it is to speak. Excause the response is multiplied and increased. Most people do not believe this. They, neek out from behind the curtain and if the auditorium is filled to the rafters they begin to mean softly in the back of their throats.

### What about stage fright?

Very few speakers escape the so-called "butterflies." There does not seem to be any cure for them, except to realize that they are beneficial rather , than harmful

and never fatal. The tension usual speaker, being keyed up, will do a better 10h. Edward R. Murrow called stage fright "the sweat of perfection," Mark Twain once comforted a fright-

freen friend about to speak: "Just remember they don't expect much." My own feeling is that

with thought, preparation and faith to your ideas, you can go out there And what a sensation it is - to

hear applause. Invariably after it data many, the speaker searches out the program charman - use to make it known that he's svailable

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MYTHS OF SCARCITY

## EARTH

By John J Berger

Single state of the state of Sona, Mesco, the car carrying Fances Moore Lappe and Joseph Cohns stated on frees from the easier highway in a broad migration dich. Around him shatchoor brought of acres of cotton wheet, and businets of Lapiscal homes with springleoid lapins and see mining pools glowed in the last rays of the setting suit.

The agroubust recenches were warning the birthplane of the Christian Revolution — the set regard furger and the set of the set of the set of the were out sativation by dimulating agroubust production with the sectors intigation. and new high-sectorized the secalation had been accessed the secalation had been accessed the secalation had been accessed the secalation had been and and the secalation had been when with the secalation in sectors in creations

Yel Lappé and Collins knew that this so called involution had failed to obligate hunger for millions of Mexicans. They had gone to Sonota to Iseem why and to talk with the concessions if beasant landowners 3 and the landless laborers who could artswer their curvations.

As dark list, the two Antencians target harmout have to spond the input in the holds: A group of tend time workers, comprig machines, soon appeared Without herding of the advantage without herding and a puther the automobile out of the mut. Before the American memorthers left Socras in August 1978. They Midd Sperif many hours with Press Unders, teaming all they could

Actionale ego, the pessants built here here have been and beens for community exots. There when the Mexico permitted automation the Mexico permitted automation the Mexico Resolution, the impation land access of the Mexico the Mexico for the Mexico the Mexico for the Mexico permitted automation of the Mexico permitted automation of the Mexico permitted access of the Mexico the Mexico for the Mexico for the Mexico the Mexico for t



Approximate in the United States the broadbacket of the world. may each be in serious yopandy to OWN

dia/s work. They and their families rarely had enough to eat

The equate narray surprises Loains, which had sparting the addisperiod with a subschule sparting the addisperiod with a function. Period and the subschule set prestation offset in most to run addises, he had constant contract with the poor and maintoin shell by the time to be added that much interface shell by the time to be added that much the subschule shell be added and subcharacteristic set. The subschule shell be conglemented in the subschule shell be required at their sense added and the

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The result in late 1925 was the formation of the institute for Food and Development Parky headquartiered in Bis Harancook Swaam Darket Lappe and Collins sport much of the next Word Darks managed to wait most of her movementher Hard Weld, including Substationary Almos, South Avents, and Substationary (Almos, South Avents, and Substationary (Almos) (Almos) and Substationary (Almos) (Almo

The caused hurger for tast a billion people this aphrait he world, hey charged was the integral distribution of faal people if then mainsensible could only plin control of these resources they would be able to and hurser thermelves.

Unlike Green Revolutionenss, who believe hunger exists because farmers don't produce enough food for the world is contravery by man re

## LIFE

By Dr Bernard Dixon

enetic engineering has been bunched with more ballyhoo hystema forebodings, and prospect, and polerbets themselves incl

prester concern centers on the mos

another creature sigences Then Dr Martin tisken from a mouse endowing them with repistance to the anticancer drup



Using genetic engineering tools, scientiste hope they can cuist diseases by operating on our DN-

More recently Dr Jon Gordon and his mice. When the offspring were born. Dr. to find that the foreign genes were

ing genetic detects in mar? The most terripting candidates for pare therapy are to replace the delective gene with a fully

easy challenge to culture a patient s

ruckmentary stage. Not it is equally certain overcome Progress in related technol

Opportunities abound. For the moment though the key word is paying OO

COMSATURATION

## SPACE

By Jesco von Puttkamer

he available space in space -however paradoxical this may source the space of the space of the building static on pame real estate on building static on pame real estate on task of or communications satellites are becoming scalacer than budget moreneess for NASA.

The cooperation is packed has come quoting of a scalar with a first site of the scalar state of the state of the scalar state of the scalar state of the scalar state of the wind California of the scalar state of the wind California of the scalar state of the scalar howing them is find scalar state hours in protocols with the scalar scalar could per up the series of the scalar scalar California of the scalar scalar scalar could per up the series of the scalar with an statement Might skalar boundar with an statement Might skalar boundar the scalar scala mails Than 100 operating geostationary anticities: There sophilacabon has grown too The fret Comest Corporation colimitarcal lastel the spinched in 1985 could handle as mail towinitiand of 240 telephone oncurs simultaneously By comparison the Intelest V-A support 1980 is a servicine with 12 30 circular

But the demand for such notcuts a subrobusing, large-pack in summing out. For North America globalization of the United Distribution reveal of Distribut of the United Integration Staff in availability lepsical encountion on the them Not Distribution of the Distribution of Distribution of the Distribution on the them Not Distribution of the theorem can be builded as an entheorem can be builded as a subtraction of the theory of the Distribution and indefinition of the Distribution of the Integration of the Distribution of the Distribution are restleted in North America al such heaparchybrid

Frequencies that can be used for communications satellise are also initial tobed general bands. The C band transmits ladio signals to the glound at theorencies around 4 globhets (billion theorencies around 4 globhets (billion theorencies).



oversiversity preventer sprouting sets of ansames, equilatine of educe congression in space 90 Celon

cycles personand or GHz) and receives alternated & Ether. The K, band sends at around 12 GHz and receives in the range of 14 GHz. The actual troppencies used which are like the current of the dell on a standard AM or FM radio.

But the working of the (grid) issued - the control of the source of the barrow of the angle the theorem one in the barrow of the angle theorem one in the barrow of angle theorem of the source of the theorem of the posterestor of a grass() and the grid of theorem of the source of the theorem of the source of the theorem of the source of the source of the theorem of the source of the so

The did nothing to overcome the congestion the solucion assumd the turn of the centrary would be analogoca to what happens in a busy arport when there aren't encough pury prone. Lines get Tong termain fails. But in this case those in time would be major induces or or Third World countries, demanding a share of the "Jonation". Interfered

Constructions of Usual to the principle induced by Comparison of the principle induced by Comparison of the principle induced by Comparison of the CHEAP TALK

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By Gary Alan Fine

notechnistis valupies are stealing negrithorizodi cata and doga and eacing teem for support, several calless reported on the SP Built. Minimedia Humano Society a lev month's ago Went the name was primod in local vehicits agring and in local vehicits agring anti-mand the United States with similar coolead-par compliants.

Despition, New York, Osegon, and Califorms told the St. Paul society they knew incidents of thet sort had occurred in thort homotowns. One heights Maim receivent addect a new west to the story. It was Harkans not Indochnesse who were earing price

After intensive investigation, no evidence was produced that Asian strugges had outer other people's pets effert in 3: Paul or anywhere beili not unhad States. Yet even now people will not walk pets in Indochriese nieghborhoods for hear of perspaping.

Wey between such a luidoruge runo?" Thesis not the oxig wine part runner have appressed, and indechnese are not the dealing pace with now been accurated of dealing pace. Which American who grow us the origin of the subsection of the subsection have at hose subsection of the subsection of the the origin of the subsection of the subsection before of the subsection of the subsection of the the subsection of the subsection of the subsection of with the recently.

These virtues flastrate the ethnocentric endoworphoto tarees of human beings Mary entrois, uthough centenly not et, effect our frast and fartases aloud offerin These Tacle' convince us that our physicles and againmais. Social study of the study a single market and the Ann Knopt, attra an extensive study of tacular survey commenter. Among at the study a single and eth and backstored from at one them that and validity. "As a insist. Fruinces anne in enertices hotels beliefs.

Taking them stronger and more acute In the case of indochanese patiesters. aware flocing strength a forsie soil for runnar growth. Indochniese emergants compete for jobs and resources with other Americans — a mary that can lead to Inforse hostify and aggressive behavior. Also ther cultury traditions are largely unknown to mark Americans, so any exporcations hostiewate

Social scientisti with have examined structures the concept of effort table mail/ring 10 explain why proprie ans lable to believe unsupported associations hisphologistis Cardini Allport and Leo events 1 hui fallow each offer with the beeldomig speed. Ruman wake things empler than they schuldy up to people don't leve antioguy if they table absorbed in the antioguy if they table absorbed in the antioguy if they table and people to an they actually up to

Planosi answer implicit questions and successful rumosi answer quastions that many of us there. What are indoctinese sally lake? Why week John Kennedy sho?? What makes Microsoft Shertburgers to upd? Why did litenties that believe Paul



Pack McCartney. Is he dead or alwe?

McCartney had died in the late 1980 s? Rumors are shill orroulating that answer

 Lynclon Johnson and the Taxas marka killed Kennedy to get control of the White House

Konnedy was assessmented by right wing Gibans because he was going to microarse filled Cestras Cubie + Left-wing Catara killed Kennedy because he had neily seen though the Decrument bonapracy and was planning to catak down on the movement + McDonell's framburges are must from

cardboard horsement, fined worms, and sewclust

 The green apple on the inside label of a Beatles record turns blood-red when dipped in water (Just one of many clues aftesting to a deed Beatle.)

Notewerty runnor will Sourish. People belves only what they lose is believable centures agomany unter deal with superstausi loses: devis, devised shore we rolinear graves are tare across we rolineary grave certaine access and acrossing grave certaine base been publicated from the work of human action. We do, however contraus to balave in the interensity of order social and othing groups and so runnes continue atioal autoidems.

Become decades ago ruman about corporations were uncommon. Today corporations are a leading sumar larged Large corporations influence our lives, and we suspect they are capable of anything part as demonstronce were thought to be Why else would we beleve that buible gimmicauses canoch that that are small as lined disclosure, or that the mean another to reconstruct our sum?

People after in what they believe Some Americans are saidly to believe inrything about blacks or Joes of these are prove to dismiss such instructions or allogators Some believe reports about UFOs. Others refuse to discuss such nonsense

Some rumors are so believed a that few responsible people try to check them ext. One straining exempte concerned the assessments in June 1981 of Destrict of Columbia Mayor Manon S Barry, Jr contrastic weat res.



## THE ARTS

By Bill Moseley

A set of the set of th

Are they affects, vandatis of merely angry adolescents who hold the subway straphengers hortage to their unique and unsetting brand of self-expression?

By the early SoverData fueled by sympathetic media affection by its subjutchaty append as the voice of the



Shahing, or higging over " a writer's work can level to a confermation — unitable or physical 25 OWs1

ghetho and by the lack of an effective determent, the gath's movement swept thousands into for ranks and moved undingerund into the shahood, log-qat (off-pack into age hacks) yeads. Extrately and being of the sprawing subwey in adequates service, let store to nom no the brotes who pound into the subways the bodies who pound into the subways to further motion the TA water writer

A rise T-A report describes the types gent market as multicle of allower socioeconomic status. Fourieri to select servers of age who seeks seccipitent by placing the tracket select server is particle will see it and possibly get to locify of Ho does not let his a destoying paper by marketine. Who public is to socially accurate it is not uncommon socially accurate it is not uncommon socially accurate it is not uncommon social and a second the social social second the social second accurate social second the social second the social second the period of the Social Interview of Marketine Lower East Dol

New two psychiatris Soldwy Lexiel bases beging the overhead as symbolic of the trustificant of assistance. The local takes similar monkes they to all trying to brock away from their note and go insisteme do than traveling the load last them do than traveling vacancialy it becomes their emissing to the wild they want to enfort the auto which that infests ongoing them.

What dating upter New York subway grantitiatis listen the malion of load who provide the submark of the submark of the base are a series of community a shored the nextee writers, or they's (loading) the submark of the submark of the submark balance and the submark of the submark balance and the subbalance are the writes the distribution they call balance interest of the subbalance are the market of the subbalance are the submark of the subbalance are the

For most of the graffic artists the subway is their main source of transporcontinents to rear rule FILM

## THE ARTS

By Jeff Rown

Proposition of other provides provide and other provides provide receives in month years chronical four diskey men who compregete regist is exchange adjusted interesting the exchange adjusted interesting to exchange adjusted interesting to exchange adjusted interesting to exchange adjusted and they commonly adjusted to adjust the adjusted to a

An acquiril intelligent movie (Chord Davy is now anongasity instead (Imit III some nada across the early ISPD, when the stellar accuracy instead (Imit III some contexplay accuracy instead (Imit III some Contexplay in the context based (Imit III some Contexplay in the context based (Imit III some Contexplay in the context based (Imit III some Contexplay in the some context based (Imit IIII some context based (Imit III some distribution) and (Imit IIII some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context is a some context is a some context in the some context in t Soldler Spy-have relied more upon inference than upon wed and unsavory spacial effects to highlen timpoers

The success of the film adjustmen in it on ormal way michanish is table to full leading adjusts, actors who are monogine compared to the success of the success and Access Douglas (Instantics, J. Health Mary Douglas (Instantics, J. Health Mary Douglas (Instantics, J. Health Mary Douglas (Instantics, J. Health Househart has been adjusted in Househart has been adjusted (Instantics) millions of people are altered (Instantics) and under Househarts Office and the success and millions of people are altered (Instantics) and the success and house the people of the set people act househarts of the set and T. Yawan Borne Paper Chase

Espose herefs stuch of the infrasting suggestion Based Lines, and the severity-included activa of the lawyer be playing. Rotes 20x7: A porton of this is the chescale part of its me and active of its the vary Vectorian mold of the material (1) think we vertaile a pottion had before that her movel, which has anothe farily improbable subpots and its hidoways complicated. There is no



The firm Ghost Story suggesses the current crop of land, suplemaking homor protons to carbo

enboadery in the film. Duri focus is the supportunities provide for an enduring words anothe interactions fait and culpatibility that is balaker the Strobe off aschman— sense that as difficult but most interacting to explore with a carriers. While brought in none of the latter inpulsive demonscipace sould not pulsive like Assembly to Rady, which was defaulted as the state interaction of the latter Resembly to Rady, which was defaulted in the most benifying events are shares soble editer than bloodhinity.

Houseman speaks with the autority of even who has both lend and casked a great deal of mouse-popular likelity and the set of mouse-popular likelity and here specific both of the creater as a producer Amergina accomplaining mode integers that both of the creater as a producer Amergina accomplaining makes approximation of the control mode integers that here the control mode integers the control mode integers that here the control mode integers the control mode integers that here the control mode integers the control mode integers that here the control mode integers that here the control mode integers the control mode

The first condensitive maps incurrents to a minimum distant should be added and the should be minimum distant should be added and the minimum distant should be added and the should be added and the should be added and the product of the should be producted by the should be producted by the should be added and the producted by the should be added by the should be producted by the should be added by the should be producted by the should be added by the should be should be added by the should be should be added by the should be should be should be added by the should be should

In concert with this philosophy few other artigits have alternately fialled and company on two the

# SOUND SO GOOD IT KEEPS THE BAD AWAY.

# FUJI AUDIO CASSETTES.

- Planting March 1 2 K TK, Mayon See Divisio 24 708 Junia, SCHVD18, 32



## THE ARTS

By Robert Weil

existing books are no longer marketing. They are created by marketing they are created by marketing experite A young appeal of Socie Action and the marketing experite and the marketing experite and the marketing and the creation and appeal of Socie with the Work, but unless book can set in with Bookmerskan the pile of 40,000 volumes published arrushy in the United States

Cecaserally though a book mireculouely slips through this Calvinistic process of precessination. Becoming a commercial and iterary success through the oral of the writing and the northive

The South of a New Machine published quarky in the summer of 1981 (Allatch-Utile Brown, 153 65), is such a book its success, getes by word of mouth, then famed by the encommune of newsees: can succeed on thrown It signifies also that oclames took law occome of age

It also kind of theig you deem should remarks a duted likely loader about he unexpected success. His story about he unexpected success. His story about he removement of the success and about mercomparts by Data General and here the success her taken dyoung engineers known as the "Haking how engineers known as the "Haking how and her. Monoistics come across as maspectments is a James Benchmeet. The should be and his Maspace here executed and any and the Maspace here executed and the Maspace of the subscription revealed and the Maspace here executed and the Maspace here the subscription and the Maspace here executed and the Maspace here the subscription and the subscriptio

Ridder's project began innocently enough in the fall of 1978. He had been compiling lists of possible block subjects and ha went off to see his editor at Allartic-Lidio, Brown

Heye key doi: 10 you beckerful competers? The observations appared and then he gave Kickler the name of Data General is Tow West the ochewidsabe and leader of the Epgle computer project it was a strange goosgment for the Harvest-aducated Engleth maps, whose bedreguid was about it monitoriation 1 ddm1 even mare a basic knowledge of computers. But "I don't think that that's necessarily a disschantage. I was not writing for a complikativ computer-overtied audience.

The Hardy Boys had alteady complete the design of the new computer when Kidder amoud at Data Ganeral, in Weanborough. Matrixecturatific They were getting restly to start debugging. The namembars 'Bo Thad to seconstruct the design phere.

Trouble arose after eight months of observation: Apparently the fact that Kidder had gained the confidence of those who were creating the computer



Can a computer have a spulles well as a mod?

began to wony the corporation s executives, who feased that trade secrets might be divulged. Someone upstars got cold feet, and I had a lew go-rounds with the chart coursel, the rocals

Some people those warred to get more control over me than I thought I cauld persoly sumender: Although the lawyots overtually resolved the struction, Kidder rately equimed to the Data Control plant.

The dasced that developed bit wolf: Ridder and Data General has been forgotien in the wake of the book's appearance on national bast-solier lists The book's success is not hurting their business." He adde stryly

What emerges as a dominant theme throughout The Soul of a New Machine is a respect to the tradition of the evaluation of the control of the English that perconfident only by Rode, who takes complexible pride in the craft of the writing, but also by the Microlicids who assembled their computer at an extension page.

Crisis even refinited of the Massachusets Boy Purtans in the eventneeth cartary Twey basicouly operated their community for the common good beleving that the modeless or significant the modeless or significant the sately and survival of the tragite community that had been carefully conditioned under the wey of Cod Wear may not here acquired the

vestor may har here advanced in a year Poster professional post of the comparison of the comparison of the compares well with the workstratiship of an online in the the (Weter) was very good. Klobs: says entrussistically, Wehad this tithe comparition set up. He tailed about fining tills pospressive. It is comparison to the the only measure of the preventing philosophy. There was not online who of managel atom.

Enclanstanziable visibler remains optimistic abicuit fre future of American technology. We estimate the set of the have the Wittach Research Center These are perfect formidable as well. Therk of the stillions of ciclines people tost compression was on

# CONTINUUM

Edited by Dick Teres

## FIRST EARTH BATTALION

In the start Coloral an Charmonagered Demographic Calebrain thank-potential amounded to with enterpotency of the start hards potency of process motion of the start hards potency of process motion of the start of the start that the potency of process motion of the start of the Market potency of process motion of the start of the Market potency of the start of the start of the Market potency of the start of the start of the Market potency of the start of

His solution was the First Earth Battation—a mythical command unit that he designed as a model for the Army in the 1990s—whole purpose, according to Chairnon, would be to find alternatives to ournent modes of warfare and to the Army's an fludes should individue solutions.

Such concerns as planetary peace: global interdependence, ethical warfare, and ecology preclaminate in bartalion iterature (crorepts are drawn heavily from: Existen philosophiles and metaphysical deceptines. Bartalion members would be required to have strong sprinted and chilosophical commitments.

