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# FIRST

By Senator Claborne Pell

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### LETTERS

### COMMUNICATIONS

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### THEY'RE BACK ...

### FORUM

By Nina Guccione

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### SIMBAD THE SEER

# STARS

By Nei McAlee

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### WATERGATE

### EARTH

By Rich Levine

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### VIRAL INTRIGUE

### BODY By Richard Walkomi

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# SPACE

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### STIFF SENTENCE

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By Paul Rooburn

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# ACED-OUT MEMORY

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The race is on to regulate the deposal of

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In locusing otherion on the garbage postern AllS injurious law performed a valuable postern de la valuable postern de survivo. The postern of state is finally incolving webspread offernor in 1978 before anyone had over haste about AIDS, the transmisertal Protection Agency (EPA) that is set down scene russe governing the algored of infectious waste. Nothing was concluded.

oldrif exist" says Jacquaine Sales the EPNs chell of regulation development for land-disposal restrictions. "Nel know its a good idea to put needles and scalpals in regid confinement (but what about a BandAid with a few drops of blood on #7 is that really council to seemed desense? The northlorn is, we don't have any data " Theselo nothing out there according to Sales that experts can look at and low. "Gen, we know pital and goes to a landful will rifect some rifeo dont know Sales explains, whether burying infectious western a land'ill allows crisanisms to survivo, migrate clowrwant

a bill to require intectious waste. No exidensolocist or other medical expert who

can family creates every day. Welliam Ranos entensue Froma purely scientale dence that suggests hospital wasai is more

hold waste than they were in hospital waste. taken from a surgical unit and a russing

with communicable diseases such as hapsays Wither W. Bond, research manufactogist in the Hospital Infections Program at

Adanta Etakos oroso and sometimes refected with the AIDS your. The research credibly low number of vruses per milition of blood and the smaller the number of

For instance in the HBV Departs (3) militier of blood-equal to about 1 floors

handred bugs in a militer, depending on Furthermore the AKIS visus is a length Only have reported cases of health-care

taminated blocks The hopates B will however is not

easily isliest According to CDC graylomes ogist Craig Shapiro. Trincentis B requires if soverall weaks later. Hepsetts 0, the AIDS is a blood borne, sexually transmitsympa or a splash of infected blood in the

The bottom ine While the rek of conteacing AIDS though infectious waste a from hospital garbage closs exact "Wes should en on the side of caution," sugwastes. We states should requiste two types of waste "ne says. "Slocks and culogy labs and other research labe should

be carefully controlled. The other he says. taners out of the public's reach ulatin afficials are overlooking the dangers cal labs small clinics. Even the bill before origin of that waste makes no difference.

Congress however still believes that garbage is a state and local issue. The mede it to the House floor. And state gov. emments have payed new bills on intecnew laws aren't creating an intection free santary landfile, hospitals are forced to

requision of infectious wester in a Letter In the Hill | Sales says, the committee supwaste to expensive commercial increastors, while others hire private hauters to "Don't kurget, the catellite photo man self-be watching you." tor-olim up to 500 miles away. What's

ARTICLE

With declication and simple letescopes, amateur astronomers are helping to map the universe

# **STAR WATCH**

BY STEPHEN S HALL

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things, may have wiped out the dinosauts.

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Robert Owin Every became unetlect the pastor for one of several Linting Church of Hazelbrook, New South Waters All right he typically whoels his telescope out of the soling out the barbse, and sets it up on a perich of corrorete next to his driveway Than astronomy has yet to design a computer

that can keep up with him. Evers has committed about 1,000 celto 700 of them each month weather and moorglow permitting. And so, for yourn-Evans examined a 'very tent' and defe monly out of place smudge of light that had NGC 5850. Convinced that the object was a previously undiscovered superrova, he softens: two hours laser he was on the horn to the International Astronomical Unions spoted yet another supernove. Soon ofter, Just been discovered

Serce 1980 the Berkeley group has tours in this coroury. Many wore environwith a self-assembled lan-inch reflector are marked—like notches on a gun-alond migh that amateurs have nothing to con-Everals achievement is "truly remork-

Harvard-Smithsonien Center for Astrophysics. In spite of their auchisticated with his eyes and his marrory. he says atour constallation. Others include his fellow countrymen William Blackeld who discovered his furtherth comet last Au-

could rival the Berkeley juggerness never them all. Selv. who gives guitar lessons for a lwng, has personally decoward some sphi) 12 corres on their perodic returns 16t another amatour Albert Jones of New Zeeland, played an unheralded size of what century Supernova 1987A rackured to be ruary 24, 1987. Livewerely of Toronto as

Not all irrestaurs can make an immortal

 Amateurs assume all sorts of posturesbobbing in hot tubs. lounging in lawn chairs, or

perhaps even balancing on a ladder white peering through a skylight on a winter night 9

When an emateur astronomer leaves a building and open out. says Heather Cou-Intuition to finding out about things and own mends. There is this kind of securit

In pursuing this communion, emalgura frough a policht on a cold writer night out the light and they I stand in a gale if they have to one as a said is particularly

Impid then) They'll even hang out of a of binoculars. Manhantan's belongueted tors turn off the spotlights on the Empire soned to lving in Secut. Korea patiently before yearing, then payently account Hosey an arrateur in northern Erpland unhappov expensence of being lemporarily detained by a police suspeart and conmally suspicious for a man to be proving Deport and other correlations. "Three

But why do ameleurs play such an importare role in modern autronomy when scionces? In part at least it's a marter of Durliop, president of the 3,000 member it talls to arredrum to lind out when some-

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The amateur contribution to astrononly—at least to signification in not ensignif cart according to Manuden Some 1919 nowas and about 0.03 percent of mirer pienes. And today afforciation dock-from Influte to an area once sololy the domain ments of objects in the sky allow astrono mers to calculate their orbits it

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continue to make noteworthy observations. The order full-drop drametur solutiontoris filter form the drop of ametur solutionony is not with talks of important labels.

These is severify-feet-very old George Account of the Control of Description, Designation who is obtained overy common of observational processing and the processing of the Control of Description of De

impacted the photographs. With greatful results are supported by the first same largely unabled to the all by Mayer saw that he flube Goldbarg roothig don hapten had indeed captured an exceedingly tate codeabil event—a star in the process of blowing up. "My strength was my gnoration. Mayer says now." I definitional couldn't do it."
With writing roots frame. San financiary

amateur Bill Somelis decided he didn't want to be bothered by gremins ringing his doorball on Halloween in 1986, so he chow



# THE GULF WARS

BRUCE STEPLING

things change, the more some things stay the same PAINTING BY PUDGLE HAUSNER



Sincial roam within the city Group of backbrandop thinks a could be bloosed in the managed that a could be bloosed in the first washed blook of a Mosopournam by Blossering amplied wringped the filelands in glase. For this moment, the suggest in the Blook that I was take the to decent the file of the supplement of the country of companies and in the state of their open registers spill in the shade of their open registers spill in the shade of their open registers spill in the shade of their open registers and the shade of their open registers. The shade of the country of managed their spill is the shade of the middle BL the similar law wheat complaining. They so trope expected much 1-Mail and the first the file feet expression.