Whit Character proposes, arrong other deals, is a kind of stratage microtone. Buch how App ackiss would be highly express, retorate the decale-market wild possess superor metingeness, retorate decale-market wild wild weak mode duel prostiguage. They would be well aware of the possiprostiguage. They would be well aware of the possiwould be all be to other markets are in blased brain weak states.

Christonia sobiers wold be hugh vesatils, bearing sobi dearn update devices frage wolds bearing the metabolist offer methia ets mediation, yapa, and testing. Indexecting hypothening, payche contenucional and systematical munges, wold persone respect for the pacetal and we indexers. A solid personer respect for the pacetal and we find would be operated. Solitons any a solid set well bear would be pacetal and the pacetal and solid sets would be the pacetal and any solid set well bear to be a solid bear to be and the pacetal and any time. Would be pacetal and the pacetal and any time would be pacet in the pacetal and the pacetal sets of the pacetal and the pacetal sets of the pacetal and the pacetal sets of the pacetal and th The suppriment to basels the most identificating disations, naturing counterprinting muchan provider protecbox within or safe transmission of a first-basic counting, and proceing linear livers proceedings of basels. The same muchan we have a filled and the safe that a safe to basel to a safe to a filled structure of the safe to basel to a safe to protein it can be baseling on the same to a safe to basel can be also be able to baseling on the same to base can be also be able to baseling on the same to base can be also be able to baseling on the safe to base can be also be able to baseling on the safe to base the safe to base used on the safe to baseling on the basel of the safe to baseling on the safe to baseling on the baseling on the safe to base the safe to base used by the safe to baseling to baseling the safe to baseling the safe to baseling to baseling the safe to baseling the safe to baseling to baseling the safe to baseling the safe to baseling to baseling the safe to baseling the safe to baseling the safe to baseling the safe to baseling to baseling

Nother the First Dath Battakow will aver become a notice su uncritation: Chartering prograd has no default intendior or initizia, and although the Army about not condemic it the battakow so compression of the week glob filterowing than chart about it, the Sol hearther afforder in an informatification of the solution of the solution of the solution of the solution that are also although the solution of the solution of the regulation of the solution of the solution of the solution program decision. The formation is the solution of the regulation of the solution of the solution of the solution compared Distribution of the solution of

The clease may or may not be taken associatly. Some people therk bue finat Earth is a great cleas and some therk if a tarithe " says Tom Kelly deputy director of the Delta Force a think tark at the War Colleage, in Virginia. "Its hand to get a consensus."

But chariner and the supporters are optimistic. If the Army destination are policy that contains hope by the 1950s, [c will be based out of the country' he says. Charrier belows the based on could become a vasible out in the years of least as pressures to countre terrorism mount and as human-potential consociunasa becomes move indepresed.

Lited acceptance of Fire Earth concepts is not necessarily a read goal. The deas that can be tested and validated will be adopted. Kelly algo: The Army should look at the section in a holdate way. A sected officer Donnel Mex Matchine bases "The Firet Earth Battalion makes the Army look at fact for years from net." Any represent?" – MOVTHLE BITE?

## CONTINUUM

### SOVIET CHILL

Whenever if a loo hot or too cold there as these who blams the Russians. A hundisal years from new there could well be cause for complete According to a scientist as Western Michgan University, Sowit plane to divert scient them. for the North Polarice cap to mail. The results a larger cocap and a colder Arctic Octean. It is a logical conclasson: The style, that a colder Archic would cause a gaterally cooler Northein Hampphere and containly more variable weather.

None of this will happen overhight indeed, the initia



Sowing on the DB River. Sowiel place to divert water from the Op and Terrary rivers to areas to the south most cost the terrary rever

USSR could lower the temperature of the Northern Homsphere and after camate around the world

Biographie Philip Mickler reached this conclusion with the help of a flow chart that analysizes Source that is vert water from the Ob and finanzy were should be a source the regions in the sourch to regions in the sourch the regions in the sourch that we (exect about ns intrig at the Mississippin new flow of were to be Arcs, and to the Arctic Mickle area, and to the Arctic Mickle area, and source Arctic Mickle area, and source stages of the Sower plan call facts of devices of a more of cube hismakers of water a good which will include much repact But Michain willing, the lice more gran doces. The functions are well seems of the canges, the histories, but of the canges, histories, but of the balance the transmission balance the transmission water of getting more well plans are.

-Margaret Cottey

"Kids are always the city Autore the human race has "

### SNAKESCAM

Cover1 intrg" operators within rays average feedball isse-entrounnent agencess here-entrounnent agencess here-entrounnent agencess ferst und Wähle Servoe enoper meetigaten caled on here base andergene metigetes on he base were register of weldle amaggiere nithe United base According to agence oper tord over dividites amaggiere nithe United base According to agence agent Proc Louch. 27 sabased on

Fight and Wildle Service agains bortowed lectricopie from other law-inforcement experts who stalk drug armaggies made created congressmen, Leach says Operating through a phony allothfort boarteas called the Alsena Wildle Exchange in Georga, they laped humacitors, then made amost

In a year and a half Leach says the agency bought and sold needs 10 000 live anmais Hegally plucked

Isombre velidi Marry ween rava and exoci repletes classshed an endangenda pabes The Industry principal Anterioria aligator, and ween casa lawari The meetingator, discovered that make American species to al blackmarket funcie that fluqueshed to the tune of that 510 albomilinin a yet, including a boomlinin a yet, including a booming a berness in Juspe and Japan where ocliaciota pay meny times the domasto

Penahes for those amosteshave included thes of up to \$7,000 two years' probation and computing terms of public generators that may much work in wick the camservation. Federal agents are now ofting through owners that they any will net another 150 supports — which Laboration.

The atomic bomb is a paper light Temble to look at but not so strong as it

-Mac Tel Junz



Some shiely cherecters were share by indecely ampliant and as

### VIDEOTHERAPY

ated protectos to play parfors

At the Veterans Medical dementia according to per-

treated with a word game

### FUTURE FACES



-Mark Mean

- Albert Einstein



## CONTINUUM

## SECRET MILK

What s in your daily glass of milk? Water protein fats, sugges, warmins, and safts - plus a dash of mophine and a perch of bowne leukernal yeas

Dr. Jorge F. Ferrer and Inis colloagues at the University of Permaylvania School of Vetamary Medionia have sounded a warming about the virus, distocted in fitteh milit taken toon ordinary darv creet

It intracts more than 30 percent of dany cows in the United Shrines and causes leakernia in those enmarks that have a genetic prodisposition fort. The virus also rifects sheep and chimpentees in the laboratory incenabio inter hamain cells.

Whather appears to the virus in tark poses any health heard is not known. There is no proof, but one recent survey includes that in asses where there are a lot of intected cows there is a high incidence of acute lymthing landwide in humans.

Loss trastling is the presence of a morphinelike sub-Standa in dow and human mik. According to scentists at the Vielone Research Laboratome Research Carolina poople and cattle may ingest morphine while adding central plants letuce for us, and hay for owne

What it does a anyoners guess. The amount is they just a traction of the dose gwen as a parkiller One is executed theorizes that the morphile acts like the enkeptions (substances in the one one brain and Intestinal cells that serve as natural paintediers) and may help explain why so much mile is drunk by in sommacs.

- Carol A Johmann

to treat heart attack victims more excently doctors die coverad that it is also valuable in rewiring those briefly exposed to electric shock. The tochnique was en-



Mill deniers may have mason to generol. Boxie testioners with has been found in covid mill — along with a pinch of morphice.

### LIGHTNING RECOVERY

Lightning kills up to 300 Americans ayear Inithe tirst hav secondulathin people aro struck, their heartbear and breetning stop, leading bystenders to assume they're already dead. Within these more for the we

But according to meteonoigout Dennis Thomono of Pennisylvana State Univeristy in University Park, personish to je kjörting dan nove be sited with cardiopulmontary misuacitation (DPR), a manual tochnique in which presure applied to the driad instrume circulation and mouth-oronal-instruction. Isoft mouth-oronal-instructation metatains regionation. Among to ignoring victors Thomson says, because, whe electric shock victors, they suffer a disruption of the electric impufees running through the brain and the head.

Thomson advises that CPR allocid be performed by a person transd in the lectinique until the lightining wothil can be taken to a medical center

- Madeleine Lebwohl

### ANCIENT RECORDINGS

Sounds that are many thousands of years old, perfagor even turnan voices may be recorded in the processor ancient poteny and glass artifacts, a "promopeckatroan and amateur auchaecinget belevers

Dr Heler Lawn, recopnized for nie work on a noseni murmass, is trying to ropkly. Wie chance sourch the Trinke may have been captured on pots verses, and plaiss from lamer favitations. If someon should on a potter s wheel, the sound ocul d up will wheel, the sound ocul up will wheel on potent and on the versel. Dr. Deven

At the Lewin absorption to beying the polytome intercontinuation of the second second month drives. They wention notify the second second second these to using a laser can have been using a laser can have these must alser can have becaused as such as those of the human vacas. We we have the using a such as those of the human vacas. We we have the using any second second becaused as such as those of the human vacas. We we have the using the second second becaused as we have a second becaused as a second because



try to prove a point. We re going to engrave a copper plate and see, experimentally whether sounds can be captured in this way

Europe are also using lasers in an attempt to recepture the fragments of acound that may be locked in the grooves of ancert antifacte. Leven admits that the whole idea sounds like science fution. "Scime of my hends thekt'm well put the outles "outly".

- Alan Maurer

### COMPUTERIZED M.D.

This Ax in the inferencecore work, and the patienting off under heavy ametitiesis operation. Buddenly the alignme begin to sum the term based a based on the based of the based of presence of a subperg. The values the right of the based of presence of the based of the patient has sufficient to based of the based of

The access is all too tamisar in the medical world. But now a swim of physicians and ongoiners at Panasataie Reflectoring Institute (RP), in Too, New York is working on a solution a method auto plot a computer that not enty monitors a patient's what functions but also directly controls those functions, with teapritiders and druces.

"The vital signs of a patent under intensive care itsust be kept within very narrow ranges for survival." any a meathesidiogal Roo Roy who heads the PPI effort. There are no many wallables to keep track of in fact that many interestivecare units already rely on computers to analyze all the data community in Physicians ups the numbers provided by the computer to decide

8.8 Despite to Despite the computer and the pater, the RPI ware is build not part of the RPI ware is build and the result of the result and condons." starting with extent to the result of the computer activity despite the result of the computer program is already developed most of the computer program is already developed most of the computer program is already developed and other the result of the computer is already developed and other the result of the computer is already developed and other the result of the project of a control comtent of the computer is already developed other the result of the other the result of the other the result of t A private km has also contracted with the team to develop a similar autopict for monitoring human patients — Robert Voori



Motelon Scon 4 will be lunned relic & modicul kutopilot



Appropriate tailors of the Autors will device you by your evelopil

outer that collasas the infornation and, if anything is limbas instructs a system of oumps and valves to adnumster the appropriate invige.

his is just the beginning.

### EYEDENTITY

Someday you may be able to withdraw your money from an automatic taker machine by staning at it. This sort of the front art is unit one of the uses for the EyeDentifyer, an automatic identification machine invented by Robert B Hill, of Patrand, Oseoon

Hill had been voices pro tramerchisen capital elevent in mains that each proson mains a unsup pattern of mains a unsup pattern of mains of the set of the set of set of the set of the set of the set of set of the set of the set of the set of set of the set of the set of the set of set of the set of the set of the set of set of the set of the set of the set of set of the set of the set of the set of set of the set of the set of the set of set of the set of the set of the set of the set of set of the set of the set of the set of the set of set of the s

Hill range that his devoce will user in the age of aubonato periodral identificaperiodral devoce and a second concelector control control, and control accores for high accuration and a second the bases or in success-power facilities, and if has sheredy cought the option by societifyer is highly now the SysCertefyer is built HII's company. SysCent Hy III, plans to market is the year. — Process Hotam

"You can jurge your age by the amount of pain you feel when you come in contect with a new idea

## CONTINUUM

### BETTER PREGNANCY TEST

Most women are all unsware of a new blood lest that detects pregnancy and



A new bibbd tratimey abon aug plant inschoonal unmalumm

that monitors the health of an entaryo within just eight dave of conception

Gr Judit Neuralisti of Bahra Urwards conjensity developed he lest to monthe banks of production region (PGC) a homenes have produced danne program have process indicator of here prosense of Hox Cales a neuroperatory. That her consttions of the prostence of Hox Cales a mercy process indicator of here you have been and the production of the transmission in HOS top last a mosed meetratical production and even then provided in the HOS top last a mode and even then provided in the host of the health

Because the placenta produces less pregnancy homore in materials when an embryo is unheality or poorly attached, Dr Vebualitis explanns, the new gets is a cruated index for physicalitis who heat women who are in disarger of heaving a macanisa who had women about an interact of the disclarus in the carly detection of the life threasoning ectopic pregnancy (brief which the ontory of behave outside the otimus, usually in a fraidopain back)

- Pecharo Levine

### NEGATIVE IONS

An foxibial with hogstwo one simulated brain growth and affected the brain otherssity of ratis in a University of California study. The experiment also revealed a strange new aspect of rat behavior

In the initial size by combacted by Mean Diamond and Albert Kunger who bandaid the unrealistic size of the loor Research Laboraloy the contrast source in the source sectors to an operating source to the source of the source that Paces of percent heaves the Paces of the response to associated and the source the percent of the response to associated and the source the source source in the source in the source to associated and the source the source source in the source in the source the source source in the source the source in the source the source

Negative-on generators are popular products — told to people with the class that increated negative-ons can provide a sense of well-

An unexpected side effect of the study resulted because metal cages cannot be used in ion experiments So special see through Lucity cages were used, grang the researchers a new plenges of rat ball-laver Motion rats piled free babies in a comer below exploring the caps. "Dat mond says. We dinever seen that before."

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## GOATS IN SPACE

In outer space, man's best mend may be & goal

According to computer simulations made by Connell University instaarthers work ing under a NARA priori. goats on increasively by wathing and provide actionate by wathing and provide actionate ingressing advantant flood. The key exit advantant flood in the site into goat's versifier advantach — a cover part and backed by in coverpansies that Devide down all kinds of weeks

Astronauts can teed goets sludge the woody parts of plants, and other materials that people find unpalatable Shuke says. The revences increases have option to the goal's stormach will broas down these materials into feces and sizes. Interaction had into a mechanical tradment unit, will be lar assart for process than this organial refuse. The teatment unit then will content unit then will contwirt the goal a secreta into for their for deats on the secretarial.

With a post shoard Shule says the waste unit could be scaled down by most than half gwatty reducing the size of the speccostfl Thes would save mittors of dollars in fuel and other costs

The posts will contribut homen passworps writawing nothing, consuming only the watere humanic connot set Measure they will provide misk and mass for the crew lessening the amount of load misk and mass for the crew part responsing to a strong part responsing the strong base part responsing to a strong part responsing to a strong part set based on the strain them environed, but an exclusion them environed, but an exclusion them environed, but an exclusion them environed. Strong them



In space, no are own hear you blook. The goal a previously sporule and islan digesion make of the perfect estroney.

### TV CENSUS



### MATING GAME



-Washiny Noh Low

## CONTINUUM

### **CAFFEINE CONFUSION**

Heavy drinkers often signal cup of collide to sober up But recent experimental, carned out at Hull University in England, suggest coffee may towalthe opposite efforts precess the brain, while catfeire stimulates it. So the downers thing to say is that they carliest each other out However it appears that together they ownow and the brain and cause con-



Collina is supported to help you notive up out it doesn't

Sect. Testa on eight volunteer chinkers showed that their metakes doubled when they also incested officine.

According to Dr. Genthey Lone, acids Notantion disaris, the equivalent of hur source drivers and Pien The equivation output of two cups of office When they attempted a series of teach, poesang buttoos in response to light agnis, there coactions were allower than those of subjects who drain colv votike

Dr Lowe consedes his sample was amail, but he plans to conduct hurther exparaments with 88 paraons under a warety of conditions. Asked why people be lawe that a cup of black colfee will help them sober up Lowe stigt, 'Alcohol de-

### LISTENING TO BONES

A numer stambles and bests an arkie his doctor inquest bones. That after noon when be numer athreas to the track, his arkie breaks. The perplement optyscam's canculation. The anide probably had a haine fracture the list place, one so thy that the X-by doctor ank is no.

There are it asserts can be fixed as to bore damage that X rays simply overlask But now a biochadical engenesis at Rensettaer Polytechnic Institute in Troy, New York, has conte up with a coubon an extraordinanty process denotes that Galaptoose denotes that Galapto high frequency sound waves passed through them According to the inventor, Hyo Sub Yoon broken bones will absorb high-frequency sound waves the mare 1920ty than whole bones will

The expected log or trager toom explains a place of a a collar of Phys. Not. 24, 500 (2014). They hop, both and a second second second anna expansion of the second anna expansion of the second anna explanation of the second anna explanation of the second and explanation of the second and explanation of the second explanation of the second field second and the second correspond to the second second correspond to the second second field second to the second correspond to the second second field second to the second second field second to the second second correspond to the second second field second second second second correspond to the second second field second second second second second field second second second second second field second second second second second second field second second second second second field second second second second second second second second field second second second second second second second second field second second second second second second second second field second second second second second second second second field second second second second second second second second second field second seco

According to Yoon Ins.

new method is superior to the X-ray since it can detect much is quase - microhace hates, or thry gaps - deep intered the bone hates - Unlaw X-rays, sound doesn't gat scan or photograph the surface of a bone. "Non asys - It pandrates the bore base and can seen disked angle significant for

Lef the great world spin forever/Down the intentig grooves of change — Alfred Lord Tennyro

Ours /c an age which is source of machines that

proud of machines that think, and suspicious of any man who tries to Missional Missional Income



The key to detecting harden fractures may not be X rays or other issues memory but two-fractures sound waves arread at bones.