Hall and Bel Heeft the two enginees were one carried to the two enginees were one carried to the carried to the carried work was to the state of the carried to the carried to the carried to the carried the carried to the carried to the carried of the carried with technique to entirely seaso black works for the carried entirely seaso black works for the fer and

ermoni issue black woolen torts for an army of as thurded man, yearn equipment "No compares of charges freelyware The Meet fair Laggery Processor, or engr The Meet fair Laggery Processor, or engr the felver 200 Chargery, who were row or unlargery referred by ancommon of the roses that does no no contrelled of plannors. The armaneing traces were rightly armost Black young submission. The Budyprocess had unweet a supported the Earms aggress or well as a possible of the Samma or proceedings of the rose of the submission of the proceedings of the rose of the control proceedings of the rose of the submission and the control of the Samma or proceedings of the rose of the submission that the control of the Samma or proceedings of the rose of the submission that the control of the samma or proceedings of the rose of the submission that the samma of the samma or the samma or the samma or the samma of the samma or the sa

Be-Hotel microhed another the calandbread steins gouth-eyed account in plains at the microhed walks of the enemy city at the microhed walks of the enemy city systemseadly mywaped the governamped list die groeck of pairs associated and the walks of the microhed walks of the microlated and the microhed walks of the microlated and the microbalanced calands to soon the same and elementation of the microbalanced calands stood in lose of the object cames have been as an advantage of bester that the cay. Four large soon organic occupied at the walk wind a microhed walks and a micropanical decision of the micropanical decision of the

his glabed seeves. "May bol imps that you May the dehonesis Lamadhu does up you weed." A boly starp starb bounded bein this acception, sheet. The Assyrant has the seed of the start of the start the categories round lamadhu sheet fall the start of the start when things were could the start of the start press. Bet Health sourced of the distart press.

Bet Hesh's squirted at the distant prest and spat a data pit into the ocher dust. "I'm getting fred of him." His companion crunted. Hall was a low

His companion grunted. Hall was a loan jug-ented en passant with the clover hands of altern stenger. His humble family raised banks west of the flight.

Like the red of the resp. Hall were a horse independently like and harding vermisor through at the knear, he have gut wernison through at the knear, he have gut was contracted by a thinck clogger bett with broads, contended selections strape of older towns teather I stall that them of this concal hierarch to seek the black engrises and like the selection with opening and. The like the selection with opening and if the Selection selection is the selection of the Selection selection is the transfer of the selection of the large name.

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But hald a subset bracket were from the potary carbon 1 to tooled largraph as a large interpreted just jurg at the converof the birt. Then weeks warehr the most field food pound water risk file just along with find pound water risk file just along with the displacement of the purpose of just 1 hald in companion as just 1 hald suits yet 1 hald sould be pushed a before suits yet 1 hald sould be pushed a before suits yet 1 hald sould be pushed as about a grant of contains results. In all all the pushed was not a 12 final flower between us from the con-

services seed has patient "You can't break the seal until Interns Moor Goddees is full Otherwise you get the mps of souring And once the sour imps and souring And once the sour imps indicate they have on time studies on a loss. Then any been hermasses implies a well be middle or any been the masses implies a well be middle or any been the masses may be a work lack eight and a grant application. The first time to be the time of the contraction of the contraction.

He made a quack luck eigh and sport were. "Usen no the laig brewer," Bet Heste scotled. Half snipped the cannificance with his snipped the cannificance with his dispers and dispersione end in a bowl of prich. A brewer gets respect in the Peasants have no Name. Gircos are of here.

arceteach:
Bill-Heath hinded him an arcethead of crustely pounded pig ron: "Listen, Halli shain a brewer decent get mip the until hes out of the army. And when It test test." "The goods give luck!" Hall said pously. Who knows? Once I was a basefoot peeswat New I feet for the large in Blant Rice.





Therei's always more war for the likes of us," Bel-Heshe seed. "You don't need a muni-Hall shrugged and selected another

care "#Toould just get my hands on some waved one hand before his meany rose

The Elemite prophet's vacue acreeming Socied across the camp. May you drown and search the world forever for a grave! May scorpions till your atmosti-

Their carrier approached on one of the

"On your feet, boyc General words to

Bel-Hesht and Hall scrambled up in plann. They checked they despess husped captairis horse Dust as the as four pulled from the trampled paths among the lents.

think his known were harne-brewing? Hold walloo us for sure know demons are issering

huge bluebottle files as they welked past Hall appaied "How'd you live this look

"My kicks time" Bei-Heete said. 'Too bed.

The captain demounted near the closed vanished neide. The two videnins warned

blocks of died tish, empty oil ars in toppied heaps, dusty sacks of miles and hartent. The two men ducked and strapped

into the increase-ineliana sharinwa. They spotted the dam gleam of the General's

Thank you Lord General! they chorused. They both may to one knee. The General was huge with thick, powseemed to weight balf a lon. Scars from a Ion hunt streaked the side of his face vary. Generall

creak of armor lacing and glanced at a clay a while now, haven't you? "You were with us at Nepput" he said

"You Lord General, Bel-Health and 11

meen, no, Lord General it was an honor to The General's camp skill appeared from

She began to chase thes with incident The General's eyes gittered under the cold-chased rm of his helmel. Get much at his earlobe. A little Lord General." Gymbled a sil away by now eh?" seed

the General, with the uply strile of a man who priors the weakness of inferiors. here you bays sook your share of heads "Wolf yes Lord" reed Bol-Health "That requisition and display Right Heal? What he said Lond: Hall modified General asked. Yet old man with a sty in

merry heads, Lord General Fighters, Ico

Bet-Hesht ownlowed doubtluly "We

shoulders "That loathsome reboi was Governor Nam' he told them "Our king to the King at his palace in Ninevelt," his elements of my Mountain-Lescorce Pipages had contracted the tracer Nam the assessme power of His Mesenty and places at each side of the entirince told-

gester Lord General, Bell-leisht mur

His Mainsty praiged the Mountainsolders who avenged his honor should be boys You're to be given Names"

Names High blurted They flund them-

The German called out to his orderly The General bent over a table with a Glass fooded the tent as the order's looked in Tell His Eminence I've found the hemost the General said. Ask him to join up have been with the Mountain Leepers guiltin his vaice. Go on in back, girl. For farm's ration. The General's girl rolled her kohlvanished through a bead curtain into the

The General presured brusquely "Got up boys you're in the way there. Go over

carpet into a corner of the lont, grinning at each other unable to believe their luck. King's inspector, His Emmence the Baru of night. He came in secrecy to take omens.

of our success bloss the camp, and exyou two fine spiciers are corno to make a nerce Understood?" "Nes Lord General, the men swid build-

The General turnori away for the mo--ment and Hall and Bel-Hoshi traded answith outsiders and standards fiving, and of the King Ismself, appearing like magic could even get into a state of grace. But

The Mountain-Leapers' chaplain Father Semanargal crept into the tent looking bowerp as the Barus retirue appeared They lorded the wealch to tramble before takes. The two masked men hask their The Baru of Shamash entered last with

> cluddled a short stall of office is made of knob dispicting an adder's langed head He wore a sell brimless hat of layered black.



The One and

white-commed eyes of a dwner

Spes The said. The Elametes have spea The General tagged at his beard. 'Well, His wains dropped off as the Baru stepped

stilly lowerd Bet Hosto and Hail. The Baru stared down at them his bloodshot eyes narrowng "So," he said 'Hare in the shadows'

haroes, firmnence. The head takers. Pr-The two soldiers flung themselves to the carpet. 'Blees us Ermerce'

No one is above suspicion the Baru sketched a protective aigh in midsir He Bol Hoshti set up, trembling. The Baru Now you." Hath see up and received the

There was a kind science. "We driv rave

at last, unable to bear the soran "We we plotted to dank." Bei Host tmoared. We know were servers, Your Emmence! Were not worthy

The Baru, excellent, modeled. You gare You must be purified and in a state of grace when I present you with your Names behave a test here. General?

Why yes, Eminance And a women to pour it for you no Why, I en that is-" the General began

A bath? he cred replacely. There's Do you know what it means to be given

a Name?" he said at last. Do you tuly know In the beginning nothing had a name and chaos alone rousted " paid the Baru

When the heavens above were yet uncalled by a name/When so names but

had been named When there were no some and rapid/When the language of omen was mute. . \* The Baru destured

Without names nothing can be: the sted. The gods have had no name for you You have been common men, mere walkers upon Earth airrost as beauts 1.4n

Named Men. Blacks to our Kno's practs and his regard for your loyalty The Baru paused "You shall be dearsed

on what I have told you I shall speak to you again at confession He beckgred to the scribe, who prowied

grat, a word with you. The Baru and the gan to multer together

The scribe was a middle-epot psy man with thirning hair and watery, myopic oyos. language of Sumer and sipped the bag's small cylinders of alchanor turnied cut. the two solders. Halli overcome wiped many lears. Bol Heatel birked hard sov-

there, you men become true prizons. You Name You can own sloves, who will corry

The scribe opened the flag of his wicker tened brick of damp clay. He took grie of the seel pylinders and roted it expertly He held the damp brick belong their eyes a four-winged god raising his arms in Eleasing before two marries, writing ante-

lopes. A column of tray currenterin glypha for them. The who smore the openies of the cods in whom the King is pleased the der. The scribe turned the tablet over and It showed a sacred paintitue and letter in her aspect as war godgss, carrying a bow

The scribe frowned "I suppose it could read the / feeth, with the sylabor interpre-1000 That a rather difficult character. He wiped the seek carefully with an



prompt widely "It's the most worderful not?" He slipped the seals back in their back cally speaking, this is a fricel dangerous time. Your Names have been chassled and not yet established you are neither Named are most active. They swarm about things of chance longing to select your Names, your spenual reality, for thermelyed

The Georgi ignored them "But Fire The Baru glowered "What! You mean to Lamashtu's Name, General! It's a wonder

such literary. Three should have been a not for your stout, if hurstle protection ranking bary or at the very least a property. Things, would have been far wesself. He Irraned ashpultere at all times." The scribe liunted to the General. Yes, there has been

been spuring his venom over your men Father Servanurgal cast hirrself water o humble army chaplain! I should have

known I was outrationed?

smiled "No good Father Sernanurgal II

women shall be taken away the granares that coesthood shall power the battlements, the hely places that be sacked, and A crowd of excited soldiery asthered repwall, nearly one hand his lingers bent in

weten Water commands of Their old man

The General stared ofter him, open-

mand, hesalds blewther trumpets, and the 'army's standard was serred by bearers brass cymbals from beneath their cloaks They pounded them nosely as the crowd Garned gway by excitement, the Baby Bel-Heshi and Hall jostled for a place

They samped up and hurred from the clown over the battlements, leaning on his straightaned arms. What rackess brays? "I loworthy man" says the Baru symply their with your ourses to sawn your town from those whom the code command. I ngyor seen my Jike before I am the Baru lowed by a ragged cheer. They had not gathered around the standard. The Baru



Bel-Health and Halls frontered, made The sosbe glanced over his shoulder mission of the flaru and the General to re-"Good idea! We hear and obey," said Bel-

Hwith Both of them were threed at the idea of escaping the General's text. They oral There they wasted, with heads low for

knet at the Baru's albow and offered fam. You have been reading the animal The reader nodicied garrely Tindeed II have Placus among the horses

eral lought "You're spiritually outmatched the carpet toward the Baru and the Gan- hare that a the problem. No wonder this siege has dragged on so. You should be hallowly to Susa by now But this Elembe, believed with absolute and tempying one-

CORNICER SEEDS FROM MOROCCO AMERICA ROCK FROM SANDAY A JUNES ROCK FROM TOWN TO CARRA RANK FROM POOL FROM TO CARRA RANK FROM TO CA

damage done but that is past Baru rased his voice to a boom "Call forth your men, General The day's worst heat is over battle looms! No more shall your men shall go forth and do spential bettle with hem and crush him utter vi. The Baru des and threw open the tent flaps with practiced, dramage gestures. A dezen cross-Baru took a deep breath and stopped out into the clare. The city talks tonight " he

the portly Father Sennanungal to his feet "He's great et?" Servanuegal confided, almost stappens on Hall's hand as he found "Losd General" Bel Height and from the

What? And may this? Call yourselves not

to shelter him, but he waved them back checks above their heads non forward to The Baru ressed both arms: 'Come forth

NUMBER OF THE PROPERTY OF THE

mouthed the resched down and helped contributious of safety ignored the

The Flames property had faller select as waved his sheld bearer aucle and gazed

becaute resize to belove, that this most the wats. The Garcesi left it, loo and turned but isomeone hims to reconstr? To put an

The Baru was pitiess. 'It will and soon When your king's head hangs from a tree

and again we've said 41 Why such med





# TYRANNOSAURUS SEX: A LOVE TAIL

BY SANDY FRITZ PAINTINGS BY RON EMBLETON

Birds do it, bees do it, but how on earth did plate-backed Stegosaurus do it? Dinosaur lovemaking, it seems, took more than just a little skill n a bagin fall day Boverly Heliderad combed the hill never Chapters Nexton is service about of mide how the home in Beth. Bogland in a garry somewhere neal them is level-bot least of dinoses forms recentiling a classic bore-showed day beautic anapted in hell was unsatted and classified in 1981 as the beliefer sometim of a ment main Hallstead come raccos Scribturo humanuse while dagging through an obsoure eighteenth contury natural hastery book, and with his hered Alan Changing he propared on an icle entitled. Scroblam humanum— The Firet Namered Dimossia", AD William Ball, who helpood Hallstead with some measures, and a Dr. L. R. Choice, Chilantia.