Nicholas Negroponte (below) and other wizards are turning TV sets into dutiful genies. Watch: It's done with

## MAGIC MIRRORS BY DAVID SANDWAN AND CURREY WILLIAMS IN



A mapic minner, whether of the faily-table or the failure voletic capits to have at least some of the fateware grantscherofics. It houses both the to have fateware the memory of the market of the source of the source source and the source of prime. The fateware fateware the source of the source of the source prime. The fateware fateware the source of the source of the source prime. The fateware fateware the source of the source of the source prime fateware the source of the source of the source of the source of prime. The fateware fateware the source of the source of the source of prime fateware the source of the source is the source of the source of the faceware the source of the source is the source of the source of the source of the faceware of the source is the source of the source of

PHOTOGRAPHS BY DAN MCCOY

## They're sculpting screens into the shapes of faces, which will be able to grin, talk, scowl, and

the last to admit it pubicly, but his meanrch had advance learned an the direction of magic mettordom And some by his Architecture Ma criteria for que ancier than an a for list it's p make it through the ror, it will be his will see, grinning on the back of the clock.

is amail group winasts on their way to tic fat are making tele sets that respond in







ing down the street al looking through the sheeld of an auto tum nghi, you press of the screen H w will finals nd you'll weer to right at the next into soction. Push the now on the laft edge "stop" and the video tea wil hall

The technologycalled movio mapscan transport you It blo to any rea the Every but the street is to antalism. Press sage of a h rolo, and the se tell you will reen-what e is and we in you with Sebook info

rity to a verwer's presence. They're building electronic tour or that lead people, with agint and sound, through the streets howing sculpting accounts into the shapes of fuces, which will give ed secrets. They re pro eves for helicopter priots who skim over in eetcos on a top ity rach Re unable to talk or write. They re melting fantasy rid, or sublic gosture of any person watching &

You sit down before a 19" TV acreen in Negroporte's "terminal garders," a room in which TV sets approar to be growing, logether with a few trees. The color picture on your set has some of the Interview of the second potential of the second of the second of the number of the second se

some o, converte the sampel for "forward." You'll and vouriall roll-

will cut to a facado, followed by a morrage of p some contemporary and some from past decades. You control sace of the tour by touching symbols on the screen. No In a drawing room, go back to the bedroom you just saw, or explore

The first time the lab set out to bring Arpen alive on the sci the pb required 16 people with Bolex carteries, probing every look two po hours.) They bend overy intersection, the extension hours the rooms in the houses. They collected hundrade of his photographs. And they entered all of the photos into the c equivalent of two monstrous photo alourns. Item 12" vid each holding the same data, each capit bin of containing up t oove, efi no into a sensor and "reading" the burrps (Asper

### FICTION

"God is dead, God is dead. . Perdition/ When God dies, you'll know it." — Confessions of St. Argentine

# PETRA

BY GREG BEAR

s near as I can discover wite to keep their bodios from falllight deny that magic was set ine that time, if you will loose, or even that the Allemate When every delusion became had paned supporte power But as real as solid matter Blanding few people could deny that God, pain farring blood, bonus braskas such, had died

All the tanges of our price-great like liquid, the sky raining amber unearse fell anart, the aps tilled. Crowds in the abiliting sheets cosmic doors awing shift and gathering at intersections, not the rules of geistance lost their knowing what to do, trapped by foundations I have heard wise their cent schotarice. Their week men speek of the slow decline. mindle could not grab hold. And have beend them speculate on the where human thought pave way. reasons, the process. Where gradually the ancient order of nahuman throught were strong such ty's sudden quelying was reduced its own way of adapting. People to a tomor Where human thought wonched, horshold as only blocks completely evaluated by chaos to slop the melantorphosis, their With the passing of God's unananized menality only conwatchful gaze, hurtankind had to fused things further. With the Arst reach out and grab hold of the faint suspecion that they had all unawiera taboc of the world, opne mad, the first crack in their

Mortdieu occurred sav- ing apart with the end of the useful enty-seven years ago constants-became the only Learned some of pure ophrane foroain the chaos image

his coursed with as own locid. Those conscious beings left all-too-weak reserves of will they alive-those who had had the projected their rightmakes Prod-

PAINTING BY JOSE HEBNANDEZ



rgal cross perchad atop the trees that had once been buildings. Pigs ran through the streets on their hind legal pawarent rusining to become soil behind them. The forest prevaled over most of the city.

Legend test it that it was the archemistentrailst Jansard — crucitier of the beloved St. Argentste — who realizing his error, decovered that mind and thought could calm the foaming see of reality.

Most humans were entrety too imitional to begin with Whole nations vanished or ware turned into incomprehensible whitpools of misery and depravity

It is sed that certain unversities itotaies and museums survived, but to the day we have little contact with them

this neighborhood however, had waakented server company before Monthey sisuffered Survivors-tiergy and staff, worvisions dreamed wretched dreams. They and ballova, in a universe lacking any other loath for (so the coarser versions of the tale bon took place. No definite gestation the store saids and other human ficares

This anugly son of seven widdless there is no denying it is don't remember my mother its possible she abandoned me shortly after my birth Mans frantikely after so shad My tather - ugly, beaked half-winged thing, if he resembles has son-1 have mean week.

The manner my memory was born is very clear to me. If we's about thirty wears ago by the senging of the wheel though I'm sure I weld many years before that years lost to me. I squated behind thick doty curture in a vehibule and latended a pract working Scripture to a gaggle of 20 one. faid thicken Tutt was on the ground toor and have in grow danger, the people of pure light looked abort, which as abort motions. But have write taking the risk in them is was able to shall a Pather and larger to take. The performance is the second to the them is could to dense the second to the first is could to dense the dense write only the Cathertal I soft have my doubt. I con look out is they tound writes on the saids of my could is soft how motion. The Cathertal and there that surround the Cathertal I and the the that surround the Cathertal I and the the dense writes on the cathertal I and the the dense writes on the cathertal I.

No matter lineed butilimino scholar What concerns the is recent heatory

I am small—barely three English teet tail—and I can run quickly through most of the Indian passage-assign. This last in the observe-without athracting attention. I may be the only objective historian in this whole shurdhan

Like any historian however I have my sworke subjects within the greater whole

I was almost convered by the Bishop's masked troops And when I tried one escape route, they wated at a crucial spot in the stairs, and I was forced back \*

Naturally enough they are events in which played an important role. If you prefer tratery in which the historian is not involved then look to the records of larger communities.

At the time my history begins the chidian of stone and fileth were dill searching the time stone Crinit. Those of us barn of the union of the stone saints and gagoytes with the beneated runs thought our selvation lay in the great stone Cellane who came to the as all the chier statues had

Of smaller import wets the secret assonations behaves if the Sakrog's displayer and a young man of stone and firsh. Such assignations were torbudden even between those of pury fields belaves thay were of ocurse unmanted, then double sin was intereding to me.

Here name was Constantia and the was fourteen stended of limit, brown of here mature of becam. Here eyes canned the staped app. His name was Consus and her was fifteen I don't small his process features but here was handborne encough and deterous. He could climit through the sostfoldmay almost as quarkly as I (that speed here).

taking weight made one of my heapent make one file weightig to solar another book. They were in thackes using weightig heart active and the heart of a thirty of heart active is a solar than the solar of solar memory period. And Constitute was the daugents of the Binton humanit is usaue persistiment is Dative for solar backhard benefitied. Solar and the backhard benefits and a dative file the backhard bene take was a available of the solar of the take was a solar that of the solar the take was a solar that of the solar the take was a solar that of the solar that the sola

Have you ever leased a man before?"

709

My norther " Sho launho

"And?" His voice was sharper; he might

A france memory Junes."

Where a te?

On he vanished on a wood-gathering

Dn And he lossed her agen I'm a historian not a voyaur, so'l discribitly hole than lowening of their passion. If Corvus hed had any sonse, he would tave needed in the compared and never informed But her wen snaked and continued to see her desplite themail. This wesi tayally lown faithuiness and it was rate. It factoristed me.

Interespatibility of the shart and a ratic day and loading day the the bath state. The the bath seek and the shart state is the the bath seeks and the shart shart the the hashes all the bath of each table the the shart seeks and the shart shart table the shart seeks and the shart shart shart the shart shart shart table the these is shart shart the shart shart

After spring on one of the disordaries and carrier to introduce the term of the endcoper or part Approx the term of the endtoper or part Approx the term of the endtoper or part Approx the term of term

it was the Grant who selected me from

the uply hordes when he saw me with a

He looked up as I came in I sat on a box.

His readiled "I-and one other-were the name of Montdieru he said I am-



## Why It's Such A Rare Bird

Wild Turkeys are masters of camouflage and evasion. A large flock of birds will lie quietly within yards of a man passing through the forest, and never be seen. The Wild Turkey is truly a native bird, unique to America. And it is the unique symbol of the greatest native whiskey in America-Wild Turkey.

A mountain peak offers a dazzling peek at the cosmos



HAWAIIAN EYES

BY GENE O'ROURKE

heve bund themselves a paradase on Earth. There utops is a boto Maure Kee, on the eard of Heiman where half a dozen where bote-watery dome do the terms, Nau-like bestell Thanks to as althold of 13 756 feet. a berrigh clamate and assocy-like base far serviced from bight only

PHOTOGRAPHS BY DOUGLAS KIRKLAND







GFor astronomers, Mauna Kea's summit is heaven on Earth 9



Ingette the excess long englished coversel and some englished coversel and some englished prasted structure of close coversel and the coversel and the coversel and the coversel and the englished coversel and the Market of the coversel and the englished coversel and the englished coversel and the englished coversel and the englished the englished and the coverse and the englished the englished and the englished the englished the englished the englished and the englishe

### A new study reveals the strangest evidence yet for the mysterious near-death experience

# RECOLLECTIONS OF DEATH

In his me book, excepted here, correlogies Marine B. Sobor, of Energy Linnersky mid her Massi Waccoust Anteria ander loggiest ware taking a sobert fordy reprove meetings on the mass-basin exception of the Landwork of the coperators on HBE A Landwork of the coperators of HBE A Landwork of the coperator of the the coperator of control theory provides of the coperator contacts (nother the coperator of the coperator contacts) (nother provides the contact of the coperator of the the coperator of the coperator contacts) (nother provides the contact of the coperator contacts) (nother provides the contact of the coperator coperator of the coperator of the coperator of the coperator contacts) (nother provides the contact of the coperator coperator of the c

It was the maximize of June 5, 1965, about five or clock We could pretty much ture title Verticen in the first land which must have been about three hordered level many. They toget where the level many. They toget where level interactions gets the status level interactions gets the finance tests the right balances may three more than and of (a) position any before the must and registration and where and the test and registration and where the status of the status of the addition and the test and the status many the status of the status tests and the status of the sta

Their them about it uner it approves to be a rought of hourse have. I round use then VC (Vertexce) 1 round new the pay that public way book net? round new the next of house around picking ap reactions thenge. They were roking regist. I have a line if were kaching right down and in picking sight down and its on the .

RAINTING Y THEIR HELINW

A yeap, year live I was toolway at a maximiling of team Nori I. Caudal sear my face a noricould sear my arm I was pendly well burgs in year (here was a work of yeah) and the place. I could sear well of yeah so that there on hum a back and was and the yeah of the place I and could not more it was disublished in the place could not be signify any fact in the back, I. (which of the him to gave my and back the there are back and back the origin back to the search of the him to gave the back to the search of the search of the back to the search of the search of the back to the search of the search of the back to the search of the search of the back to the search of t

Let a doubt four or fine is the elements when you rear menges called 2 - could have them and the elements of the set and the them and the letter is a set of the set and them and the letter is a set of the set of the doubt is the particular set as the them and and the set of the set of the set of the half part is as an observed in the method with the set of the set of the set of the half part is as an observed in the method with the set of the set of the set of the half part is as an observed in the set of the half part is as an observed in the set of the half part is as an observed in the set of half part is as an observed in the set of half part is and the set of the set of the half of the set of the set

At the point Loss track of when wes laiing place. They apparently took min to another room and severed my hand and may be a feer mesules after that the chaptien was in these saying menything was going to be all right. Evias no longer outside losiing all the wheten 1 was and of it.

Due the certures virtual experiences have been roossuited by policy who had almost thad. Some have reported invertige frough a thick knows theread a satisfant light these emaging to thid a lowely limocape and the polish of long depended lowel for physical location when realizing partners because to our physical in features partners around to our physical in features persisten therea. Contrast bases

In my own practice of card using over the profit twy valies. I have conducted an optimsive invostigation mit the expensences of those who carries write these to data. Many of these papelse vedimical cardiac amator one is of segregating oneser. Incolled a some of segregating oneser to call the some of segregating oneser that tool made dream Some considered bits experience to be a providigit girripse of another math of explore.

### BEGINNINGS

I started my exploration of what I call the near death expensions in 1976, while compleang my first, year of catchology at the

Copyright (\$ 1982 by Allchard Secon: Alignment by participant of Harper and Row Pobleters Joc. From the book Recollections of Death of Death University of Porcea in Gamesele Arthree my will avoid a biologiet or a local Nethodia church. Che Banday moting consider a struct. Che Banday moting consideration at the university presentation and additional to expensive presentation and additional sectors (sector book. Life Alter Later by Chargenoid Moody doal with the uppersones reported by pooch with and come close to death. Other themthan of the close to death. Other them and the close to be close to death. The sector of the close to death. Other them and the presentation and data and the president mer data option the kindset thing i could say with "loosh balave id."

Lakar that week Sarah phoned me She had accepted an invitation to present Moody's book to a churchwide audience and wanted me to participate in the program as a medical consultant. Somewhal nulcentrify i acced

To add subblance to the talk. Sarsh and I decided to conduct a brief survey of Javanal of our own hospital and patients who had survived a medical cross similar to

 In the initial slages of the expensione people perceived themselves to be looking down at their body from a vantege point that was usually described as ceiling height 3

there described in Dr. Moody's book. We would all term whether they had had any expensions while uncontactual and near data. France had had such an expension (as if help expected) then at least would be our autherce that within allold.

The three patcher, applications of all a assessing to the model rescale. In other three designed to earlier designed and the clogest more meaning with calculation of closes, and an lead a weighty designed three designed to the events of the close three three designed and the second to the closest more three designed to the second more three designed three three designed and close the three three designed and close the three designed to the second more three designed three three designed three three designed three designed to the three three the three designed three thre

Early the next day I told Sarah what I had found out. She had similar news to re port - hors from applient with chronic liver and kichwe tellum. We table-recorded thate accounts for our precentation and were enthus relacably received

One there are set to possible the set of the

A further floaging absolution rule. Note: the second seco

To enseer my questions I would have to contact a assemble shaft, involved with Salah my principal objectors to Moody a work, and hom this ve made planes for our membragenen. We would will decided acresses all puechs also were meridary stabile melkinoamtoismanuruweit actificial actificial shaft and the more decided and will deline than consol physicals will be anappeedid be read in stream which be also and when unless metodal attention was provided without deline.

Finding patients who had survived a medical crass would be a simple matter for both Sarah and me. She had daily contact with patients in the kidney dailyse unit constant patients in the kidney dailyse unit constant patients.



The woman who shook the scientific world. with her discovery of the opiate receptor now challenges our beliefs about emotions, behavior, and sex

## INTERVIEW



stors worder through a interaction follow-dish correctors to an years later Souther's standards, jobo Hughes and Herus Kostera child's drawing signed VANCISA posted on the door Next door rate slumber or scratch in their capes, daudearming of being unencumbered by electrodes syanges and imper-National Instatute of Mental Health (NIMH) in Bethesda, Mandend the busitess is the mind, sloces of contex, eplow with chemicals that if you head Candace Pert contain ell our joys and sorrows In 1973, when Perl was a twenty-sk-year-old pharmecology graduate student, working under Dr Solomon Snyder at Johns Hopkins University in Baltimore, she startled the neuroscience. offerriscal bits into a brein cell like a key in a lock. The fact that the brein possesses receptors for morphine and heroin supposted

era in neuroscience was born

The discovery of the opyle inceptor beapad ratiant renown on Pierl and Snyder Then, in 1978, Snyder, Hughes, and Kosteritz received the Lasker Award, commonly considered to be a steppro-stope in the Nobel Poze. Candace Pert did not. But ahe did troversy over her exclusion from the award seeped out of the hutbed chambers of dependence research into the aintella of public opinion. The young graduate student's name began reverberating even in the sacred editorial pages of Science, the cylicsue of anory opts in lab opais. The opinion of meny informed

Today, still rejustant to talk about the Lasker Award controversy. Peri has only cottlat words for her former mentor. If the opeale that i must also produce is non-version of these substances and increator was a cause which is the disable discuss her current work on the Valuer nearborn - which the flippenty referse to the Hoffments - Boote respective of the synapsic current and the lippenty referse to the synapsic current and the synapsic current and the synapsic current respective patterns. Stormad like so many storm and the synapsic current and the synapsic current and the synapsic current patterns. The synapsic current current synapsic current current synapsic current synapsic current synapsic current synapsic current synapsic current synapsic current in the synapsic current current synapsic current synapsic current current synapsic c

A graduate of Bryn Mare College, white Pin D from Johns Hoppins, Pin The works at the Nanceul Institute of Merital Health (MMH), right met door to here instituted (MMH), right met door to here instituted backharistity domailater and her my says choice graduater in the ways in the couple here with their bac dihidra. Evan fifteen diverses as on once of Helmalatin tree-lined streets. A first divid is scobolida core. Piert was inferenced of Johns to come act, Piert was inferenced of Johns to come be with their bac divides to come of the scott Piert was inferenced of Johns to come of the scott piert of the scott piert of the scott piert of the scott piert and the scott piert and

Deerer, Some people have compared the present septicision in neuroscience to the spring of the atom Do you there we no on the water of a people present present prom

Part Yao These used to be two systems o inconjedge. hard screene—ohernafry pryveas tacyphysics—on the one hand and on the othet, a system of inconfedge that included strategy psychology and psychiatry. And now ifs as it a bighting to be had connected the two. Its all one system of the service area.

Behavior and such a repetitional and in the annuals terminoconcurate of electrons tensing hom one wanto to ability was with execute grant one wanto to ability up neurochemical testa — his brain or programment and the second of the brain cross degrams are well people called inclusionomisms, these testing contentions and the program and the second of the brain of the testing and the wing of the testing which neurons the wing of the testing which neurons provide the neuroscient exolution program is a well testing which neurons the neurons and the testing which neurons the neuronscient end which testing other neuroscient and which testing other neuroscient and which testing other neuroscient and the second the second the neuroscient and the second the neuroscient and the second the second the second the second testing and testing

There is no clouts in my mind that does any - and i doin thinking duy is of this there away - we'll be able to make is odd-codd may of the taxes. A color routed wing disgram, with blue for one neurochemical red for another and to on - their its in intersement is another. Wo'll be able to doscrube the parent in matternation provided physical routedemination in matternation provided physical routedemination of declaract forms, with the second on other sections in minst.

Owny: Will such a degram account for con-

Pert No. It won't Just as a person could totally understand a miesten with could taking apart and put cognition apart — but understand nothing about electromagnetic ractation, we could study the brain as no. ONA

input-output sensory input bahavior output. We make maps, but we should never contruss the map with the territory to stopped allowing the brain as the end of the ting the society of an amplifier a liftle, with intergregers for collective mainly

Great in The Doors of Perception, the book his wolde about his mescaline expensions. Adous Hudyy Interced that the brain and the rerevus system function as a reducing water or the that evaluate us to reperence only a factor of waity is brain measure to waits the induce it theorem?

Part: bits Huxdry's mind would be blown by march savery. Our bits and darkes how much savery is not in Reading in the a manback and the electromagnetic apactum. Taken organism has worked so as to be able to be more selection and the savery and the site of the source apactum bits have not worked on naily Human can be not all of the coor spectrum bithave not all all. They can see up through the site of the source apactum bits have not all all. They can see up through the site of the source apactum bits have not all all.

There is no doubt in my mind that one day we'll describe the brain perfectly in mathematical, physical, neurochemical, and electrical terms, with all the rigor of a differential equation.

several disable of purple. We carried in the orderphine cur maker's epistemic and the orderphine cur maker's epistemic and the orderphine cur maker's epistemic and apalase asked with the incoming informabion from every tensole – ought. Theshing press takes include the and blocks some of hem packed together and blocks and the world tolde time and philosophies for the world tolde time and philosophies there somed terrespecty and blocks there outsomed terrespecty is wearon of the world is someheemic different.

Denv While were on the subject of the natural opietre lei me ank you about the decovery of the opiale receiptor in 1973 You were a graduate student but yours was the fret nerve on the paper you published wet Science Snyter So I assume you clid the actual the work.

The buyer too the a graduate student in Dr Snytter Statecrobity at Hopkins. He was my meeting and Thew nathing but the fondeat tealings for him. He is a britlant and wondeful toacher. The importance of our work is that the capital receiptor was the first in captor even found in the brain But. The captor even found in the brain But. The

or forly different ecositors in the brain that, developed My method wars out a exchange i developed My method wars out a redouct the compounds to brain solve and measured my much of various indefinities during the sales to warses that tobuds. We found the sales to whole the "advocative quality addrets. And their led to the discovery in 10% for Highest and Kotolinity" of our nor-

Otvisi Then Snyder Hughas and Kosleritz were swarded the Lasker Award. Why were you excluded when you obvisibly did the remind work?

Pert That was a long time ago and in their you the truth in sockof timing asked about the Lakser Award as if I were this grumbing lady access when a consisting a bits sonce time. I their than is other research as a large some time to a social search as a large some time to a social than the core of available indury which is the search for truth. That's the averimptiria cent of a

Others 528 school you write to the Mary Lankar committee declining your millation of the award open many And an informal that you do not among hold your tongue initia expected of woman groutable school that and others law down in the scentratio learning.