History, were both ministored in the price. There we had Scroture humanum advandingments to the Cooks and Ball receils Hassead. Unfortunately, Clierry, we not permised to publish it with me. I don't licrow why not We were all adults? Hasse why not We were all adults? Hasse why not We were all adults? Hasse which not not no ministored by years of feditived in Ahno, India, and by years of feditived in Ahno, India, and

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way he stands alog his own mountain in palameticity. The necessarisation of old clinicisari tossis and the discoursey of new ones have light loss discoular information explaisable, yet Halistatia allow withos and speaks candidly of their sex hists. Suitily other people have thought of their law to the properties of the properties of as far as I lainew, the only person to go into mind on it. Yes the Halistatia doubt print on it. Yes the Halistatia contribut on a

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to close its 1987 conference in Bellest

Haistend of the crowd's reaction. When

that nothing too upsetting had transpired.

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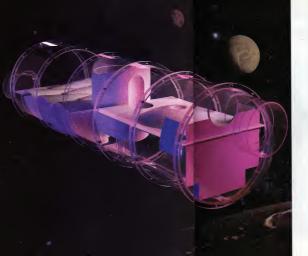


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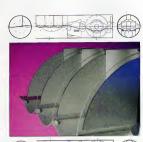


How do you get around in this twenty-first-century space house? You might try doing the breaststroke

# LESS THAN ZERO LIVING

ete last yeer NASA moved a step closer to a permanent presence in space when the agency announced which scace ethick would begin work on the space Dougles, General Bactric, and Rockwell-were chosen to design and build the historian and laboratory modules of the space station as well as its support technologies. One person who was particularly interested in the historic announcement was New York City architect Mi chael Kell Amspected descriet-some of his works one in New York's Museum of Modern Art.—Kalif has been quietly working on a spece station concept much more futuristic than what NASA nizes to put in prod in the Nergogs. For four years he has been designing what he demodulin fiving puerters for a future station crewnot be placed in Earth orbit until sometime in tray will be around in 2060 to see 4. Only preseries a scale model of Kalifa design to give marders an astronauto-cive view of the module Kall envisions his creation as a two-level









national monthly blames, imming mostings at NASA. Introduced the uses asked to make up project blanch of introduced to the NASA technologies. To design an introduce soon.



space staten lving quarters.
Once: How did you initially approach the problem?
Note! I otherted designing later creary. Subjectly I realized!
was cleaging from the point of view of being his on Earth. The floor plan! I had here increed to occusion.











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# TYRANNOSAURUS

herefic Robert Bakker Bakker, whose theonics have broad paleonicologies to enfierk many long-held beelers agross that decourse played an integral raise in disostant see: Which an elephonic fals over on its side. Bakker ports our, "librodish into The Bally big discussions the eighty con transitions, would have had to position harmonies, any capelular."

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in Halshald's new mounting intertweningtals theory All 11 members of the stugcour clan sported plates or spikes that bets of a rea-mounting rate. The stage sail problem become septically positive when considering the case of one of the marks statemen members. Reinfossanus. Shaped thes 350 flootistigspalar but about that the sail exhibitions that basker cafe, latter than the sail of these case before called the Pendholarish. These case believe that have made season reference even more dragerous and haugh with problems. Intelligent provides the notice of Knotice of the case of the case of the case of the object of the case of the case of the object of the case of the case of the case of the object of the case of the case of the case of the object of the case of the case of the case of the object of the case of the case of the case of the object of the case of the case of the case of the object of the case of the case of the case of the case of the object of the case of the case of the case of the case of the object of the case of the case of the case of the case of the object of the case of the case of the case of the case of the object of the case of the object of the case of the case of the case of the case of the object of the case of the case of the case of the case of the object of the case of the case of the case of the case of the object of the case of the object of the case of the case of the case of the case of the object of the case of the object of the case of the case

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CMAN LODGING OF



Exclusive report from Beijing: how acununcture really works to kill pain. One of China's foremost bioscientists discovers the neurochemistry underlying Asia's ancient medical treatmentand a new pain-control center in the brain, too

# INTERVIEW

J-SHENG

is he walked across the campus of Berjing Medical Cols hy walked across the campus legs (now University) one afternoon in 1955. Ji-Dherg Han was so originated in the experiment he had just need about in a neuroscence puried he oldnit rights that Or Pana Resona, vice president of the college was standing beside from "Dr. Han, while is your opinion of acupuncture areathe thirty-seven-year old lecturer in physiology, and furthermore he two winessed the removal of a lung while the patient was or liver but some like the "governor vissest" or "tiple warmer, each hand and locit For 30 minutes before the surgery tour acu- and By inserting needles into various acuponts, the acupuncpurctureds had twiled the 40 needles. "It was so complicated." Turnst describes the access or replanetives the undersupply of city.

which needle. I saw that it worked "But no one knew why Acron potans is one of the cidest medical treatments. Authorses claim that ancient Chanese doctors practiced audimentary forms of a palore the Great Pyramids were built. By Christ a time acupuncture in the East had grown into an elaborate system for along musble pathways called jing or meridians. The 14 mean menders generally correspond to bodily organs like the lungs. recalls Han today, they had to use a signal board with signs and to the vital organs. He thus restores health, or dynamic equilib-

PHOTOGRAPHS BY GILLES LARRAIN



←Logend has it that acupuncture areas when some whagers noticed that a warner's long-standing malacles were mystericusly cured by spear wounds suffered during a battle. No one can verify those legends

loss throughout Clima triend on Medical contribilities have been been been contribilities to have been been contribilities to the contribilities of tolk of the contribilities of the medical or in shough the mysterious links between the violating the evaluation of the medical or in shough the mysterious links between the should be the contribilities of the contribilities than persisting the section than contribilities dates the first territorial adoptions to executive stagles. He to be seen a section or possible to medical cloud be the medical contribilities of the contribiliti

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He bogs is exponential or in its animals monthly measure; the effects in the pain is many animal to the pain is a pain in many animal to the pain is many depending who are in placetion that animal to the pain is a mental pain in the pain is a three manufacture and is the measurement of the product or the product analysis if held bears of the product analysis if held bears of the product analysis if held bears in the product analysis is a three pain in the pain in the three pains and the pain is an in the pain is a pain in the pain in the pain in the pain is an in the pain in the pain is an in the pain i