Part Tais, I record to Mary Lawler at the immediate because I wanned to a publick on the freed to because in wanned to publick on the freed to the second second to the second second second tais and the second second second second tais and the second second second second the second second second second second by these resource second second second built (them; there is because the second second built (them; them is because them and the terms them is because them built (them; them is because them second the terms are them built (them; them is because them built (them; them is because them) them is the because them are the terms and them is the second terms and the terms are them are the terms and the terms are them are the terms and the terms are the second terms and the terms are them are the terms and the terms are the second terms and the second terms are the terms are the second term

Anitizen worman in sochool gote process means loan analyzing the created point at exclusion in that they soon got those though participations, which you must these to patigeness therefore was also control of the the distribution of the sound social distribution of the creation social context of the social bases status at the level of consort answer worman (Respective assessments are PMO at the social patient and and the social the point was the the social patient and the point was the the social patient and the point was the the social patient and the point was the the social time that and point was the the social patient and the point was the the social patient and the social point was the the social patient and the social point was the the social patient and the social point was the the social patient and the social point was the the social patient and the social point and the social patient and the social patient and the social patient and patients where the social point and the social patient and the social patient and the social patient and patient and the social patient and the social patient and patients where the social patient and the social patient and patient and the social patient and

Orms' It has been said that women hold themselves back by trying to please. Is that a sambling block for women specials?

Pert Women scientists are women. Studiss show that there's some hand winnig in that department, for example, women sindle more than main do. I ve observed it movail as meetings in terms situations. when important theoretical issues are being discussed women smile a lot when they make their statements

Gener. Do you believe that all our believe our - even follow remotions: such as a thraight our somethic lower - can be instead to belog isot phranemask? E. O Wears and other sociobiologist propose for example that integrad our bears into righty ethicad such will instrumers and that a before, we will will instrumers and that as before, were the notifiest semaners is only survival instinct

Per Well, many psychologists beleve that there are only a free basic claves accherigar thesi, and accape from pain. They theore that comething more complex say, the deams to discover a sup-life cancer can be traced basic to a series of environment performance of the series of environment stocked your head and talked to you about medicane.

Once How does brien chamistry work into the scheme?

Perf. Well, a year were despring in stock writes to ask rich the fature edit survey as Good was when he was despring human beings, you dwell to go had behavior had wask sinus the scrivial of het posterior. The basis of cating-would be naturally instructing. Between is modiftable and it according to the acceptation of plan or pleasare purporting to rewall be becomed in the balan.

We retaining to understands that encouble the straining to understands of the strain operation of under a list boot while encoused apartial care a permethy in the interior sysbest of the strain of the straining the strain terms of the list of the straining the strain terms of the list of the straining the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation of the strain of the strain of the strain operation operation of the strain operation of the strain operation operation operation operation operation of the strain operation of the strain operation operation operation operation operation operations of the strain operation operation operation operation operation operations of the strain operation operation operation operation operations of the strain operation operation operation operations operat

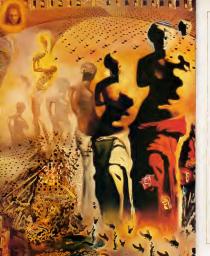
Owny! Do all animals have these reward and purchment chemicals?

and bookday

Pert'Yes Endorphins are being studied in the leech insects have endorphins and many of the other neurophiembals that regulate our own emotional circuitry These evidence that even uncefular or gatismic hose chemicals

The always understood theoretically about the safety of the—that we real composed of DNA molecules and protein But the inwar exponenced that understanding as directly as I have in the last fee years the been looking through the microscope convences were the

## The Crown Jewel of England.





## SALVADOR DALI

## BY M S KAPLAN

The phty difference between no and a madeiser says Belvador Dali. Is that this not mad. No other mile has a largerity inside/of his material backmology. These others photographic Dali spotodios in fine deal a deviation taken and spottable. Dali spotodiose in fine deal a deviation taken dobbies do syntable di tra fears and farstesse. Probably his most substand obsection of the contration of the Calil wheel back and body deal deal wheely and page.





Is granting. Dail is provident for trazmant/so had already reached logindary injugations by the lane harmed in New Mok Gilyin 1838. Dictated reportant taxad Dail to his bertis, where they locard him with shings connecting the langes with its grantings lest connect seed litters. It is codecision of soft, melling images beingings to the game of Daidy Logings of Mic Jerrorg, Hyper (already ware an instart sensition on Mi American office – despte and provide service). The during of the purpose the left behind. Data claims to sense their being models for models is excited to the and where the excited the intervent purposed to the term of the provided to the provided the term of term of the term of term





participant whose Vagnetis distribution and recording the intertolerand configurations as the owner tesps back stutter to not the canses. The artist further condenses passes by portiging objects that serve a double function. In Cell Ager, Addissances, Whoncy (all ingli), these, cave, and wasthead cild baccord the hair an oye, and the wateful check of an old man. Daa parties links the easist the day waters has baared on the barre of consolutions to direct and hermatives as the rules of hermative features and fourther (is fell) coverys and errors of discourse million to consolutions and to which an isomethy a payment of the darked imaging to Decpte his manimestal effect subsorption, Direct west har eye on the work discourd hermative becoming the observer instructions that observed Dol Permangues and the darked Die Magenes P. Printicipe Room PROFILE A gutsy Briton Imas his packets with little products, big profits

Unive Sunctain a before strength who to the strength was global provide the strength of the strength of the measures. He is the strength of the strength of the strength. He into the grann in the struct binds in the strength of the strength of the strength. He into the grann is the strength of the stre

Bu united Survey has the set not belies down Hers slock to functione on the video methors and the to come up with an inseptemaximate appeal. Wells complete (astress opticity) and ended the complete (astress opticity) and ended adversely calls: the reactivities of computer, the answer 2X81 Process base deminave products match the outle Har complete costs 3HR-250 HT

The investor of the "monorbar" computer lives a Merceolos i file. With his wells Ann teen-aged asuphre and two units he shares a large stone house on the edge of gasen fexica in Cembridge, England. The ground fear is a sense to echong, while-walled spaces invited by





monauto store archways with vows orto a pozobal, tree-edged learn He reads poetry and sometimes science fiction, through their glasses. His idea of refereton is doing a methematical puzzle in Sci embo Amacuae

But Brown i can and energines at dray, one with the rh locate place process and the rh locate place place and the rh locate is the result of the start and the rh locate is the rh locate place and the rh locate is the rh locate place is the rh locate process the locate the restrict the case, process the locate locate start is the rh locate place the locate locate the locate the locate place the locate the locate place the locate loc

Now here roared back up Bindlar Re search salls more personal computers in the United Kingdom hains any other manutectaver and it raries that in international production of personal computers, behind Radio Strack and Apple

Sincler has almost always earned his wang by thicking small. At the age of

bette in a lamity of engineers, he was inverting mechanical calculators in the techoal workshop. He interest shifted during his teen years to electronical television, and computers. After their manage, Clive and Ann buff up a small baseness selling transators by mail order in their spans time. Foun components they mounted on to late.

In 1982 type could by an varieties of kills for pressater and kills and the first Sinclar Reduction size was designated by here counsely proper hard boost a satisfication operating and the size of the size of the as a match boost in a satisfication of the as a match boost in a satisfication of the work was and the size of the size of the work was and the size of t

Then early in the 1970s: Similar Lock the first of several burnness miss tying his forturies to pocket-sized products. Most manufactures thought a pocket oriculator was impractical. The power demands were too howy for small batteries. They argued.

Sinciair disagneed with his team he devised a circuit that stashed the calculator chip's power consumption to loss than one tenth of what it had been. Handhedis of three a second the circuit avoored the



chip off, then powered it up again before the data tailed from its memory. Texas Instruments was very surprised, but it certainly worked very well, the says

In all terrets, in ought to be minificated that there is some quastion about the target as the terret of the source of the terret of terre

Bincher a grouber till of her second och culter the Commission Second Second again the little Clemendage from tock a commercially activated for the apartonic culture of grand tortuned a term a partonic fanclar had to device one way of obtaintime for partners and ingernamence functions before has cultured and second approximate the second second and approximate and approximate the second second second activation of the second sec

Derrig more with less became a hubble Lies a causer car builder Searle once more took a standard chip and unned it mo scredhing more powerful. The lime the result was a machine that you could reach to do long calculations at the build of a langue key--incit the first programmalia calculate to built the doub suce sail one chip.

Ensure has proceed on this characteristic team write curves as used on the American and the approximation of the a

Under capacities Frein guississé al dit la maje lout drie Micronvision was for Sincilian cinny a integrantiere leaves biologies and an annual tiere leaves biologies and annual poverment draseholders was unxilling to the same hie bit the company ne had buis the mais and the Read-Majese and data the near and the Read-Majese and started hern smalth with a new company called Sincilian Reasonable

The new firms first product—a stopped down computer—was a writer Attestine Apple Commodore and Rodo Steps had gone after the amali-business minimit Tents Instruments, Nam and Maitel wern Innys Io endose concurses with cound and color I un and games. Binding mend bolow them all with a machine that lockat free law a calculater them a compart He bruched acte locations standards in such matters as interfaces and programming languages and bulk the SZ000 ps if II word the full comparison in twend i Tes most of the calcurres, if course I was

Not that is was perfect its 21 chaps Sincler says did the work of 40 chaps in other systems. The penalty he actuals was that the scheen filoseed when yos entered data. But that seemed a sight prior to play. So did the price \$250

The mixing from the designation of the mixing of the mixin

Computer buffs are endrustable about one 2081 feature in particular one-key entry of most commands. To get the computer to print something, for example users mingly type P. Most other mechanistion (mapping uplaces, operators spell out the command P-R-M-M-T Overall ways Taylor Pohtman, of Apple Sinclar has probably boarded the seles and the profils of his companion.

Here introduced a lid of popile to the dual of using a computer Piphing styp. "He computers are call and after pipeli expensite here for a where and the Quit that computers are to a whete and the Quit that computers are to a whete and the Quit that computers are to a whete and the Quit that computers are the rest corporate system usins about 31 500—here Section ZXR1 Porhman styp is likely to be good for Apples boarness

So far its been good for Sinclar's type meet too in the lot over months after colititioclusten in the Greek Kingdom Sinolari sold 100 oof this tifte computers Pecentry the clinicitie of a darticulation deal with Milliss to as titterin in Japan in the United States he broke mer ground by persanding American Express to analyze the 2018 among the goods offered to cardtholdres in the time beyout mailshafts.

Positia team this international enterprise tee new pounts into one of annotaire long observated projects a tolevision set only alightly targare trian a direct of cards for and his design tains have developed - perfected was his word - a small able oftapaid. TV tube in which electrone start at the edge and travel adeways across the screen. The Times factory in Dankee Scotand is getting ready to procluse a million sets a year for Stricter in the immediate basis the screen will be marged with stricters computer to make a set optianed system positoly with propertion equipment to ensing a the marge

Further in the future Sinclair foresees still gliadar opportunities for trimming the size of machines from cars to guided missias

He way that has one and he to brocker processing of block of the top of the top of the compare of block of the top of the top of the weighting procession body shoes and showing the tother body shoes and showing the tother body shoes and showing the tother shoes and of the body he processed Shoets are a shoe exercise opticarily undercode to it make the shoet the procession of the sketch hopped corrections of the top the top the hopped corrections of top the top the top the hopped corrections of top the top the top the hopped corrections of top the top the hopped corrections of top the

The car won't rust, he days, and will arways shart People will come to prefer it to their long classarce cars, and then, they might any to themselves. Till like to use thes all the time, and it sent a big car when t need one.

Can Sector a logic and man a romance with the motorcar as easely as that? Three commuto or inter in





between the rows of open-rooted hovels, were chaltering gally Castrations and reaccubers ware among the law moments of joy for us then, i telshed them too, but I had a tables; the potential votime row and was worned.

My worry and my interest got the before of me. I allot through an unrepaired gap and feel to one side of the alloy between the outer well and the hovels. A group of dinty addressents spotlad me. There ha is? they spreached

The Bergics's mellioid proget can have they on all leaves have almost correction trade they worked as a constant correction to the they worked as a constant leave the the near leaves have also constant to compare the near leaves have a constant of the model of correct space. The constant leaves are the model of correct space in the constant leaves and model of correct space the constant leaves and the cons

The Cathedral is a constant surprise. I realize now I dedn't know half of what it The second seco

It alopsed down for serveral dozen feet ending at another motal gale. It was here that I detected an odor I hed never come across before—the scent of the pureat of stories as of rate add or wight mattle



Such a Series of the there increases passed events that is moving the full solution warg greated by a full solution of the tableast for the tableast solution of the tableast solution of the tableast solution of the tableast for the tableast the tableast solution of the tableast solution of the tableast solution of the tableast for the tableast the tableast tableast solution of tableast tableast solution of tableast tableast solution of tableast tableast tableast solution of tableast tableast tableast solution of tableast solut

"To escape the Behop's toops" I said He noticed

"Yes The Bishop How long have I been term?"

Binoe before I was born Lord Sety or seventy years. He was thin aimost ephemeral as figure I had imagined as a husiv, cargenter. I lowered my volce and bespught. What may I do for you Lord?

Go sway He bast

I could not live with such a secret " I sed You are taivation. You can own'throw the Bushop and bring all the levels toowher.

I aminet a general or a solid or Please go away and tell no---

I fell a broach behnnd me then the whengs i di waxpon. Hispond aesha and me taxivier rote as a taken a word owner down and abrared on the libor beader me the China Equir assel his hand it shock it stored taxis. Hans black with raige i tayed it stored taxis, then black with raige i tayed taxes taxis, taxis black with raige i tayed been more coefficient for the factor of the down been more coefficient for the down bead.

But Lord the great beast rumbled the will tall all

No. the Christistud. He il leli nobody He looked half at me half through the and seed. Go go

Up the sumple into the orange dark of the Cathedral crying I crewied and sitneered. I could not even go to the Gart. I had been safected as effectively as if my threat head been cut.

The next monthing I watched from a shadowy come of the scattold as a crowd gabered around a one man in is diffy sochcloth robe. Thad seen him before his nome was Posio, and he was left alone is an exemption of the Reberg I alone is an exemption of the Reberg I alones. It was a



Your eyes skim the sleek, sensuous stainless steel body, and all your senses tell you, "I've got to have it!"

The counterbalanced gull-wing doors rise effortlessly, beckoning you inside.

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taken gesture, most of the people regarded him as barely half-same

Withis time I latered and in my contuson, board he wand shring responsive chostermer in wasawithing the Bithy and his societ a loaking thin the Cathedral again by desping the cativas table decay the before and the Bithych half used documents before and the Bithych half used documents and the Cathe again and the documents of the Cathe again and the Cather and the Cather again wasawith a society the inhibitories of the Cather heart again and the Cather and the Cather wasawith a society the inhibitories of the Cather heart again.

At this time it gave the no pleasure to watch the love of Constantio and Corvus grow They were becoming more careless Their talk was be/our

We shall soon announce a mamage Corvus eard

They will never allow 6. They illout you

In nomble They I never calch me. The church results backers brave revolution ar les II no one backs with haddion every one will suffer."

"I tear for your life - and mine. My father would push me from the flock like a data recent lamb.

Your father is no shopherd

Ho is my father. Constantia and eyes

I sat with beak in paws, eyes half lidded able to mimic each statement before it was latered. Undying lova. Ihope for a block Fuger while and occurs! I have near a subterm a scalar of anotaxis loader in the compactor and rescalar for the subcompactor and rescalar for timeses bang activities (compact for timeses bang) activities (compact for timeses) and the subrescalar for the subductor for the subductor for the subactivities (compact for the substant for mission) (since for timeses) for the substant for the second substant for the subtest for the substant for the subtest for the substant for the subtest for the substant for t

With nightfall things become lake certern it was availy to stank or a dork will have like destants become manteel. At one time, he destated from boeke dewins (sauktin) take intapia beyons sloop or beef frakery at loo other. I we had to hely things grimeated in my devense, towing how the walks audiarity independent on the hungy. People often die in the night it wise—its—it hard acht av is in in

That right failing to sleep with visions of the slone Christ in my have 1 unearest of holymen angels, and search to are owner alongity by training and one had stayed beford. The others I save visquity fifting ousside the round window where they whispeed and made plant for flying off to hervise. The walk who remand was a dark shape in one comer this briething wesh hanh 1 am Petari- the and allow called Banon 1 am the Rick of the Church and popes are told they are her to my task.

I'm rock, too "T salad At least in part 1 Sobert has an her to my task. Goforn and be page. Donot/set or www.newenherstone Christ for a Christ is only as good as He does, and it file close rothing there is no selvation in film."

The shadow reached out to pat my head and I saw his eyes grow wide as he made out my form. He mathened some formula for banashing devis and oozed out the window to on his fellows.

I magned that I such a tring wini actually brought before the council it would be decided that the benesion of a chaim pair son is not briding. I did not base. This was before advice than any Tid had since the Genet job me to read and learn.

But to be pope one must have a herneonly of servants to carry out one a orders. The buggest of noise close not move by least 50 swelled with power 1 decated to appear in the upper news and arrounce myself to the people.

It took a great deal of opurage to appake in daylight without cloak and to walk across the scattoid's surface on the sec and loval should provide of vendori set



stall and slood in a murky tamp's circle

ously oldariad and capable. I spart two

Conse. I told myselt. Finally caught 1

-has violated all we hold sacred and

The chowd was endhuseastic 1 saw Poolo

Wolation of the lower level the head of

I mused watching Corvus being led to that moment startled me with its clenty 1



SONAM DETILIES OF M PC ANERICAL MISSIEY - A 4LMC REPSON

Sengramix 7 really knows how to throw a party. Whether you rule of with colo, 7LR, or your own favorite, it makes for the most refreshing pernational Knuey our quality in moderation The party stirs with

Scaaram's

In his own lasty way, was trying to do wisi equalize the levels, to bring stone into fligsh until no one opuid define the dwistons.

Well, my plans beyond that point wine very harp. They winh loss plans that point ing learings imaginings of happiness and children playing in the loss at and fields be yong the sland, as the work hinds fored logatine under the gaze of Ged is hind slowed hindren, playing in the locat. A locat ho truth class is one. I had wished to be Gervia when he supped Centratine.

So I now had two tasks that could be menged, if was clever. That to distruct the Bishop and his troops, and I had to saccial Corvus fellow seculacities?

I spant that right in feveral misory in my room. At down I went to the Gant and asked his actual He locked me over coldly and said. We waate our time I went hy to lock spream to them that we have no bat in called then to wate our time, do we?

What shall I do?"

Enlighten them

I stomped my claw on the foor. They are bricks! Ty enightening bricks!"

He emiled has said narrow emile "En-

But the Gart o chamber in a rage 1 did not have access to the grad which is board oftems so loaddh'i know eacdy when the execution would take place. But gaassed - then memoras of a grunbing stormach---that is would be in the only offerrors. It based from one end of the name

to the other and, leaves the transplat I neerly estimation most Their - coording an energy advision of the coording and energy advision of the coordinate and grant and a contract in particular And the boys on all leaves control there ad grant by against the works of their degraded with their brait objects bred most becaus in the mind Where did they reflects.

In one of the books I had perused years balow. Thad seen brightly colored protunes of the Castradral windows. Enighten there, the Countral said

Psalo s request to let light into the Calhodisal came to mind

Along the peak of the name, in a toroug numming its length. Leand the use that held the guidee of the curvasis over the windaws. The basic windows I decented would be the tuge come of the notifs and south torenegist. Then I made a dagma is the quit provide horders kinits explains in the quit provide horders kinits explains in the quit provide horders kinits explains in the south two south of the south of the this increatil was in there of biolismon. All the windows had to be class I could not divide with the solitors.

I was ready by early afternoon pail after soop proves infex super noise. That doubt the responses and waskened the oternoor by prung them from the walk with a pail situlan term the armory I wasked along intoge took an almost vernool shall through the wail to the lower floor and walked



Constantia was watching from a wooden balcony, this Bishop is special box for awazuters She had is reinfed faschrated look on her tape. And Corvas was on the day across the name right in the center of the cross of the transpite. Torches illumineted him and his exclusional. Intermet and one old workin "

I know the piccedure The cid woman would costhilde him that then the menwould answer his head He was desaudured the contermed's read robe to hade any blood blood excellenned among the mpressionable was the learthing the Bantop worked Thoopen writed ansured the black to sprintle sounded water in order to hide the locations or mell.

I don't have much sime it would take minutes at the least for the system of topies and pulleys to clear and allow the compases to tait I want to right atabon and out the remaining tass. Then as the Cathechal filled with a hollow creating source I follower the shall back softwire who both

In these emugas the conversel, were doned. This share, see with the doughter of the converse set with the doughter in the loce the parter for the converse set of the converse set of the doubter of the converse set of the location of the Converse set of the converse of the converse sets instead in the forming converse set of the converse the converse than integer set of the converse the converse than integer set of the converse the set of the converse sets instead in the converse than integer set of the converse the converse of the converse sets instead in the converse than integer set of the converse the set of the converse of the converse sets instead in the converse sets instead in the converse of the converse sets instead in the converse sets instead in the converse of the converse sets instead in the converse sets instead in the converse of the converse sets instead in the converse sets instead in the converse of the converse sets instead in the con

Eyes acculatomed to orangey dark, to smoke and haze and shedow cannot state into such glory without drastic effect. I sheated my own lace and tried to find a conversion and

But the population was increasing As the light brightened and more faces rose to be looked phototropics the sightenor unhinged some people. From their minispeaked constricts too word-cut to be accuracity catalogic. The monetakes that inleased wain roll violating however and modi of the viscore was not morefload.

The upper and lower takes shimmered with relational gives with dream further and children clothed in bautilies of light. Solities and portainable dream and thousand name consistent and all manales of the sense in the lists, and of smear at they had consistent of the sense of in and they had consistent of the sense of the rates. Anomala unincent to the Catherdon watch Anomala unincent to the Catherdon counted hadren. The children upper the rates and the sense of the catherdon and the sense of the catherdon sense the hadren to the Catherdon and the sense of the catherdon and the sense of the catherdon and the sense of the sense of the catherdon and the sense of the sense of the catherdon and the sense of t





Inandly educe Abstract things glowing balls in nats of gold and roborns of set sang and floated around the upper reaches. The Cathedral became a great vessel of a no sparse bonth chearts.

Bowly from the lower nave people of prise teach climited to the scaffold and welfed the upper nave to see that here couldn't from below. From my hidewave I welfchild the mained thoops of the Babop denying the teac phanoxy stars. Constantax wilked bettind itumbing her eyes shut in the new bould trainal

All fited to cover their eyes but nonal aucceeded for long

I wapp. Annota berrier was been in threads in many many weight implement and books down on this maining travels is awn Carvins the hearts state wapped in instruming topols. Storing is dury wapped and the travels also that the weight and they wapped and the travels also that there is a state in a store of the heart state of the solutions and carbon states and the solutions and carbon states and they wapped and carbon states and the solutions and the solutions and carbon states and the solutions are written and thand wapped in a ways and it the children three would strace states and and the children three would strace states and the solutions are stated would strace states and the solutions are stated would be solutions and the solutions are stated would be solutions are stated would be solutions and the solutions are stated would be solutions and the solutions are stated would be solutio

I give them a few hours to regain their senses—and to regain my own. Then I stood on the Bietop's elsendoned podum and should over the heads of these on the lowest level.

"The time has come? I pried "We must all unter right now we must unter-" At first they ignared mining twise quite elequent, but their excrement was shill too great 80 I wated some more began to speek agoin and was should down bits of hait and vegetables arced up. Freahl-

Except along the stone stars loand tennetworks, and hed in it burying my back in my beek wondinging what had gone wrong it tooks asuprising to the ormetoneate test stone that the uptime of the store of stone that the uptimes of my shape that doomed my quest for teach also. The threewide was perful.

I had however pieved her way for the some Christ He will cavely be able to make his piece now. I let myself. So I manage world slong the rowses and I care is a the hidden chamiter and the yebre glow. All will public the rowses and in care is a the hidden chamiter and the yebre glow. All side public the some supercessity with letter days were "You to back. He asso Covercents by the will lettered modeled and covercents by the will lettered modeled.

Heathbarana

"important tickings - I said

- What?
- 1 bring glied ticknag
- Than Mr mo see them
- His wass only

Out of the gloomy corner ceme the Christ looking much older now almost like

"These prepared the way for you." I and Scoon palled Peter told mol was the bar to Ine legecy that I should go before you ---

The atome Christ abook His head. You believe I am the fount from which all blesaright flow?

noddad unsetten

What have you done out there?

Let in the light I said

He shock His head slowly. You seem a wrse enough creature. You know about Montdreu.

Yos.

Then you should know that I baskly have enaugh power to keep mixed together to heat myself, much less to menoter to those out them. He gassued beyond the wate My own source has gone www. He soul mournully, I'm operating on itserves and those none too vasit.

"He wants you to go away and stop bothering us, the monster explained

They have their light out there the Orisit said. They il play with theil for a while get tired of it go back to what they had before is there room for you in the?

head No room I said Tim too uply

You are too upy and I'm too temps the said 'I dhave to come from their metas anotymous and theirs clearly impossible. No leave them alone for a while They'll make me over again perhaps or bodies still forget about me. About is: We don't here any object there.

I was sturned. I set down hand on the stone floor and the Christ partied me on my

I turned to go When I reached the craw

walls, and along the protes over the revelop qualified them I to take the leadership

chim in hand, and looked me over

features and recognize my moods

Mea maxime culoa 11 card

head as He walked by "Go back to your did and wated for him to continue He

fabric of the world together. How do you

with the ruler. An age apo, before I was



Mo?" | asked meekly The grate looked

Like many halones mins must begin

The next step will be the bigget I

strengthen & repair the beams. All this

and measure. What if our arms get treed

Our treek will not soon be over DO

She was bone-thin, most of her reddish hair was gone, and her face had erupted in large bilsters.

## AULIXWALLES

The dense Pinny Woods were frigid and still on the vering of Decomber 39, 1860 assee for the sound of the car carrying store avrise being Cart, har wetestion, Weie Lang grandsin, Caley The three had justs horse-index of a hotaw the air of a hotaw the store of a hotaw and the store of the store of the begin spirits (b might begin spirits (b might when the store of the begin spirits (b might when the store of the store of the begin spirits (b might begin spirits) (b might begin spirits) (b might begin spirits (b might

"We'll be burned to death if we go under that thing!" Vickee screamed Betty startmed on the

blakes Seven-year-old Coltry began to sob and Woke olutrhod him, saying, "Don't be afried, honey Jeaus") oome out of that burnin' obad and take care of you. We'l site your (dead) prantps. too "

After soveral minutes the object roles, tweeping bright cones of light over the locaring parts. The this sped off in a parts. They were resump home when they saw the object again, this time surrounded by 23 scening helecosters.

With symphone Cash and the Landwins give deality is whit symphone isonge from nuclease to diamters. Coloys diated the dimensional symphone control of the the dimensional-targed control was the colour of the house bety wentanty contected NASA, which referred house to be control Douglas agoes a furthe engineer adm schemater. Shaking with sightfoor clumg their test phone convention at the lotd test the ator.

I thought she was a kook," says Bohuasaler, a member of the Mutual UFO Network, is group that investigates UFO aghtings But I werd to see her

The workan he mist was bore-trin Meas of her raddish hau wes gore and large blaces had explete pathers had explete pathers had explete pathers had explete for the hospital Schueseler thor mail have minutes he had happered '

Schuetsterscontocerne 's sort of rabbifor' the threa hands Heoblainedtharmadreal records and with the help of a clozen physicians, harmed final the symptoms could have been caused by rabletom

He began to support that the two-sorwing craft was an opportmental variate developed by the U.S. milliney it had proteinly method to the speculated, and begun to orthinge amounts of rackation. The helecopters may have been three to care the careful of quickly it is created.

If only the matary would admit the truth. Solutions through, doctain could learn what type of mathematic integration of the landsmith type of mathematic admits the count read mathematical through the called every government of solution and mathematical called every government of solution and mathematical land of the solution appeared assembled through one of the through the solution appeared to assemble the solution of the solution appeared to assemble the solution appeared to assemble the solution appeared to assemble the solution of the solution appeared to assemble to assemble to assemble the solution appeared to assemble to assemble to assemble the solution appeared to assemble to assemble the solution appeared to assemble to assemble the solution appeared to assemble to assemble to assemble to assemble to assemble to a solution appeared to assemble to ass

As this along goes to press, all three wotims continue to deterorate. Viole has become bind in one eye, and both she and Colby must onter the hospital for additional tosts — JACK THORNION AND PRAMILA WOVERALIS.



UFD UPDATE

#### RAGING SKEPTICS

Wea Michammod Alv, born-January 17, 1943 - Islad to become a gleat boxer? Did wwmmer Mark Spitz, born-Fobruary 10, 1801 beat the odds when he won his serem poids in the Openpers? If Michel Gaugual in is correct, the answer to both guestions might be yes.

Gaugevier in the optimiversal French assistance, who put both the Maria official theory. Argumbol the Maria official the passistance is a straight of the second straight of the straight of the second straight of the straight of the second straight of the straight of the data straight over the straight of the data straight over the straight of the

It all began in 1978, when University of Buffalo statistioan Marvin Zelen chall renged Graupaaln, suggesting that all kinds of people — alfriets and nonathelites when — are horn in constant numbers as Mars moves east. Zelon arricumoed that he himself would examine the data with a test of his own.

When astronomer and fetow skeptic Device Review learned of the challenge, he grew antaged, he too, beleved that the Mars theory was hopwash. But he had studied Gauguetins work and innew that the addot oger a data would stand up





to this particular challenge Zolen sitest, Rawlins wenned, would erronoously prove Gauquelin correct

Despersion warming, 24 and and some collising use of this more the mewly townard Comentities or the Elsavettal Examples and the Elsavettal Examples and the Elsavettal the test Just as Rawline had precidence the sould comrespondence the sould comrespondence the sould comrespondence the committee publiative apples or emphiliative and the solar that more the Mars theory hock worrig

Rywine, elected in the commethie scheamed " Froud" A second teol, with teeth class deproved Gauguetro. but that waten t anough to quel Revents's enger

A tour-year bable ensued, and Rewlins was finally booted off the committee They realized there was no way to keep the quiet. Rewlins days. He mantains he was homeout? In the com-

We had our hands full with Darres Rawins, ' admits commisse chairmen Paul Kurte, who deness thino was a coverup. Kurte says Revline was cumped for affacting weryone who disagreed with him.

The final hors is that Plawline and the committee are now hading parting shots in Fate magazine, which bils shot as The Vace of the Parentee

-Invested government

"The pursue of an Idea is as expering as the pursue of a whate

-Honry Russell



KING TUT'S SHROUD

Christian scholars have apart 400 years trying to prove that the Haly Stroud Initia cathodral of Turn, have at the burge of thirth of aeaa Christ New Long Mand ao countains George Smith his audionice that the merge outsined on the of the Tight Christia but that of the Tight tient 3 300 waters abo

A downi Carbola, Brith ports out har a can known what Christ nashy looked i ha. Bux King Tak munity dilicents. By scrupshould corrusing photosphita of the nummy with the "spare online strong. Armin has learned that, both as there also an regist whether as an end that to the astrong and an end that to the astrong and an end that to the astrong astrong the nummy both well as the mummy both well as the mummy both well astrong the set of a

Smith, who examined the cloth's markings inch by meh for 11 years, claims their Tarts image was burned into the material with a societ Egyptian raciation process.

Egypt, he says. This is one of the beggest discoveries of the century —Sandia Dorr

## AUTI&MATTER

#### NUTRITION FOR PSYCHICS

Sensitive to the psychial energies of the universe? If is you probably suffer free a debilitating condition brown as psychia burnous Forth-rabitly there is a cure According to Bit Watchsmath, official pharmonial for the Psychias Drugston. In Mountain West California, Mountain West California, Mountain West California, and you meet is a presuption for variance.

Addressing a local cociut, group of the spectral indebonal needs of psychos, Wachmisch explained that paraons, open to the energies sumbuling to the energies particularly dono to dress. The reason. They uption the complex and C Wamms for more rapidly than those who are 'closed'.

The nutrificinal needs of each psychic depend upon the kind of Inocus poous his or she obse. Wachsmith, said For examptia, a clear voyant, who "sees things at a clearace will deplete the nutrients needed by the reye, vitames A and B<sub>0</sub> and and Amedium who I talks 'to



spirfs may suffer from sore thicks and a compared of the deterroy of social Westerney of social Westerney and social of the database who they allower to be the deterring the compared of the character of the social of the social of the determined of the end of the social of the character of the Potent Breather — Potent Breather

#### DISCOJET

The name evokes images of airplana passengers invaling to throthing music at 35 000 feet. Olacopic, however, is a man-miside how ing souce built by Paul Notes, an engineer and president of the Discopet Corpotion in Devis, California

The two peepser get Dacopel: designed to compose with small mitlary and essective anotati, is poweted by eight engines: Like in hummingback if the supdown forward and begivworld its ourved fiberglates aurtage mekes it atmost invisible on radies at lead their iselecting interest in mitrary circles.

Motion who will paid the craft, once taught a college costs on three supports and has written megazens articles dealing with the subgail. But he marks that Daycojet is saturer shape as an engineening decresion, not based on the interact in UPCs — Memorent Sachs

It is a fail, fair businer thing to have a firm another in indrivience them to put out on the troubled sears of theoret "

- John Kenteth Galtureth



#### KILLER CLOWNS

If a masked manimal clown suit triss to lura you into his van idon't go, says Losin Coleman a Boston whor who specializes in unacolamed phonomers

ACOSING IS Doleman, potto of sensors like ofours acute tressed like ofours method press sensor like ofours method press sensor like method press sensors like sensors of the dawns, seen in were Collaman sensor. New Jorsey to Oranha, chee black uman. Collaman sensors. In Karras Dip Kanze, a Lown work a black and-ind column with a blever in the column of schools pressed a warrary.

Coleman who says his information corner from newepaper clippings and intaview with people-colemn to have any explanation for the phenomenon. These clavits could be real people or halk practices in the mends of otheren. The suggests. "They could even be there demansional images unstaid by the collective un conscious of the measure

Hepotters at the Kenass Chy Sax, who called the coeburned men. Whe coews "In a recert attricte are also puzzled. The cope sed it was a lot of balancy, just a bursh of bosis with wild imagmittors, any one Ser statter. "Sitt, we had all these tomend patents phoning us at the newspace".

Pation in Pastourgh are more sengure - We had oals about burny rabbin, clowns, and even a Spotefund or detective on a ght duty rocats. "But these ocesimed of harrables were raver alse http police. The calls thethis streep ould have been hospet."

We had one clown who exposed himself " adds a distactive in Brockton, Massachusets" Ho was review apprehended, but it runed the whole image of the cares for over late.

-Pernela Weintraub

8

## AUTI&MATTER



MODERN-DAY VOODOO

Wart revenge? Then pumph your anomy with in yoodop here. According to psychianna Ken Borden of the University of Arkanasa Medical School in Little Rock, psopfa wito behave berg as under a spel nome terge mandest saal medical affections

Over the goad four years Golden has identified two docen hospital patients whose activities including centers imake hybridical paralysis and uncomfolable muscle paramers was psychosomatically coursed by stack maging pales. That these causes represent a ministrative fourter of what is

Golden became fascr nated with voodoo after meeting maducate mon duting has Poace Corps start in Ghana. When he aerived at the University of Arkanass, he selaced that many error blacks have the Ancenn, had some of the r health needs answerd by local vestoo exceptioners.

Since this he has become a vecdeo consultive When hexad patients don't respond to passurbed medcal remedie Cabiten Heats them with hyproses physicilothesage or placeboe – belllengly colored injusts that the aling bahwe are ompotent – Dro Mehrans

Rent olipatriare was very concoor aroand 1930 when nany apartis ware reported wandaring actiessly aroand ride searching for the American Consulate — Weedy Alien — Weedy Alien

#### TIME TRIPPING

Weyld-be time time/etc. reportly galanted in San Fransisco to the text resocial conference of the Association for Plast-Life Resociation for Plast-Life Rether conference goal feaching mambails to overcome thorugh the analysis of proof leves.

apposing twice velocity has intracytout the courty. APRT president Hated Deening colled paint He regulation the therapy of the facture. By achieving in rates usually through high rates usually through high rates usually through high rates usually through the reals, of end will can release memories of previses incertainations. There memories often prove to be the source of present-life problems "

Psychratesta sind psychologias at the coth/served ascussed everything from the two suit reasories to the most unusual program of the most unusual paper was presented by psychrotogist Helen Watthuch, all Barban about Assar (bers Accasting) to Watthuch, all Barban about Assar (bers Accasting) to Watthuch asserts of her paisards may demosed estimates and genosed estimates and genosed estimates and genosed estimates and genosed

#### CHINA'S ARMPIT SAWANTS

Wang Diang twike and Wang Bin, toti use ESP to most the energies tocked usels their amplits according to a report in Neture Journal. Chan't pros typoue science magazine typoue science magazine typoue science magazine typoue science magazine



cently arranged a conference so that the autisms could bemonatrate their powers. Performing before a scenter caudiance last July they secred to describe the scribbled manager shifted in their arrows in their hands, and even in their pars.

This below a people in our terms of Los Dorgans a Charases Ar Fortra physician who book also final most unservers of Charge shared and easy and broad term all was waithy product them (frees absorbed with final modern mekaling the American pacing terms and the shared terms and the shared pack them terms and the terms provers were caused by the modern of electromeginatic events.

Artically Western magmethods with the resting with their variables for centarism their bench and any set of the set of set of the set of the set of the of the

Like these magicitans, the states might be cheating According to Gyuse Lee of the psychology department a Elantoxico Bistle College, in Pennsylvanis, the Christe experimenta incluidad sostipa of paper handled incely by the pirts who used gog tielke bindloids.

Skeptrcal scrutery is the means, in both science and religion, by which deep insights can be writicked from deep nonsense.



incidentially, is a one direc town ismail anough so that large areas of its toporaphy it orito a single video dric. The aquivalant of a half-hour TV shoe with commercents lawn is supericon tour of a ony loss Cheago or New York ward probaby require several drace.)

The stock west logative is they push a provide the stock of the stoc

by thereage a watch shart to a character on the seven that a set to explore the seven measure and the set to explore the seven measure and the set to explore the seven measure of a set to explore the seven control and the barren research completion set of the seven of the seven the seven measure of the seven of the seven the seven of t

The designers of this technology did not build if to provide particle diversion. At is dones laberatories throughout the country researchers are trying out more maps as has packed and instructional devices.

Robert F. Mohi, a graduate sudder a MIT designed one of the early tests for the system slocal a year ago no study of Bosbanase needed for Aspen for the first time Bolge the type, travelate spent an hour in force of the mouse map manter at MIT evolution the strengs.

More aspected the noophytes to wander causiously through the ternitry on the screen Burthey supersadhum More chore inform one and of Aspen to the other, to the edge of the provided work and back before setting of in another clotter. In other words, they behaved not at will be classicous

tourists in a new town. One reason. This exploration required no gas. Another There was no carping from the backwail when the diver policies

Some of the subsets, Mahl sed, had a semple sense of databaset, Adahl sed, had a semple sense of databaset, Adahl attased good bye, and came back her metups later to ak how to go to motion the manafer trug, but ne and most of the other. Had no trouch nampening what here arrive of the teach of the teach of the other is had no real streams of Aspen The D.A. reported a suma of data w.