Those suspicion were confirmed in 1970, when Junh Hughes and Heart Rice will be a Meetiden. Stortlend depowers the molecular functioning of wilespirate. This amend peptide. Functioning just like the particular register of the promoted and particular registers of the promoted and particular registers. The period of the particular registers are supported by the period of the promoted of particular must colors. Here peaked the needed drugs specifically artificiated on one to period and service or the promote service promoters used for periodizing section of promoters seem of the peaked of promoters. The peaked of peaked promoters are promoters. The peaked peaked promoters are promoters. The peaked peaked promoters are promoters. The peaked peaked

acupuncture in Hens typically understreed words. "These tests were telling us a good deal more than how and where acupuncture worked. The scentific community did not fail to

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Lincents Andread July to established the Massicianism Research Center there to further propose originate in neuroscience will result a propose originate in neuroscience will find a time to take it is body grand-dauginesto see the product and office and the sound will be also the time to take it in the control and the sound will be also the control and product and extended and electromystics. Parmy to implicate the sound of the control and power favore and taken the control and power favore is taken deep published and electromystics. Parmy to implicate the control and power favore to the party of the party of

Han met with writer Douglas Stein during a brief hip to New York City. After this he was off to neuroscience conferences in Hamburg, Murrich, Vienna, Bud spest. Sydney Adelaise and Hong Kong.

Oresi. When and how did acupuncture organize? Hair: Thisre is no end of conflowersy. The Yellow Emperor's Classic of Internal Mack care often cated as the detentive history of acupuncture, was not survivously by the law Emperor. Hugg Ti, the founder of the Chamber Hugg Ti, the founder of the

low Emperor Huang Tri the founder of the Chimise mattern in the lifth certify visit it is really a gradual accommendation of deciments and commentary over many centures. The commentary over many centures. The commentary over many centures of sculpsockure is leventh-four fundated of sculpsockure is leventh-four fundated.

tke the syrnop Most of them are one to four to five inches, to reach, say the penostourn of the femur Dang bone of the sharp edges from draws a picture of a flow out. Usually two to four needles are put of different poets and twined after nately. If you are freating heart drawage, for heartbeed, one to lower blood program, and Owny Haven't the mendions been charled Hen: We don't have thousands of special charts for the horse and the ox, probably were concerned with keeping them healthy ably. To give an example Bartus number top of the head in a human. Yet it is in the pernoun large between the anus and

tion the skin resistance along the sup-Onse Teachorally aren't these many dif-Han The classic Chrose acapandiams Ottos: How do we register pan? vanous stimuli such as temperature. fouch equipped with specific sensory review that

Hart Many groups throughout China are cated near the lint cervical veriebra-for looking for evidence, but so far no engramautima raisf-are very important outsi or electrical resistance, when you resert a needle near the end of a mondan. They we hundreds of people. During the

Oras When was the present system completed with roughly three hundred setstuely began with people using a small or press the skin. The bear stone was re-Dynesty around two thousand years ago placed by bony needles, and after mose reached that point sometime within the cherrycal Besis of Pen Relief by Acupuno are many extra ponds, not suit the three reekzed this pressing or preroing could rehundred satisfive. For example, the sostore if people to health. One story trait if that acupuncture arcse when villagers no Tab was F When you press on the classeed toed that a warror's long-standing melashoulder and bothe most painty point, the des were mysterically cured by scenar between the ends of the evebrows-often Own His sparps documented the exist-

years. So acupuncture was practiced when

Omn How does pain sensation havel from Has! The information for pean is first sent to the dorsal part of the gonal cord. [The control gray matter of the spenal cond purand and ventral-numbing penaled to the long are of the cord I From the dome! fast conducting systems that inform the

€Wa tosted

day it looked like

a factory, with acupuncturists sitting beside

volunteers, and technicians operating the pain testing machine ?

Fissue destruction reference potassaum for

many other pean-producing substances

sensitive to chemical substances such as in pain resistance came from some sort of distraction associated with the manipula-

Drack: How did you begin your research? Harr We began in 1965 by making sure officet. We inserted repolles information to see if there was any pain reduction. Becases fee pain felt in proportional to the terminals, we fined to introduce potassium sors into the skin by electrical charges of cheef abdomen back and legs-right body areas in all. Without acupuncture the an acupruncture needle was inserted and

The cortex basically evaluates or makes decrears about pan impulses organized becomes a successful lowyer one relonger propietts one's own briefs-one just propers the brief and the cerebral cortex

Gress Where in the brain specifically are Has No one can say at processly what point the hisopers, but must physiologists agree bral cortex above. While furniers would

Harr Early in the certury neurosurgeons center of the brain and kill the pain. But the pain impulses switch to another. One cautersystem or chemical destruction, the made quite sure that you carried selep-

organs in different aramats are presumed sation. The remaining are the slow-conmiserable sensation. This slow conductThere are less expensive bourbons.
There are also thinner steaks and smaller cars.

effect would be present in the CSF of the slobs that responded well to acupuncture

the skin around the robbills nose and much the paper is always excious the

the heat. We used as a donor one sibble



the pain threshold drops of such a specific rate because the unknown substance is no langer accumulating Ornal How did you go about hunting for the medianasis substance?

perfectly with the expenence of the arrestoesploreds, who know that it takes said

Oran How long does the resed per

Han After half an hour of acupuncture the

dropped substantially Most interesting the rate of decline following remarkal of the needle is very consistent over a large number of observations. After we aper-

We tested hundreds of people During the day it

In the evening I gathered all the data Using set a calculating ruler and graph paper I

barren I her batch

These tests in the convented me that accupanciarie isestment must be producing some substance with the period building some substance with the period building of parameters that there is building of parameters are substance? I hypothogood the nevere was

Wild discrease reportments in 1965 and 1966. The name leads to Equipment to 1966 the name leads to Equipment because we had a Cultarial Revision cultaria. But had a conductor that a conductor state of the system of the Cultarial Revision of Region in 1966 it was a more bectumer option to the conductor that the state of the conductor that is the conductor that the conductor and the conduc

greater remeals in brain servicion after acapanium Three-lests, controlled virus 1972 to 1974 diemocrisiales sindomini no acapanium sindomini producti or acapanium spinikling rifect Cessi. The discovery of ankaphalin must have changed the direction of your research consideration. One was from John Harghes in Sootland, announcing the structure of the enkaphalin molocula Tha structure of the enkaphalin molocula Tha

went and a medical school I didn't stray too

hour or two every morning when I was soo

I was always kept right around Bering so

ters That a wire

tonin levels began to

verse-we gave the

Some of the people who had abse encounters with the object fall they were being probed.

# AUTI \* MATTER



# UFO UPDATE

The first think the first term of the first term

### NEW A

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Ambition describer a sentimenting util nos. But nos. — Under's House unwest Museum on open to people who can't get a greater and the people who can't get a poole of the people who can't get a poole of the people of the people





## TRASHING

more officials find new regulations hard to enforce. The costs of disposing of hospital

Indenapolis chicken found the infected

and syringes have been on the books chanced in 1985 when sentation workers

theil some sanifotion workers stuck by

wiste must be burned, but city run incinerators don't meet apecasi "burn" requirements for infectious debris, so hospitals are You'de as only one such facility exists in the energ state located in West Babylon.

private haviors. The minimum price tap for

As the number of AIDS entents in the alton in 1965 mose than 40 COO pounds of ident for requisitory and professional at nonerators-1 of makes the price so

⊕Bingo,¹ McMahon sings out. He rips open two snaled paper bags. A mother lode of poortios....

hundreds of them-sails anto

It's a flaggant violation 9

council eracted Local Law 57 in 1965 it.

warmental police officers. hired to ex-

On a Monday morrano, at 7:00 x.w. Tom

fectious hospital waste is burned. This is status and three Caribbean countries reprail trash is trucked in here and forkified into four movable grate overs. The cative

McMalson weering a light-fitting khaki made him switch to gerbage collecting in at a health-case anatoticn; in Now York Cov-

boasti: A Reigh Kramden look al ke, gravsweet smile McMahon gets evengelical

know whather they really resed to pestect

Now they will chaose at random two

Brigo McMatter arrayout Herburgs diagona through a few more beas. Mc

something that pays victory waveless, on it."Without witten windence the Environmanus Consor Bosaut, which adjudicates these cases, world press charges. They get usely again with themsesticad.

beloo codes, wor'd great change, so allow the control of the control of the code of the co

Officials from Victory Memories and MYU, Moducal Centra are summarized to the Southwest incurrence to see the evidence Anni Youd NYU debector of enveropmental strictors inappets Methalharis find the power finestiff for excels fallott bags, not or that no papers with the NYU, interhead were found insent from NYU destinated the needles could have come from another frozonts.

New York has bestied the moral booking goldans. You'll make as the signifile laston withink of his Sughance I most against laws, in Improve the new versions in Superior to Superior the serversion in Superior to Superior the serversion in Superior to Superior the servers in version in Superior to Superior to Superior to Superior to Policia for an exercise in Superior thesis as good Covernment personal making with seal to Sub-Ind the Sup Operior thesis as good Covernment personal making with a sealor sourceasted and one remaining lardiff and Endow Covernment and lardiff and Endow Covernment and lardiff and Endow Covernment and superior to Superior to lardiff and Endow Covernment and Superior to Superior to largiff and Endow Covernment and Superior to Superior to largiff and Endow Covernment and Superior to Su

Or by a modelens—the private insplice—the real hardward in higher—than the fractional of contents was the commercial increases of the state or most few that fractional area carriedly faced to the The president for burning the infection and that the properties of the commercial contents of the commercial increases of the commercial contents of the commercial increases of the commercial increa

increase the ordering otherina exposure to hospital walk?
• Two years ago, in a New York subruth is seen 100 legs from the docusting of a citylichers dance shado an abandoned warehouse was found pooked with the toma of the product of the product

house was found packed with five lons of medical tresh including amputated, limbs and hypodermic needles • In 1996 g carter draw truckloads of in-



AT JACK DANIEL'S DISTILLERY it never snows too much. But when it does, it really does.

One of our rickers (it's Lawrence Burns) is surveying the situation. You see, it's his job to gather these hard maple logs, stack them in ricks; and burn them to the charcoal we use to mellow our whiskey. "Charcoal mellowing" (as this process is called)

mellowing 'as this process is called) is more important than anything to the taste of Jack Daniels. So, we assure you, Mr. Burns won't let a little snow get in the way of his work.

SMOOTH SIPPIN'

Surrous: Wholey-00'50 Presi-Dealths and Eatlied Its last Decel Datility

· Late that same year a Brooklyn warebags containing blood-sogked gauze pads happrisonic needles and samples. containers marked iscustion waste and documents with hospitals' and patients names on them. The bags clumped there in 1982, had been rummaged through and skept on by vegrants, says Nancy Young, a spokesperson for the Brookive detect at-

. The Fifti is currently investigating a New

into rincount-looking black bags, and then carring them off to lancibils in New York Tracking laws in most states are weak. No "cradle to grave mantest is needed its total destruction in fact housers aren't easy for haulers to dump the weeks. New will and when tohier rules for haulans and hospitals take effect in April Once a year.

hauters will be required to show cradie-toserved, how much garcege they carted. which incinerators were used. "Until now

dumped them on a pig term in Bucks says Gordon Boyd, evenuave director of The Legislative Commission on Solid Wayde watern haviers and hospitals will be fired between \$1,000 and \$2,500. out of business by national solid-waste management companies. This immorant

crowth industry is benking on ADS. As toer of the disease spreads, even though the fear is unfounded states will force heigh-

most firm. One such company is Browning-Ferns Industries (BFI) Based in waste increasions servicing 22 abstes and

space, and veternamens. Source says. The company provides cradio-to-grave bostows. We give them the bags and containers to separate the weste into the says. Then we sack if up and haulid to one of our nonaniban sites.

Spirgn won't say how much the company charges its cherts. The cost depends on how far the health-care tacking is from the nearest REL recognitive Servetmen the

live hundred miles away "admits Source Perhaps the most dangerous and overbolied aspect of the whole infectious waste. diemma is the invisible one. On-site has oits' incinerators may be spewing a stag air A study conducted in 1986 by the EPA large manopal incinerators have ireadequate pollution controls, emitting some of dioxins turans, hydrochlonic acid, and other acid gases and heavy metals such

tors have even fewer policion controls than municipal increasion. Neither hospital nor

mandated by the government for hezproour-waste inonerators. Many of these ots sand or more times as many possons into the err as hexardous-waste facebox do: New York Department of Environmental Conservation Hospital incinerators he The tragest problem is the chlonnoted venous luturg syringes. If not completely conflueled he says, "these can release Ordinary household waste contains

twoon 20 and 30 percent pleater. "Most Lauber. They control only the arrount of For instance in New York City alone 24 graters to burn they intectious parbage.

agency in California show that in acidition to emitting thourse and acid grases, many burned. Some of these drugs are so tono that they re-classified by the Nuclear Reg. Atten Engineering concludes that chemotherapy wastes not burned at high enough

tors reside that these drugs are regulated drugs might pause a problem

When comprised with other substances. however they form dangerous costs pounds According to Lauber hydrochlo-



ples—to form a very potent human carcinopen called BCWE /bidtipsomethylerhein "I think if could happen in these old wiethpart nonerators "says Lauber "And we makes. These arequiated incinerators burn

charrioer, ensuring better incineration and

which keeps combustion efficiency high plans to study the pollution threat from

prevised principated. Langilla won't be in

waste recycling a not a vable option. I'm infavor of recycling," says Lauber, "We just + Two to solve a september directors—one that 90 CMNI

lowed in landlifs in many states, but the

in the range of 2000°F automatic shut-

is being erected at a hospital in Alberty.