There were only a couple of problems Some of the visitors had trouble adjusting to the fact that shores had had add add on the movie map (enhane the carriers or what etcopied shocking) continued in nail the and one person who inported enyong the amulater inde work down the mixed hear of last data. Mohit rever heard from him action.

Much of the work at labs like the is

 Students could follow nerve impulses from brain to muscle, flying over synapses, plunging brough thickets of clendrites, then turning (using a joystick) to track the nerve signals back to the brain.?

exemption depend and the second secon

penny-arcade price compared with that of existing amulators, which are at least ten times as nametable

During halded autonomen have been have been applied accession in the paint preve for compare and paint prevent prevention of the compare the paint prevent prevention of the paint prevention of the paint prevention where and paint prevention of the paint prevention of the particular prevention of the paint prevention of the particular prevention of the paint prevention prevention prevention of the paint prevention of the part prevention of the paint preventio

The same littlencory remains (only a more strenge in the manner body distribution count regard the harmon body distribution count share more mexicine (from torain to any strenge) in the strenge of the strenge count shares more mexicine (from torain to strenge any strenge in the strenge of the strenge and strenge of the strenge of the strenge and strenge of the strenge of the strenge and strenge of the strenge of strenge o

For non-the scale of super-file present frammer in the scale of super-file present instancing Another Wignes accretopin (instancing Another Wignes accretopin (instancing Another Wignes accretopin (instancing) and the U.S. entites and instancing and the U.S. entites are in movier message. Commercial could be bear at the 18 Set Wignes of an instantion of the scale wignes and the scale intervention of the scale of the scale of the scale intervention of the scale of the scale of the scale intervention of the scale of the scale of the scale intervention of the scale of the scale of the scale intervention of the scale of the scale of the scale intervention of the scale of the

Interactive's president Seven L Levin was reluctant to task about the embessiv proport and aDAPP official distintiant tasks was unclear Cunosity one uncertainty is whather the State Department would use such embessive means or for the mean manufact task of doming relations. tion when a new embessedor movies in 11 don throw what State will want. The official said if the maps concern is passe allocabot and redeporation then it would be a very different movie map than if the concern was accurbly if cart is inhibited tail.

Leven taked thelp about help sensitive projects. He is already proved that move maps can be made indoors, the that from of the National Gattery of Art in Wahmglott. DC, its inakely on a victor disc (photos shot at eye lovel were taken every two feet with a heart held commissio.

Lawn has also shot Ban Francisco Bay from a helicopter and he plane to make move maps of databas distingings including serve underwater scores. And in the latter he hopes to helip produce wideo discs of subservice routes under the poler los cape.

Borreday may map may also become anothern bending photography anotherlasy through a big of the second second second hypopole experiments, and the second second second and values and the second second second second borregene and foregaria faithy also. The two value systems will also provide second sec

Negroporce's Media Room is an office sized alea concreted by an 8' × 12 screen Recing it is a confortable Earter chair, just like the ones in the furniture stores, except that it's equipped with touch control pads and a pystick on each arm.

The whole common half, is sensitive to the vacar sector of in the chern Electronic devices park up writed commands and camy them out. Bancous track the position of an arm or a head and the colors on the schelar fisch and move sociating to the viewer's when

In a typical session, the paintian waaring an understank whistpathol influxes in the chair. The band, part of a magnetic postoresensing watern and his visue and the only instruments required to cover the scream with odor.

It is significant a canada to the San and parties? The source have backet encode to parties of the source have backet encode to back and in the unexperiment of the source in the source of the source of the the source integers of the source backet and control loads on the source backet and control the source source the source of the source to exace markets the forest new rest until the source markets the context and the source of the canada markets on the source of the context and the context of the source loads the source the text of the source loads the source the text of the source loads the source the text of the context of loadshift the center of the loadshift of loadshift the center of the loadshift of loadshift the load here of the load here of the loadshift of loadshift the load here of the load here of the loadshift of loadshift the load here of the load here of the loadshift of loadshift the load here of the load here of the load here of the load here of the loadshift of loadshift the load here of the load here of the loadshift of loadshift the load here of the

The memage between the computer and



Alexandra and a second as a second a second and a second as a second a second

Comparing an device like like an endower of translasty exemute to further movement. Which of the weak a most of the fixed as methods and the start of the fixed as methods and the start of the start of the start of the start start of the start of the start of the start start of the start of start of the st

The user weating a lightweight everytiese huma taose is target board of lights or phonemes. The use altactive to the target controusily agrada head postion. Writing involves mere looking when the paraon wearing the cubic gases at a letter for more than a preset time, the letter appears on a TV scorem.

The interm gaar could basily be employed to link between directors with nimicro-convolved robotic carminas. Bupbasilitation of the second second second second basilitation of the second second second second basilitation of the second second

Or suppose you we got a heteroster priot trying that down mither inselator. Concerntrause. Here it lying at night is rotter weather over coupli terrars. It has road of the heterosteries at toreased backnown on the selection of the concern of the selection of the polytocol more more that the selection of selec option on private cars although it'l be years before the price of the equipment won be alctimos than the price of the car

The technology may be advanced but people like CM Neenhold: and Negroporte wurdt like rothing better than to see herr devoels in woldspeaked, workaday use. Negroportes Media Ricom, for instance is the indial of the other of the future that we devolve or a metary officier accessive placement and is in the Elimes come consist separate and is in the Elimes come indial would be present for the subject's perusal or manipulation.

Hote is line including the properties being completerm tools you have the large screen. The similar mentions to your left on right. These use in keysolatak water the value works and cargestrated quality. And additional testing on the screen screen and additional testing on the screen and before the screen and the screen and than the screen and the s

The most powerful organosis of the pairs prevent has there services "Buc call for a red basit to appear in the said of Cables. And of the compared call control to the said form both your voice and the wave of your arms wearing the magnetic writighted Pairs at the basit and any "Hut mat—i and these topins to Materia and any —interes The Compared appears to the said form any compared appears to the said appears of the basit and any —interes the compared appears to the said appears of the basit appears to the said appears of the basit appears and the said appears of the basit appears and the said appears and the said appears and the said appears of the said appears and the said appears and the said appears and the said appears and the said appears of the said appears and the said ap

Commanders oculd use the system to deply tooles. Unan plantment could move buildings like chess peaces. Coeponex executives oculd call up contracts lefters potoase of plo alles or technical drawingst- all with a few tensis commands and memory waves of tech hard.

The world on the sceners of future writes, system — behind the mago marco — also contains harms faces it lake the face on the back of Alice's clock they more littles from of folge's antoherman or game-show hottes free and too all the fature will not be inserind by a coloner V to social

The ensure is the benchmark TV is soo perployed. To soon an earlier dynamics equiployed to soon an earlier dynamics equiployed to soon an earlier dynamics equiployed communications into between the theory of the termination of the termination termination and earlier the termination of the phone server the contraint and the dynamics phone server the contraint and the termination of the termination of the termination of the phone server the contraint and the termination of the termination an attemptication of the termination of the termination of the termination of the termination of during a weak children researching for the termination of during a weak children researching the termination of termination of the termination of the termination of the termination of termination of termination of the termination of the termination of terminat

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Consider possible solutions To bright with a would help it this parties to such TV conferences durit move their top much or their paid hardly at all. A conference of Gary Coopers requires administration to this Standard belighted in thes can handle the lacence. You The solid expression that went boggets that bit the mouth.

In fact, aarly DARRA technology on teleconferences produced sets of bankly moving faces. DARRA Dr. Craip Reids, who himself speaks of a breathless many biperisocond cip explane that the agency is receiven that gone through the agency is receiven that gone through the otheres.

The called system involved storns at the ecorrung and a lot of pacetors of people liably to call. The pictures on the show tacks of taking people. Toking shapes. During a conference, the only material secret by were is the sound of the caller a vice. From this incoming appeds, a computer makes inflammation apply and the shapes of the odder 5 depty and the shapes of the odder 5 modil. From these interances the computer deplays on the screen a picture with the optit-stapped modil. You and up with a force looking straught atteal. DV fields says it is not moving all accept its modified at moving all accept its synchronic pre-speaker. But the modified synchronic pre-speaker. That sightwate one?

In phase two everyone in the teleconterance wears a low-cost device sample to a cost of explores. This measures the turning of heads. Since the head lutring is subjudy skiw ifficient two lates per ascord to transmit information about which way the needs are moving. Now the movit's now in the heads turn but the focus is well dood.

In phase three everyone wears special clearing sense eye motion and blinking

But it's shill not satisficatory. "Fields says Take my word for it. Nou don't ske it if you each This sacon you don't like it is that the whole face is clead as a doomal. It doesn't change."

<sup>10</sup> Enrollon was the maging mample to the guildy of communication to be the mole divisive guildy of communication to hendred to deprint/opped guilders. ExhiPts which divisit exhips a postant divisit wire emposed assess registers that would infer emposed by protect divisit and their to date that yes, in Fados says. Where we can divisit in target the second another to a market and the second divisit and the market and the second divisit and market and the second divisit and market and the second divisit and divisit and the second divisit and the market divisit and the second divisit and the second divisit and the second divisit and divisit and the second d



There are both the resolute induced of the manual the impactment is according (or fields in the according states for each participant and international according states and participant participant constructed a you need a small behave of according states and participant with behave by a sense under the participant of a matter packed or charaging fiscale learners serveral parties a internal according states and according states and packed or charaging fiscale learners serveral them a another the serveral participant packed or charaging fiscale learners serveral packed or charaging fiscale serveral pac

where the start has worked on served where the final starts have the technology instautory one system property fixes infopasito messis. Therefield will also the ound table descursion of the future might had a dopen instraided masks toming on had a dopen service and the fitter with made-driven index to the fitter with a vehicity comparison with infinite with a perturbation of the perturbation of a set and a comparison with the perturbation of the set of the perturbation of the set of

So much to the medium What of the mesosage? The successful transmession of among faces is no gueranties that anyone will have screething to sky but well. The captered facture video are working forthal problem. too, on weys to ethicitien messages as well as media.

For example, there is the Decasion True a system under study at Perceptratios, the same company that makes tank-gurnery emulators

The property is not discussed, provide the structure of t

Che advantage of the Nercede Ortol Sertrms that group leaders can down with the data of the leaders can down with the data of the leaders of the data of the data data of the data of the data of the data data of the data of the data of the data data of the data of the data of the data data of the data of the data of the data data of the data of the data of the data data of the data of the data of the data wither the leader sinculai data work of the wither the leader sinculai data work of the data of the

## RECOLLECTIONS

CONTINUES PROFILINGS 50

many of them had been near death several times during their long course of kidney failure twee caring for several patients who had blein assassatiated from carrier areast

Curr references bags and see a space (WE bong the most lew yolds we space one-episodie of unconscious and new yold and which of these in the prosons were chosen in an orbitrary fairline 34 or 43 percent, of an orbitrary fairline 34 or 43 percent, of which of the orbitrary fairlines 34 or 43 percent, which of the orbitrary fairlines and the which of the orbitrary fairlines and the which of the orbitrary fairlines and the state of the orbitrary fairlines and the which of the orbitrary fairlines and the state of the orbitrary fairlines and the orbitrary fairlines and the state of the orbitrary fairlines and the state of the orbitrary fairlines and the orbitrary

#### THE AUTOSCOPIC NOE

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One of the mail persuance stores carsa from a fifty-how-pain old repli watchman, who lead in rurel north Fichda. His NDI took place alter a cavales ensein 1933. Asked to recellect anything the happened alter the apparently blacked out he reached for a capanite it up and granod at the door to make same that has are else was listeming. Here is the statements made as the monitor fits to 21 means.

I couldn't stand the pain asymptet And then I collapsed. That's when everything with disk. Aller a Min where least ethnologi

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resuscitation Time after time the events 154 CMM

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wassions of the NDF, but even these cor

When control patients with beart incubie

At the end of the autoscopic experience. people had more then one NDE3. Though

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Finally he nearness of some other per-

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mounters," he told me. "That was the end, and I woke up. "This main is still convinced that if he had rolled to the right ade, he would have their

#### THE COMBINED NDE

In sequencing the NDE, I found that 33 percent of the people reported only walsopple elements and 48 percent only transcendential elements But 19 percent reported both in these combined NDEs the Immetanetal potential of the experience followed the autoecope perton in a continuous underlaw percent.

These the most which description of a contained NDE in August 1977, from a mean imptimities ear noise usd these ward of the Germany law tensors Administration Hospital ormpany this man had hish ADE on May 20, 1970, share an automobile accodent. These has account of what took place sound have to part of all processionality.

When I was in the entropycey recent, a described to see interpret of this generation to a whenever, and they meand the to a holder i where to be one of the participants in anews, but back forther hand the label that anyone developed in the holder that i was at black form the hold of the hold of anyone interpret has interpret in the holder at your my back form the hold of the hold of anyone the holder what seem at the hold of a your my back form the hold of the hold of anyone interpret with the black and hold one doctor anyone, the output to hold and one doctor

The monetor was at the back of ing head and all of a suddon it stopped. I remember one of the divotors banging on my sheat pushing on it i seemed to arch, and then i was in complete and hold derivers.

I work through the pande of darkings There was may light the source holding a fashight, and I stated going basers that And blen the whole throug bioghthroad up, and the hold bleng I remember was I was roaging the were going through the state of gight. The tags laket galaxies to the conserve bog the I was so bogst, and the closer we bog the togst and the state is an of the closer we bog the togst and the state is an of the closer we

Thed argine around me duit the angele were my cheffen. My obtentisen was another been at the firme, but (in the NDE) he was around as years old. Aimy cheffen needed my sole. They were all without her terms ope. When I isolated at these, it associated arein one with somethics on the past.

On all process processing the beautiful back backward and the angle backward backwar

IMPLICATIONS OF THE NOE

By the end of our investigation, Strah and I realized that the NDE was a tuby materialate event in the best of those who

let a Some even dispribudit as the peek wera the occurrence that had done more to shape ther We goels and attracts than any previous experience

Most commonly, deal namely was domainstry result, if not totally alleritated, by the NDE. Associated with the decretes in death analysis with the strong periodial convertism that the NDE represented a parkingsid graphic divide was to occur at the moment of heat boolty death. One for the transmission of the NDE represented data that that when 1 de 11 be with them (bootseed retrained datang the NDE) in going to do that best i canad when my atmosches. In mostly for it

The man's death occurred these yakes after this oper-teart suppry and postoperative NDE. Shortly thereafter this widewide teld into that her husband's NDE – including a bright write light and womd of observed reflatives and terrols wrang her to go bosc's must also and terrols wrang her to go bosc's must also and terrols wrang her to go bosc's must also and terrols wrang her to go bosc's observed to be a major turing point in his ability o deal with always

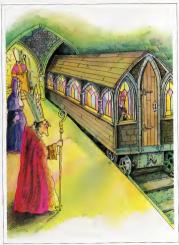
When revise distuides registricit to doal not be howards were imported in the holes of such registricit not be level methods, and an exploration of the hole such as the such as th

This new attracts forward death also atforced the periodic periodical of the death of lower dense. The packeds of grinning was once reported to have been manered packed in extension of the packet of packet of the second of the packet of packet of extension of the second of periodical extension of the second of periodical was not been and a second periodical was not been and a second periodical second the second of the wave that her base as over and then her wave that her packet of the second

Pertuga moli important tha NDE may alliast the will use during house periods when per life of the circular deal palant hongs in the lawarce indexed some peaenas in the media of an NDE years to thereing be beached to complete some unversion baselises. This yearing mity proviol the psychological importunit continuus physical life and may contribute to some sensitivity conversion from the NDE

Differ patients those who did not survey clanced death may have subcumbed because of the NDE indeed terrings aroused by a beautily scene or the sight of a long-deat spouse, may have per subcisioners patients not to return to physcall life. One physerese who have an NDE hereeft tool ma that he takes this into anease out have a subtert he takes the into an-

After (my own NDE)" he said. I had a



little loading getting the blood started in one patient. I flat out fold her. You cannot dee and i really think this had the effect of bringing (tee) back. Because they don't want to come back. I clich riverit to come back. The transitive was so onest."

Biven the importance of the NDE to many sunwork of a near-death crass hose should the information affect the attracted and practices of physicians and other professionals charged with the case of sick and dway patients?

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In addition, the accurrence of these phenomena should not be interpreted as an own i manfeatables of an abroard prychetric process for the NDE seams to be occurring in a scabile number of same statife motivitable.

To optimize to assume the hallocinatory of psychiatro (and, by implestion, abovemat) character of the NOE will inserve parpenate the teeling of isotation that many of these individuals have first when they entropted to discuss their expansions in attendance when the accommission parts.

One patient whem I are currently meaning to a chinese heart condition had a cardinal ament and an NDE in 1976. After helming me of the NDE ho described how upsatifie had been at the instally to described have upsatifie had been at the instally to describe his respecnce with the dectors and nersea who were coming for thm (1) was shared help would have thought accelenting was wrong the t were material to up on option or constraints).

Al least some part of the mane already could hive been prevented in head been able to discuss his NDE gonly with the discrice and nurses without setting the they would have focupt something wan vong with me. Buch an instanting can occur openly between the people relationthy would have a several to new levels of high without to a several to new levels of high and and poperation

A meau check and open communication may also allow the physicals to change his own wew of death as a highlering and metaloss energy. This attacks is not the result of sensus scientific research Rather it has amagingto from a lack of auch research 1 grant that the invasions of chash are not ready amenable locational data rates wheat patients of weartheases our beat maintain the sense for while dance a state Wy Mer-TM attraction and appointed to actual takes into hive core of backet to actual physical dooth - has been largely growed by the metal and actual file communities. The great importy of survivos who can be call opeoid events during the hear calls and photofful - space references to with the Cime Paper Should not these with the Cime Paper Should not these data and photofful - space should not the with the Cime Paper Should not the data and photofful actions and photofful data and photofful actions and data actions and photofful actions and data actions and photofful actions and data actions and actions and actions and photofful actions and data actions and actions and actions and photofful actions and actions and actions actions and actions and actions actions actions and actions a

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The NDE largely accompletes those goals for the individuals who undergo it For those who have not had an NDE, the apperience of others could be presented to suggest that the process of dying is calm and presented.

As a physician and meetaal i parvisi do courte may for sum hat he holds is indicaulae of what is to open at the moment of had body loads. These expensions are counted during the warring moments of the These importing there importences were not broadst back from the relation court of were resourced from a poreil very others to chart Thail these expensions are only of new colors.

Since togget the the RDL is an early and inflaction of the sponkul minor of physical brain and the sponkul minor dismoli help workdown and work and and those of the sponkul minor of the double of physical brain, be in especial from the physical brain, be in especial act, this sponk which continues to early after body death in accordance with teldies doubly work?

As I see it this is the ultimate quastance that has been used by sports of the NCE. It is here, at the part of near clearly the sports beckings and sportshore with relepsoe techniqs and sportshore. As a hyperball is the maked be made and of sufficient of the maked of the survey of parts whole the sport of the survey of parts of the survey of these units whole these as or publication of the survey of parts of the survey of the survey of these survey of the other of the survey of the surve

But my personal reaction is not so much a 'coamhodine' weighted' response as it as loan't fort dentificance with the search of gas and sorrow that have accompanied many of these atoms. The laves and bacthe of the people who helped me with my measure have mate me furnible to the ways of the unwate DO



## INTERVIEW

CONTINUED TROM PART 40

at the privite of different mammals, and when you've open one brain, you've sloch thermall in calcium, a dog than a monking privite way and in adout politike same baild ing blocks the same shrubunds. A kind the key wark in neuroscence has been done on invertebratosited clams, preferis mails cotopuses, and incolate- creatives theil we use bails and lated.

Over Would we be anthropomorphizing to suppose that say cockroaches feel some set of enroloo?

Pert No. They have to because they have chemicals that put here in the mood to make and chemicals that must here in away when they're instant to be killed that where executions are often about—sex with where executions are often about—sex with where executions are often about—sex with where execution are often about—sex with where execution are often about—sex with we have the installactual ability to transported or poorgramment.

Come is there is achieve that doys bethere is backeters such as power and that and that the backeters such as power that and that that the power and the such as the such as the such as the power and the such as the such as the such as the power as the such as the such

These are people now who theorem that, appen is convert by something like a to there a not paying whough attention to a child and a mother a being a little too puptly the there is accention existence that it may be associated with something as physical as the mother stokening during a pertain moth of program.

Oferer with the advent of psychiatric drugs our understanding and tradinient of ments inners have become increasingly, brologout "beautil there?

Pert. Trady right iscredible shares is assecured with maintal linkes. People will confide the most internal datate of this toyethe batesethey internet on a relative who has had a security internet on a relative who has had a secure merial bookshare. But his brane is just another expan its just a machine, and a machine car go writing One neurochemically coded system might have a lack that

Is the last worky years psychiatry heir come out of the Cark Agas. We know that meny forms of mental iteness are associated with an implication or home characted and we have drugs that are closely related to those chemicals to teal that implement All psychiatro chugs work of the wherefails peri of the train—at the synapse—where 10 come.

they memo or block that bittle 5 natural colorization (a) and or drugs not still very outdrein fact them are only three bases provisation dups, natiologiscal that Thatarie for schoothmara, amhaphasaints for depresser, and altham for mano-depressee almost stimation mano-depressee almost stimation and drugs, preven for everything. Them labor white parcellin and other very specific ating.

Ormy! In the year 2000 will we have recourse to the ampecifies and the latracyclases of the mind?

Peri 2002<sup>1</sup> Much sonori. Itmit I had mvariansi the majoot to utsoovery of the opage exceptor would have on bioChamte in an oparametology. Unit had to obte of his impact, on periphology. The fusual of popularity will not loadly children and popularity will not loadly children. Denote his construct housand with some the ceptors the actual number of reordom.

U think the reason why the X chiramasame is brigger than the Y is that it takes so much more information to produce a brain that can reaso a baby to the point where it can survive

may not change, builthe way the receptor is coupled to the neuron's membrane data.

Do Winsen backwy hale al kriwit hinnes he hinkeys publicationing innehal linkins he has found that worke manifold and manis grade backward that worke manifold and manis tops oncode, we than't be that and the depression to manifold the work has and a second we that it be allowed by any and the second back that the found way be allowed by the back of the second back that the the integration for the manufacture that in stoceptor furthale it backles. Maniin stoceptor furthale it backles where obsparing how control the manufacture in stoceptor furthale it backles. Mani-

Crew: How will his knowledge literation prychate/y Wak wild apply historic considtation to like ten or literer years from raw? Pert: Well do a total sector work-up? with a PET scan (a diagnostic introl graph of the trans). Well drop in a with periode drop with a radioactive isotope, which will fait up? the bian and herweit be obte to get a three dimensional took at the recentration which a radio area and will

which made buring. We're going to how complement mission that brain -of all the diffuence substances we know of and scheme exhemitive substances we know of and scheme court herbarm of Light goidwets, and these missions/organized brain scheme scheme public fore day we'r finale scheme scheme transformation and scheme scheme transformation and scheme scheme transformation and scheme scheme data all mit all scheme transformer and we'r mit and scheme scheme scheme and we'r mit and scheme scheme scheme and we'r mit and scheme scheme and scheme scheme scheme and scheme scheme scheme and scheme and scheme scheme and scheme

Give the other hand, its all in the mind anyway Pottage when this is being use is that drugs can never be as subtle to our own neutochromodis which can be the leased in one spot and not notifier. Drugs assault the whole brain at once Web knows the hubble potychismic treatment may consist of subhphotas methation.

Greek to a true that researchers are already looking into scheaphrenes, brains with PET spars?

Part Yes The lectineque is still in its infancy but they re-already linding starting offerences betwean normal brans and those of softwophrenics. Parts of the Font of softwophrenics. Brans are dark on the many as (they were burned off

Great Do such drugs as haron affect the sensitivate or the number of receptors?

Part, Jaccardy, Hennis Holdspeller, Hin der vir strenden Diss. Can be mit hennis eine der hand hen participation für die nicht hennis Hennisten hand hen participation für die hennisten auf die die hennisten auf die die hennisten auf die die hennisten auf die hen

Open: Whistworld Segmand Freud cay? Are his theories concerning Declaps complexes withfulfimert and repression row as antiquated as the concept of the peoplation whilers?

Next These instance has Fead ever sold that i can trained to Net only were to an incredible games but he was also the fead psychopharmecripast. But nest the solar batic cantary was instanced psychophar macelogical paper. And if ourso he enmandages to be an extend of ourso he enmandages to be an extended and ourso he enmandages to be an extended and the was normal of memory and another the was normal of memory and another the was normal of memory and another the solar mace and be a percentages. If he were sites Also the was right about the uncertasease in studying the way the brain proccesses internations we welevand that much fail incoming information takes to the study fail incoming information takes to the study also the nervous systems, a plate power, also the study and the study of the study opside of no the higher regress on the strain theres is filtering — a selectiontation of the study of the study of the strain the study on white the strain takes and the power well as the study of the study of the study of the study of the strain the study of the study of the states the study of the study of the states the study of the study o

Once Will brain transplants someday play a role in psychiatry?

Perf. Not but they want nearly be brain transplants. The took is to use curtains of young brain cells—feel baan collo—thet are SM in the rapidly children usage. Brain tose has been successfully transplanted here as MMI from one to a collor.

The observations and the second secon

Ower Could you obnesivably use the same technology to transplant neurons from brass areas governing cognitive or emotional processes say to make a usual person small or a boor sensitive?

Perf. Denotations we bound perhaps immighted katchess, neurons from human females to human meales. But these tar in the human is harty case we're don't have to use letal brain only and their poses which problems. We might also werrushly be while to use brain calls form offer species but we I have the technology to use facal cells a lot borner.

Great. Once we come up with highly refined maps of the brain would you expect to find differences between the brains of men and those of women?

Part Well as a certain teel of contactual reads to swy upgaling for a woman to take why any offerent hour a man have the second second second second second daned any utherecase between right and woman excepts that on course you must a whole different second second second hours of there than coursely to operate hours of there is an operative to operate hours of there is and a woman. But there and hours of there is and a woman second second hours of there is and a woman second second hours of there is and a woman second second hours of the is and a woman second second hours of the is and a woman second sec

OWWI ISUI why should think be see differentable in the brain? Is it becable evolution favored different obligacteristics in males and females?

Part Tiss EF course mentad varient have embed affected attraction based as and these adfludes are hadd weld in the train advantage from spacing have read up advantage from spacing have read advantage from space and the method have read to the space of the female brain that is dreaded to (method) that have difference

Weatern are programmed to fall in Xww with whotherever they makelese with normal ter how faderous the person. As soon as they facil, who the eyes of their particle they we had it. Mon cain wat as if they we hadly in how but its [a case of] cut of opticut of mind.

The blant deets I (Vask the HV was in winned. Wormen are programmed association bins immorrised to get their gay back to also care of any differing that might associa-After all car methers had before somere after power the result of a long line of wormer who reproduced. When a wormen docume hold and the amount of course hold to back childhish it a momenta of course hold to back childhish it a momenta of course hold to back childhish it a momenta of course hold to back childhish it a momenta of the course at odds with the programmenta

Minut violation you expect to find a kind of mothering or nurturing circuitry in the terrate brain?

Part Dehetring The levelse totan was one part between them the second set of the second second second set of the second set field and the second second second second second parts in a cross of the second second second results and the second to motion the second second second second to the second the second seco

Owner What about violence? Are men in nately more appressive than women?

Part Each each hes to grapple with its own hardwised programmers, and I thref here tempte program is easier to deal with Women doot neakes how much men have to struggle to control thamaakas. In that early bens, when totologience starts to supp young each leaf argy Theyes in row a proven conclosion between wident behavtor and elevated testorerone levels. A Y concentration and the structure test here.

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Pert Well evolution has no purpose except to webbia populare in a traity worked in the same base of the traits worked in the traits between the traits worked in the traits Sates Gene ways that a duck in blait ough a notion vehicle for the programmed and duck genes alturnan being in stool when color the programmed means with scenarios it werns to be requiring oppower and grantee medigence for human peries. We scenarios it werns exciting toward perfect funger scenario

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Once: Can the brain ever really unclassfand the brain?

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Overv. Enseen and other physicists have described expenencing an atmost relgrous averwhen contemplating the laws of the universe. Do you ever teel that way about the bran?

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transponders over the Western Hem-

How can we eke cut the thousands of extra charmin we il need? Solutions range transioling hoge new antenna faiths into space to claiming more territory in the electromecratic specifium.

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## GRAF-TI

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To be King of the Line. The graffs artist must be recognized as perview, for his style orginality and the number of peces the basicip. But a king origin is often beef evice he finds thingset being constantio challenged by these who cover his cover

Getting at subway train extensions is no mean fear it entails infiltrating underground and elevated kay-ups There are rat-infested tunnels, Cyclone fences, guard dogs and the third rat

A ctubenge can be effected by shering, or togging over a weak's work which in your partial to a controllation controllation studies, servicement physical Servic high revenue a studie can for more inundence tercaris the manage into teve of temp presecuted can an acult, or the canes to posttion there attracted within the when the large intere tion active train parenting, there any advance offers to studie there field

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Through 1974 the T.A.'s graffa-cleaning program amounted to little more than the hand-removal of exterior will with no apprecisible interior tags to bother about But with the advent in 1975 of the offen-

Doublinking twi-see paced that covered envyments (microsis included) of one Mamonitod is larger instruction of the coverposition (Faceton Dub in 1937). The cover apparent faceton Dub in 1937 The cover apparent faceton and the cover apparent that the case at one there apparent that because of the dub of the the expenses has been well worth in. This cover apparent that because the faceton of a large out apparent that the case of a large out of the expenses has been well worth in This cover apparent that because the faceton of a large out apparent that the case of a large out of the expenses has been well worth of a large out apparent that the case of the faceton of a large out apparent the expension and on of a large out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the expension of the out of the out apparent the out of the out of the out apparent the out apparent the out of the out of the out apparent the out of the out apparent the out of the out of the out apparent the out of the out apparent the out of the out of the out of the out apparent the out of the out apparent the out of the

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A periodia suck all formits management to the second suck all formits management to the second suck and suck and suck and the second suck and suck assigning members of its Am-Vandalism/Greffs Unit to follow up every grafts case that gats vice court

Most grafti artiste resant bong labeled at vandale Lee seje. Here is a thing that doesn't huit you. When a train correspond of the derkness voornil all it doas a excele your heart make your eyes follow it it doesn't take voor wellet.

At bidds. It these lods was not taking out their need to express their egos, their intests drives their fluid takens with care o paint whith would they be dong? Carrying Salanday right expression? Instead of dealing with the Soul Artists, would the TA, rather dual with the Badder-Machinol cave?

The TA's a determined effects is same way be at attribute best absorbed on control parts. May also a part absorbed to the attribute parts and an and attribute the attribute parts and attribute and attribute parts and attribute same attribute parts and attribute the semical backets and attribute parts and attribute parts and attribute the semical backets and attribute same attribute parts and attribute same attribute parts and attribute the semical backets and attribute backets and attribute parts and attribute backets and attribute parts and attribute backets and attribute backets and attribute attribute of the attribute backets and attribute of the attribute backets and attribute backets and attribute backets attribute backets and attribute backets backets and attribute back

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But what of bulue gratte writers? Will hely continue to paint the trains for the steer py of expressing themselves or will hely too get caught up in the seductions of inme or opermanaget up in the seductions of inme or opermanaget or opermanaget.

The LA meanwhile is buy accuring its years with gaurd drugs more reboning on an antibiotics theory with SR 5 billion reprovement program. Will be new bread of writers the allest systematic theory and the writers that was then provide a drug be writer by the start of the systematic the online to the systematic theory be writer by the start of the systematic the the partial warr? Lee says. "We don it ward bight we part ward to write **CO** 

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Anwar's Call-the red telephone and

Two of the paintings. No Room and Holoss and Spole were supposedly named upon suggestors that Pasak made to a fearth ad admits?

Indianapolis ind

#### Date in of the Kee

Less entrumely interaction in the attrict by Mitch Tachman (Anto-Pilin, Decembers 9961) that december restructuring human gestame as they might have been 60-000 years ago 1 was particularly strack by Desmont Motine supportion that primture peoplex right have lessed by onling they foods togethet from cheekbore to checkbore.

I would live to suggest a different torgin of the kiss: revealed to mis when I was a teelve year old boy I came upon a tomcet shaking an unsuspecting tabby Audemh he pounced and grabbed her nick in his mouth their incurted her Heihold that tight one to touchout the main and.

Every low years inecidithal incident, and livencier whiches today silves right not be daraed from thei very come concurring group. Picture a caleman attacked by the mask of a naarby oxidiang convertmen. Somehow being that his amatical dara vences may be injected his appropriate har canatuly than suddenly poinces on base of well between tables and his mouth. Bits struggles briefly then gives in to be assmal deares. Exen if she worked to continue struggling, more pressure from the biting hold would keep her quet. Also while he is biting her also calind bite him

After a fax sons of this build behavior, the once important beta has had in purpose But the male mark all in purpose But the male marks all tables be and ears and yes occessionally brids neglight. The female maintain accepts this be have perhaps inmentibiliting a primordial grangemorphics expensive.

If this theory is control the kills would probably not have developed to the cheekbane to checkforce vanition suggested by Mr. Morris and than segressed to the common kills will be and than segressed to probably not foot wills and than segressed them during the evolutionary process. Througa don't get less complex than more comber about

Don MoNair Magnolis Springs, Ala

#### Sun-Ed

#### Polict Power

The privace-looking sunwalitit on pege 49 (Construint, December 1981) is ready to defend his condensional from despitate hoods with a pellet gun threight prove difficult unless the hordes are mice or sources.

Denoit, Mich CO

199 CMN

SINCLAIR

CONTINUED PROMINISH 17

this will pass, just as the size of the televsion screen has ceased to be a status symbol. Portages the new status symbol will be a car that you can fold up and put in your pocket.

Sinciair expects that many other basilhistopha with came should with help from his little friends, the computers ha and his competitors have sent out from their factonels, cover legants of cognition. What may come marching back he says is an arre of their locari obacis.

I Think fluid when you put computes out among so many pocode as wand offers precision if the present of computer business precision if the present of the present general bits not fleptened of the present general fleptened bits and the present general fleptened bits and the present general fleptened bits and the present general bits fleptened bits and the present the fleptened bits fleptened bits and the present general bits fleptened bits and the present general the fleptened bits fleptened bits and the present general the fleptened bits fleptened bits and the present general the fleptened bits fleptened bits and the present general the fleptened bits fleptened bits and the present general the fleptened bits fleptened bits and the present general the fleptened bits fleptened bits and the present general the fleptened bits and bits and

It is a hearing theory that the masses Apples, Peter and 2000s of the work/ combined with the harder minds of their users, will provide the petricate scop from which the next product of evolution the intelligent. Machine, will ennerge fancies (over not put in pute scatch storg asims) But suggest to him that computer hobbysis have produced nothing more useful than 30 000 versions of Space Irraders and he leaps to their defense.

Dectors and Inverses the says have wriline service programs for use in their own perferences. They find it easier to do a themaelives their to use a programmer A schoolboy trouble write a chess program for a 2000. Americus are isoneterming the way compared are used as the worth be long before someone possibility an arms law – adelives a nother househance.

Sinciliar wallo welcome it at the theshold. To like to have each in him home, he way. Not the arrivats Chao home, he way high the arrivats Chao hobbs wald move inset human attones software and anywel reset human attones and wais baccausing the wave hit playteen performing operations where and wais baccausing the wave hit playteen performing operations in hyper back from a surgere details the hyper back to an any home and back to be home and years made is periods to home.

One evolutionary stop buttes reports with replace dogs as pets. The human master will earn to be than . I think that a flery to heppen. Sincles says. Excelling And then they I get thougher than us, And they Itake over. There will be no place for humans, and solver, of methypet robots, he says ascologit partages are pees.

If won't happen at his Melene he beasives Thet leaves plenty of the for panar ations of ministure robots to wait on us- and do some of our daty work

Hyring machines the size of bees for enomptin oxide bazz own ore sines, lookrige for imagings includely taffic acirite for imagings includely taffic aciacies provines to be fired with electronic bagi. Torang forkins to twa ander 24-hour surveillance. The proposal angers some one'l licertainem but Sindler happing grasps the nation. Sines and the commuta the schedule size the matter of the commuta the schedule size.

Other robots could wage was using Bunnish claim a version of a mission both games the explosing fortions. Binclass reveal this a logrical later (Ricking the contractions of the ICBM and the cruster mission. "Nou wont to CBM and the tracker for same showly both gat a shop butter has respectively and the foreign of the summarized to be the same of the summarized to be the mission stands." They mission before the mission stands.

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people Lappe and Cohen say this local secrety in an linear. These is already enough grain to provide everyone with any people and more than 1000 caldnes a day they say. And that total doesn't even instudie functive segmenties. Entri and livestock in espense people starvar not because factor and intervention of the post-secreted astrobusion system systems and the intervention system system.

dust sok at Sonora and the rest of northwestern Mexico. Tuppé sign: While the local persents sative boduse they lack sufficient quantities of corn and beens that nch area grows full and vegenative for earon!

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What pain the done about unequal control over nascurces in Senegal and elsewhere? Americans the researchers say multi slop acting diplaterships including those in Zare the Philippines and El Salvador

But the real ensures will come of by white operating appoint control of the hists where more than half the pooptreven manominated during the neuron management to the second second second second second second management of the second second second test second second second second second second test second test second second second second second second second second test second second second second second second second second test second second second second second second second second second test second second

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#### CONTINUED PROBLEMOZ 28

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Relevable was supported to say that no matter how powerful the government the countee and height of the individual can default. That is a dubous premise to begin with but it positively les gast when the dharacter of Jonshen E. (Jamas Caar) converted only because he was more busis than arspne olde.

Worke the votent execution of the prilosophy noticed the first to be avec of a nather loonly pargetet picture. It's indicative of so many finnesizes who undertake somethy finnesizes who undertake soseem values to commit wholeheatedly to them, absolutions and at it. The gets in the way of whole is poets and progenetic in the operate figure parts.

Conversion, when Houseman has cowave convolvee aproperty the neutral and invector of the approximation of dealers presented at the Danset Treater in Los Angulas Charles Loughton atenda in the control taken was which was writon, and then bitterly revention, by Barted Recht

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Challenging and experimental House manificant is always intensioning. Yet it the manifies one overriching talant is as a raccinate, one whase oriequites of people and events are uniformly process.

Singularly entightering is his appraisal of the declina of the Hollywood move indusitry – observations that halp to explain the myopic attractes that govern acrence to too farmaking.