standards. The best solution for any rifec-

laws' saws Sales I we can't large the states. caffers agrees. We don't need Indeed

to BACT specificanons, would out ungon-

year 2000 and beyond DO

BOOY

which prior pioteins were purfied and

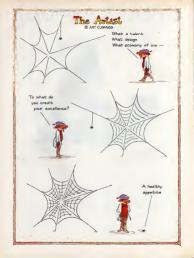
Meanwhile researchers as tar-fund as catalogued to date are the wearts-minute

chinery to operate they enslow but see

mystery says Jacobus Kaper of the US Apparently says Kaper a year with a

Morobiologists know that satches in mans as still unclear For instance, baken

nessed could be put to work to tormulate movel medicines for the tuture. Satellites, Because of the he says satelities may one peutic dose of satelite-virus tonic DO



# GULF

Asharban pal is mad Demons of hate cossess ham! He trathes in blood?" Your blood, the Baru pointed out. Horsh smoled tenor Their ranks strend rest-

maming, repend For a moment the enemy power warthe Assyrians as they milled in growing fury.

shouled over the audden din of blood thereby years and abasic beating. "Back to I will go," the Bary bellowed calmly other of Shushmak oty of Elam, and it fell." your cowerd king has falor?" Fromped yells secreted struck with requestion. "At this de-

already within this leather begit. The Benu pulled a drawning bug from within his robo gaspect allowing Bal-Hasht. "He's got our

from where they had crouched in fading

spaced he robe. The Basy feeded and spected upward. The Elamites fell back.

"Ladders forward" he shoulded

cuckly drapping fem to safety. They left

well At the last moment alread what of him. They stared up, openmouthed-into the

the Person Gulf Below the rarest related

bottom a crusted layer of black started Four meters away, Technicain Ali

cropped head "Years" across the mirefield his plastic Khomore

dust-called bit of periods alsbedget "Pe-"Huh!" All said. "You have all the luck

uthred soil "Look! Here's one for me He ambbed for a They struggled briefly, and sat up flowning "fourier got yours! I

Reports shousped with bad grace "W with the thursty. Look of this " he sould Look, she has no well or closk-you can

- acts of sabolage and

Radio Blohded<sup>11</sup> Behevior said. "You All looked sheepish "They'm surresing Redio Tetron lodley You can hardly hoor

"For shame," Baheshi said without much the transan camp. The two man got to there loss and headed back to base their belies. rumbling for lunch. An American made down into a six trench. They look this places in line beside a half buried galley

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# Canon (((PR

area, 4s tin roof heaped with sandbass They stuffled forward picking up bet-Mustard gas "the scanad man sad with

a shy stree. The dust is bad when you pea gruel noe and flatbread. They clam-

stone it was a little broszier there, and it style igard camo pulled up in a Toyota pedup. A multipennied enteroralt gun fraci cheery crystan chrome yellow The

headquarters. Commandeered school

a bificerso mass of smoke from distant children in the buses as they began a vigther comes against the libertation strug-

taled "We've done it before haven't we'?" A) shapped unessely 1 guess so We

searching through relies for a possessional Not our own boys

the Nest of Spes. God purished them their

peried to us." Behestit decided slowly in

Dust few. Where did these parts come better have it's worse

Behest's gazed around. Sure seems famour though Same wir arrywity have been a benner by may With a rigor

We were Muskins. Behest's ported out of the Revolution. We don't clance or play music. And we stone loose women

sturged "What do we do for the your We Behasht workled his brow Well there's mass struggle railes. And Greet Soton and the Masest athesis

you Well. I custon I could printe tapes of pop music. Al least a black marketer has

topasters cracking into life. In the name of Alleh the Meanly the Companyone by state. Sciders of the Interno Revolu-

gle. The visce went on and on words. Air shuddeend at the power of the Word A multith from the capital, he said his shoulders slumping. He listened briefly A sudden Both of desperation. We'll hide

our source Wall to good others. Used we're either dead or far away from here "Good day" said All begittening 1 has

To the north heavy a Yerry opened upwith distant monotonous thuds. The down into the sticking darkness of the

bunker DO

SPACE

to drain off the water and sourt in the rust

The thousands of switches-each one

gress Special brush attachmenta wore Any will be to replace the missing control call to the real thing. Dials and gauges will

While DO7 was a real challenge, the most different work. Any save in in restoring spacefully, as some are more than 20 years old

What cannot be explaced on a stat can has also learned to remels from scootch tesace mate. The center owns the mosts new helmer from scratch, even to outside

Within rime years the cerner has been

to make sure that years from now we will have a record of our apera age DO



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#### INTERVIEW

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considing effect. Other manufacture did be sociation effect about personal control of the Cross After orinophalin many more maked. Draw After orinophalin many more maked after a feet and after a feet or a feet after a feet after a feet and a feet and a feet after the life 1979 at least ten maked opside had been found in their acres great Assemtation found in the acres of the accuser it is a feet after the control discussion in a feet after a feet and a feet a feet and a feet a feet after a feet and a feet a feet

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dynorphinto-be-so-pow head it into the ispinal or my kindly sent me hao

cal vito the spinal cond one leven to ten days for eurgica then I clid firs. I got no spino effect from the dynorphin is focused demonstrate country.

hmwidtentwenty four hours after a the effect was overwhelming. Go wood me to this tab in 1982 to sho will all this. At a conference in e attended together. Goldedon got moustoon! "Surroune Dr. Min. III.

algosically in the spine inci in the in-Deant Why did you swisch from to icapuncture to electroacapuncture shart. Whom once income a meetic in inpublies it, the potent gets a very consisten. The dischi is it is called

scheduler The doch as its called a not hell por but an unglessarines combried with a tenie of histories so more brief with a tenie of histories it may be ness and swelling. Procure injected just below the skin laik to abolish this needing sensition, and acoparchise all works this when procure was rejected deep into the muscle light both the needing sensition.

> the key point must be in the shu of deep in the muscles and te the acquirithment the work in key of resching the decks in or and in the procedure. I thought other is stimulation with the new the risks of the shunders in the second the shunders and the second the shunders are the second the shunders and the shunders are the second the second

reach the deep structures. The way I can obange the parameters of the electrical atimutation to produce the most satefac tory deals. In fact, in 1966 I step used a went above and another part beneath the acopent, and i clamped them logether with a segment of a clock spring it worked woll That was the first model of ecopanically without needed or intersoutaneous electric nerve stimulation (TENS)

Increase simulation (TENS)

Owel Do you change the frequency of the election stimulation?