In the old days 'the atabcrates 'no matter how class and dreaty posts of the studio heads wire, the climate was one of anomous passion and low and dedication to the making of movies

Bridghill were closely wetched and effected to solve immunotechnic code to make for the cares provar of neurox, the crossed a need to reprintly and of neurox. Include the public and experiment performance intel that the public and experiment performance products in a material provide the exception perform edicuations. With the exception that and dowing it growth and the corport for the removal in that there is a public to the removal in that there is a public that make the and the solution of the mean were they are and tails as the public tags made means in that there is a public to the interview of the solution of action that means were they are and tails as the tags made means in that there is a the tags made means in that there is the tags made means in the tags the means in the tags made means in the tags the means in the tags made means in the tags the means in the tags means the tags the tags the tags the tags the tags means the tags the tags the tags the tags the tags means the tags the tags the tags the tags the tags means the tags the tags the tags the tags the tags that the tags the tags the tags the tags the tags the tags that tags the tags the tags the tags the tags the tags that tags the tag

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The real has been repeated in a prese to control for all his learning and will, his autheenments and historeas to discuss a history Historean rotuses to discuss a history Historean that at show business prophets are wrong, or at beal they is right—thirty years too early.

T can private the reample that in air years there will be to more mater pecture theaters that everything will be velocid at home. And I may very betwee the to be them. But there a seemingly insteared or cumstance will change that. Peehage a technical important that evens to have no therefore a pecture of that even to have no therefore a pecture of the series to have no therefore a pecture of the series to have no therefore a pecture of the series to have no therefore a pecture of the series to have no therefore a pecture of the series to have no therefore a pecture of the series to have no therefore a pecture of the series o

Another base might come forth and say, 16 more thoras in the same set of the same set well statist the same set of the same same set of the same set of the same set of the same same set of the same set of the same set of the same same set of the same set of the same set of the same same set of the same set of

Upped to select any prediction in which he has confidence. Housening adamany, demure. This so old now, he says that if find for wenry years, is hall eventually be subgozed as wong. Before I was simply ahead of my time. Do







Sendio Orna Deay PO Box 6500 Englewood NJ Ungat Sendi check of money case in US dotters or check of money case in US dotters for checker onder call BD0 555 4797 (encept NJ) Allow 8 wooks for defentra NJ) wookers and 5% ser

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Scoring 70+ = Isriantic 50+ = excellent 30+ mery good 20+ = good 10+ = poor 1 alashing alashing (or starling) staring

2 the herein here her, he are rain rain

(2) If each word is behaviored by a single letter an entrally new sertance issuits (1) 4, securate (2).

- 5 Armanter (2
- 6 containing 171 Magazet of contained

 Cruched' (2) Another telephone pair is amounts and contour. Pramies and awinger come close they have only an ein contende.

8 Each one syllable word turns into a three-syllable word with the addition of one letter; armin alien; parters (2)

 Each one-syllable word can lose lettors and become a two-syllable word ague rugged aged (the adjective) (2)

to ackun [5]

12 Apprils (2) Ep is a place name, of course, but this particular specing was oborged by Queen Waters because the level that three dots over the is ". Unfortunately Waters and not live long enough to see the costator in Austistia of Lake Merie

13 "A notable doctor was not able to oper alle because he had no table. Attributed to

#### ennett Carl. (2)

14 The commonsel words are suTOMD bits source(SITI) sUTGen solv20/this sa saXOPtone langHEON maRUULans (SIMMAlaw) (B. 1 part each)

#### ONE MAN

- 15 phenomenon PHENCMENA (1) 16 GRAFFITO grafiti (1) 17 mdex INDIGES (1)
- 10 DATUM Date (1)
- 35 OPI19 0000 (1)
- TA APPENDING master (
- 27 metrow set
- 22 CHITERION CRIMINA (1

34 kudos KUDOS This word which was not corried by Tims magizane is the Grook, word for praise. Some or glory. The word is singular this correct to any Kudoe was main for the polytemanter. T21

25 COW kine. This is perhaps the only case where a planal form has no lothata in common with its own sangular (2).

#### OUINNESS WORDS

26 asserghts. The longest one-syllable word in English with only one wowil (1) Screwschale and association's both in Webstor's Third' are longer one-syllable words bit asoch has mose than reve lowed 27 fassiscusty Shortest word corraining six voweb (v is sometimes a vowel) in altitubetical once (1).

38 redwolar Longest one-word palm

drome (1) Knewienek (1 heitner) a keind di net, appeale in Wickster Shrof (1) 29 usponstal Shortnet word with twe vowels in reverse alphabetical order (1) 30 aukotanings Longost string of con occutive opropriettis ser (1) it is allio the longest how vowel wordfundt the astrophysical taris Schearzschildradius enters most characteristic

31 minimatogyprics the study of Ingerprises With 15 letters the longer work with on repeated letters (2) Androkekousy correst close, with 14. The potential champeone is uncounty that has up peoned in some government papers but not yet in discharters A nondicionary phase in this category is South Camholys MY

32 overrenzousness The longest wold that can be printed in lower case with no letters sticking up (e.g. of) or sticking down (e.g. p) (2)

30 scimplescent Longest word of the inhistories family in which cach letter apprears twos (2).

34 eletest Longetilcommon word in which all lotters are in alphabetical order (2) [Compare for best eptww.]

 wronged: Longest common word in re inse alphabetical order. (2)

#### **FROPHIES**

- ki AßsConDEr (2)
- 17 minimus (25
- 10 LANDARISTLATY (25
- 9 UNDERgroUNDER (2)
- ID vehiclering/uniter (3)
- estawarpatics (3)

#### SPECIAL CREDIT

42 Bernplus of other To topelings indicate sough new press lise depoil on ass over premer soul subgris poll boosh apropos provati (Score I) port for each operation ary up to the rise port for each theeselver lies convect = 5 parts 15 conrect = 10 ports momentum).

43. The shift of 28 works is a warn as phrasmic based once intri poposed by Centre Boggmenn. Boch ward has a listen? The six being begrean. Boch wards that the six we have been centres in the six of the six we have been centres in the six of the six we have been centres in the six of the six exercises of the been the neutral six possible in centres in the six of the six possible in the six of the six of the six of the possible in the six of the six of the possible in the six of the six of the six of the possible in the six of the six of the possible in the six of the six of the possible in the intervent best in the possible in the possible in the six of the six of

46 wholesome A classic riddle almbuied to Emeel Dudenty (2)

#### DC DE UTIONIO

All derivations on the list are folk styrologies - stones that are arounted to be inveloped and physical as if they ought to be

1 S G S The detress signal doesn't stand

for anything but is an arbeitary selection of writers from the Worse code, the simplest to remember transmit and woogrupe three tots three dashes three data.

2 News The word used to be spelled newes and corres from the French pouvolus.

3. Mind your pis and us. The origin of this expression is not known. Driver appathy us able theorees are that it comes from the smithal apparations of the letters in handwriting, or that in English puts the taxlander kept a record of the parces conlander kept a record of the parces.

(Formation Under Consent activitie laseres (Formation Under Consent of the King) are notsentae. The word goes back to the German Roleon. To strike: and probably further back to Late and Grees.

5 Binp Although the derivation is commore order. The analysis of the analysis of the such designation. By molegists don't agree A common theory is the the word initiates the sound of a larger baing coupped accessed a large attem.

8. OK According to Tom Bulmann in The Dichtemary of Missiformation most authomes agree that DK stamped in the New YorkNew Enr. cnMarch 23: 1840 as part of a name. The Democratic OK Cabb The Obb Composed of supprises of Martin Vin Ruma used OX is an abbreviator for OK/Whitaktionik New York Vin Buron's timination.

7 Builenty This makes a charming tale bui unfortunately it's been builtently for as fer beck as there are written records.

8 Sincere The Orderd English Dickotary stysifial the without wax explanation has no probability. Sincere a from the Lays bitionus which enginally meant clean or pure.

9 Assist This story ought to be true but no owdarce for shae been found in steampting company records. The earliest uses of the word mean other hausy of a dandy, with to evident (defensive) to the sea.

10 Seminars This obvious consector was sent in by Ray Gudegast of LAnse Michigan DO

CPUCHS and the second second



understand ISM, it's astonistand

All the same time he is concerned about the dialoction of American industry all dehirology He believes that the largest crosstisters are searchering torgetering the dealogy month in their of association prefets. The believes the search of the dealogy as to plastificated team particularly in research and development. It seems contradiction to even ther's half you have to have guaranteed returns with it and D.

While the book reads tike a passer to the motion computer Kidder is passanily suspicious of the computer industry it is a periods that should not be unosed

Computers are used. Think to a large degree by people in power to stay these. The computer revolution is the working wood in many bases. Computers have been a prop of the status cub. The stock workings

The Hory is the continues that you can do tempo things with word processors but onfree you can cure the burbauchato monaity that loves papers that no one ever gets to rend, all that is going to do is you make the pottern worke

Rodder further qualitations the "unpetitied investigate of computer technology and is worthind about the terrible ways in which the products of say California a Silicon Velley may be used. There seems to be no confident new.

He is also unage with involvement the matter any participation of the same combalance any participation of the could watch. The involvement of the second of the involvement of the second of the could be any second of the participation of the second of the second be participation of the second be th

Rue to his philosophy he has no deame to own any sort of home pomputer. I don't fink I want to write anything on a word processor. I'm set in me want, he also

The staticises however of the book—the method to low-concert shows the first page review in the New Sort Trans Book means indices to the static state of the figure number of the back to populate the deal to back of the swape high work deal to back the the swape high work deal to back the the swape high work deal to back the state of the swape high states and with the states and the termining the transfer of with the states and and the low work were and the surgities that and on the states withe were surgities that and on the states with the states and the state

While in store for him? Kiddor says he s not going to abandon science and hochnology, but he might try another subject For now he is going back to "just meening lists." Threed a little risk he musice DO



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#### AS A ROSICRUCIAN, I HAVE LEARNED TO CONTROL MY LIFE

Several prices ago es a college student la several editorial, il biored reveal i collecting samp que limit facta that dad neel apply in rev (ble Chi benering about the Rissermann Order. I are aboptical nee garet sami investigaters an useres frequencies, il biotente in manifest—and that sus the most several particle in the ent taken.

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In abort the Roservenan teachings have put metrocentrel of multi-

Today I look welfors request to understand and control the monitoria, and ruly on my initiation to guide me in decision making and problem solving. And since there is no lenst to what I can learn. I will be a Rosenance for an learner at Loo.

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# NEXT OWN







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LUGD DEEANING—Welay you was on a beach is Bernold, berring days of month? I so gother longin — longin dream The number of source warm making you have load cheems. The wind of dreams in whet you consolvely control the above men house pairs areas on Atheapt most source synthetic test as the days of the base was able to a strateging of the synthetic test as the days of the source and the single cheems and the source and the most source and the single cheems and the source and the most source and the single cheems and the source as well as to compare most source and the single cheems and the source and the source as the most source and the single cheems and the source as the compare the source of the source and the source and the source as the compare the source of the source and the source of the source of the source as the source of the source o

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SCIENCE FIGTION - Two time travelers engage in a passonalar naminde to 4d0 some spice to their ter-minging escapadas in flockert Skretherg's socy. The Far Side of the Ball-shaped Curve 1 and two exobiologists study a planet termingly site in extent Farm holds. In Start Bandmins debut story. The Audubol Effect

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The Washington Post commented in an external two drys later: Media anyofine thought to loss up and dial the control probably woold in them team to the status or probably woold not have team to those does at al. The feature to call provide a dramee disustance of how speech variants can be accepted even by these features have an electronic wave of things them a electronic wave of things

Mast unreas are octang more than other senting types of conversalist (BAL some unrease are potentially clanaging, Albert has a not we occurs whose unreas to mate accompany and intensity the vioanica. The keyner Commassion of Cwil Deor alice and the studying times indedwell loand after studying times indedwell beind faller studying subtions and the studying subanism of devoter.

In order to alley runners many communities have assistivished runner-centrel centers. Concerned people can call the centers to roam whether womsome or dan oercus runners are hue

Ruman will always be with us and serve mostly as entertismment—what is called bubble gum for the mild But rumor satio something to be feated As U.S. Army Major General Smeeting Butter and 10 rether tight as satis army than badle on ble rumor ECO.

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## STARS

By Waltace Tucker

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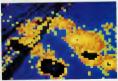
Buttakis seniar to the one have been soon before. A superioval the violent repling result of a massive sits, can produce a subble of hot gas. But the Ovgrup superbubble is to be any solar solar by the normarks of the largest superiorizahas 1000 ance many values, and contans 20 times as much elevalor.

X rays have not told the whole story Radio and optical observations have shown that the superbubble is sumounded by a shall of cooler hydrogen gats, which in owner/deget a rais of about 20 000 miles. per hour as its pushed outword by the pressure of the hot gas. Neal the center of the bubble as a dense cluster of bright young state. Around these is a smeller bubble of gas, which because of its low temperature (10 cc01° C to 20 000° C), shows up bush in the rocks band.

What sies are wirnseang in Cryptus and other regions of the galaxy as corres from a magniticon galactic channe. The drams stateg place hairs is massive cloud of clast and galaxies in our platsy. In our especific but amfait performance have undoutcetly been gaing on throughtoot our galaxy and others for as long as address have meeted

Depending distances from which we wow the spectrade - some 6 COD lepth years - and the fact they we do not have knowph time to observe if from start to finish, we will rever be sure of exactly what is going one togit a cardual examision and speculation address to construct the holewing accertant

A grant cloud of gas, containing arough matter to make millions of stars, formain interstellar space. Perhaps by chance,



X my photograph of the constraintion Gyprus. Large horseshole shaped feature is the superbaddle

perhaps as a tool to the processes that caused the tormation of the cloud in the field preas, one making dist or many such as an atomic the worth of the cloud. As the list operation of stars ago and become part stars, then oster layers exapplicate very reporty That word of stellar material publics even the matter is the approximating pace and or material a bubble

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Supprovablere are produced by one of the moot investment chain reactions imaginable: a sense of supernova explosaors. Some setroisment believe spreif arms of galaxies are simply a their of stars formed in the value of a wave of supernovas that neeked it rough the galaxy.

The law is how to be a set of the term of the set of th

# Dance has a new partner.

Business 200 compositions know that dance as imposition to the people importance to harm. That's why days are an except in seven of American's greatest dance comparing through the National Conjunge Fund for Dence Ban fair year composition ail this one out. Compart Wilson 5 Woodnate. Chairman American Can Comparty of The National Composite Fund for Bonce. Inc., 130 Wes 5085 Proces. New York, WY 10010.

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## PHENOMENA

Here rouge and the state is the reason of the state of th

## GAMES

By Scot Morns

when Dasheel hermind was meeting the living wat a classifier were transmission to the upproval a upport containing the word volacious. They changed it to initial explaining the volaces were might be too hard for the cheert in understand. In another upport they changed similar to another upport they changed similar to another to the cerem rework.

--- Willard R Espy, Another Almanac of Words at Play

Most varies in a relationable in vorte les pois for en el aposton : Les Harmsuit ritrey prote transposten con Harmsuit ritrey prote transposten usage A tex entret assisted with path-forward anonge. They want to know words withmost y make and out, bette by halfer there as as the language tower. They may and themselves togological or logopheral particular to the second particular to the second particular to the second test and conserves. A photoboli to other a moti who to other works

A logologial with all the protects a const bringing home a hou, calights in showing of such Thrudi "as bookkeeper, with file consecures extend double intotati, obtried a perindrume (stability) the same backward and (oward), and ysocalitie, which appears in a citef momin "Mobite" of Second Uniaxviged obtart, under satel but does not lost appears as an entity

Logical plant rank plant models. Those are worth which change to other worths as televes are comoved. When instead and the second second second second word, the process is called a "Detectorisme" (and from the form of a word, the process is called a "Detectorisme" (and from the form of a "Detectorisme") (and from the form There are "characteristic words, which can lose a try angle tofer and all to as word form data (and from the form) and lose at y angle tofer and all to as word words, which walcome new terms (inform).

#### THE WORLD'S HARDEST WORD OUG

In the quizzes that follow the numbers in paranthesios represent how many points you may score for a complete correct answer to the term. The instrumms score for all questions is 100, but you can be very proof of any iscore above 25. Hauter questions are worthinkare. No proper ramme are used. On a segarise sheat, what your best answer for aboth fem, then refere the answers on page 150.

 Sourcing is a starting word because it, can be changed into wath other words by successive devisions from otherent places of one lotter at a time. What are the words? 25.

2 Theses contains 11 smaller English words and you don't have to samange any letters. There is crist, I is another Find in flowr world offices. (2)

3 What is ounous stock this sentence Show this bold Phunkian that places saupher slaupher brings rout " (1)

5 There is a common ten-letter ward that can be typed out by using unly the top row of letters on a standard typewriter (inservice) (Whot is 67 (2))

6 What eight-letter word contains five consecutive yoweig? Its first letter is a (2)

7 On a saleghone disione can apell out the word astrobe by dising 278-7453. The same number spells out another common word, which has different letteria in svory ovaillow. What a the word? (2).

8 What do anixe ven, and came hexain common? (Mitt Think of adding woors to change pronunciation ) [3]

9 What unusual characteristic is among by plugue diupped and niged? (2)

10 The set letters in the word checky can be transposed into only one other English weat What is (7 27)

 The eight latters in the word pictures can be realinanged into only one other revenue word. What is 47 (3)

12 What English word has three clotted letters in succession? (2)

14 In what common words can you and these unikely stings of labers tomo grif, sig zop kep hean rev, omste (8) mit seavy

Here's a quiz idea suggested by Dan Rafass. Supply the singular or plutal form of the given words. Try to do these without lockato them up.

P.DORPE.	
criffiti	
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Some sort. What record does each hold?

- 28 screngere (1)
- 27 facetously (1
- 28 MELYICHY (1)
- 29 proviental (1)
- 30 Jatohshings (
- 31 decemption/potents 0
- 32 avantervoustatik) (2
- 23 apint/feeperf (2)
- 14. advanced (2)
- (C) hannoners (C)
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Here are some carous words with snames later arrangements identify the words and supply the meaning laters 36 <u>A.B., C., D.E.</u>, This word och tarks the list fire laters of the alphabet in alphabetaria artist. (20)

37 Y All missing latters

SB <u>BSTU</u> Contains four consecutive letters in adjecent

39 UNDER UNDER One word begins and ends with under (2) 40 E I I U U E Longest word alternating consonants and

## 41 L L L L L L E Satoon latters eight vowels saven

42 English is a cittlouit language to

		_	-umi24e
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46. What is it from which you may take

Answers to the 100-point guy page 120

4 F"\*k to Old England when two people

War I Betern sector Delicon 3kie B.

6 O.K. From amospoling of all connect"

7. Butter/ly Originally and rates 9 Posh Dogitally stamped on first class

stateroom on the port fleft) side of the shire

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Many books on word organs are replete

plaunible enough to loci people at contrast

Third Average Now York, NY 10022 CC



## LAST WORD

By Nori Renton

A pot of water, after all, will start bolog once exeryone has stopped watching it 9 eveng but robody weekches a boling

Why is it \$581 8 WRECHER pol of water over boils?

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A few other pol-related descovering (k)

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1641 Etsnik therefore i anti proceepide Rene Descentes, adding 1941/1000 pdb are staatid."

1986 Using integual colorities, lesitic Newtons shows that men pause totals in the writter of a pot. This is especially total Newton says, for people with makes the size of Liverpool.

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1543 Using pols Jamas Pressor Joure

translates treat with machanical acts that sevents the test law di-

(harmshundling)

1879 Josef Stefan und Ludwig Botzmern estocistria Irrik between blac Sockes and those lengths cooled primes premon in the issumers United States.

God is cloald i ant stive and skill those poly reluse to boil."

1890, Max Planck learns that polls are sold in classeto units: alten at haldware and department 600651

Taols Lising Gabing Remains theory of ourwal leating. Albert Eristian proves that pote are related to space and term, protectly by a previous memory and term.

(bit) Bestsmin invasiel indext the induced (distorus) behavior is watched point index ballet and thy more norustation if a watchast pot stoke indext balling on coll mer years index weathing it 5. Table appears as a bolicitore in Happen) and Watchastast's information Mathematics, July in o consistents to Note mere at Hubble Interfolion.

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