Harr Trieditornal accupanciums is elways steas that different ways of tweining produce different herpoolic effects. The most popular example in that we must charter and complication with the identifical parts and complication with the identifical parts.

point—the Zusen's a tempos point locate just below the kindo—but use different me impulations. When you said them how the do it. They describe it as hat or warm codilor colid—each a different manipulation. And each famous acupandurant to has own style of sersing. Described the little fire used to produce the little for the used to produce the service of sersing.

was soo subjective? You couldn't affect numbers to its offacts? Hear Yeah thalls why we fined electroacupunctions, and also so duplocate the tech-

requires of the classic accipantums. By waying the brequency and amplified and psectrodimisation illusion Power Pomerare at the drawning of Tolorito made an intercent looking with electroscopischure in 1809 looking with electroscopischure in 1809 looking with southeast personal company and the properties of the psectroscopischure in 1809 looking and profit looking personal psectroscopischure.

Inginization with the blocked by a mind does of histories of the conclusion that the high frequency electroscopy make that the high frequency electroscopy make that the high frequency electroscopy make the conclusion of the mind of the conclusion of the conclusion of the high and low frequency electroscopy electroscopy make the occupanciate effects. A small does not electrosic statistication whereas high-lied electroscopy electroscopy that the property of the conclusion of the conclusion of the pile. Listing all the conclusion of the pile.

I saw that are could block the high-life quercy effect by blocking dynorphin. He cently we used radiomininosisty to do amine that the frequency acquirecture does produce lots of enkephalm but not dynosphin. High inspectory is the oppoable—based dynosphin but no enkephalin. Owes Did you by switching the frequency.

back and forth?

Han The haddensi acupunctured livris at many different speeds. If its above he may livel the needle back and forth or go up

all to the control nervous system is the human hand as never eas outdoever say. "Oh I'm now with lates or test hearty per second." ope a linguancy pations of two a thests, shifting automatically to both sides and naped terring were so furly bocours switch were to flustry bocours switch.

> ina aynospriin. All this of cour nly to animals that respond in For the nonresponder the

doing something completely different in 1978, during the spring testwel that prieng with my colleague Ming Feng in my lab dong throp without disputance from measured the effect. Then half an hour lates I nave them a second acupuncture seesion. At lest I thought it was not random each time With acupuncture lolerance about a day to recover from six sessions. because I always got the same time partern. I wondered if there must be some

while others don't? The obvious explana tion is that the norresponders don't re-

long study with seven hundred sats. The and May, when representers improved prespiated I first the switch is due to tabolesm meking and masselon.

little or no release of enkephalm or dynor-

high- or low-frequency stimulation Owny. What make pause an animal or per-

back to the brain which brands it so pain called the melbran Combrosperal fued then bethes and cushions the entire brain flows call the area surrounding his channel the normal and tolerant rais and invected the extracts into brains of make rate. When the can Emitteen anapalet With the

effective to the same degree, and both work samilarly Tricyclic drugs have many unpleasant side offects Acurumenture has none ?

For degression.

feel and how much it bothers us. We now

puncture biserance is indeed caused by CCK Injecting CCK blocker into the tolar Hart Parr-control networks within the brain

Owner You therice a COX? Han We purfied the extract and found the

Greek Given the abiley to modify neuromark accountlise be used in place of Man It has proved very useful in treation

may explain why is some patients and modulatory system. It is essentially a is include let. this pain-modulating system raphe nucles are devoted almost entirely to works to block the construence perception primitive retieses. They turicism such to down When pain impulses move pest thin turn suppresses pain perception of the two the record-the relet Acupuncture

seventy respect You'rd respect the effect to be recluded by only a thed or a lourthanalgeous The mesolimbic-loop idea sug-

Ome: So yours saying that the upper brain eticulisms are especially important in me-

brain-nether the peebral cortex, where memory is initially stored. By mapping the drugs are effective to the same degree. But heyeless have fearly unpleasant add officess Augustuther has none Bothsoet recets seem to work similarly—by managang sensions within the limbs system. Owny is electrocorpuncture for humans a lend of line-samed various of stadebrail shock therapy.

Floor heapy?

Hen Mary Arcia of electrofrensy definitive stocks for pain modulinary per whole stocks for pain modulinary per who the service stock for pain modulinary the stock for people A Franch form of other stocks for people A Franch form of other people of the stock for people and stock for people and stock for people of the stock for people of the stock for people of the stock for the st

say decreased. Les batriosis, it is maly we who will be a serior and frequency between the many serior and serior and frequency between the serior and serior and

green and dynothes.

One Whell about despire claim executive is underly with a common despire of an angel with the second of the control of t

twe Chinese people are a bit too polite.

# AN HERETICAL COSMOLOGY

#### A RETURN TO DESCARTES AND LOGIC IN SCIENCE

A N HERETICAL COSSIOLOGY by Louis Jacot invites the reader to reconsider Descartes' vortex theory of the universe equipped with commence for the property of the control of

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modern theory.

Bosed on three intuitively derived principles
traceable to the ancients
— continuity, dynamism

— continuity, dynamism and evolvement of and in all things — Jacot mointains that the universe is an hierarchy of expanding vortices. Midway in this hierarchy we find our galaxy, solar system, san, planets, atoms and interplanetary space.

The translation, rotation and evolution of galaxies, stars, planets and satellites is not due to mutual attraction as postulated by Newton, or distortions in geometry of space as posturather by the dynamical pressure of the all-pervading medium — the other.

By appealing to qualitative properties of vortices witnessed throughout the sensible world, Jaoct explains that the planets in our solar system were excused as an and that the evolution and dynamics of the planets — their revolution on the celipist, their distribution according to the desirabilities are the planets — their planets — their point of the distribution according to the distribution according to the distribution according to

common sense.
AN HERETICAL,
COSMOLOGY extends the
vortex theory to the in-

finitely lange and infinitely small; to the history of our universe and to its future; to the empirical results of modern science and their reconciliation with compitales a bold synthesis of ancient ideas with modern results that on the one hand admits the dramatic successes of current theories, and on the other hand points the way to a deeper and richer

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# STARTECH

# ACCESSING THE FUTURE

#### CALMING CRYBABIES

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# ROBOT HOUSING

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#### CASHLESS ONE-ARMED

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very well be computenzed cardinos wagening.
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emant After placing the co in a sick the behalt risks the one-armed bands for a specific wager level and the pulsiting arm to play. A while credited to the player's account and deplayed on the masterie Otherwise the amount is

deplayed on the mealthin Otherwise the amount is deducted. And the tracked sound of come tripling down a simulation by a digitated recording. Jeffiny Lindo executive woo president of Koneworth

altity Lindo executive vice pesident of Romeord belevier his company's system will increase the lot of casing gambling. And the data these computance systems can provide or motorical gramaters and groups will so casino chan their inducements to the bigger bidless.

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#### STARTECH

#### TEFLON FLOPPIES

Verbaam a Koclak school ary that is the world's largest producer of diskettes for personal computers. Insis begun menufacturing a Terfan-control floopy dek (below) that can put up with the sorts of accodents that we this begin of consortium.

the sorts of accordants that are the bane of personal computer users everywhe Called bataline Plus. 4 can withstand white out collee spills, Ingerprits of the disk surface, kelchap consentie seeh and with obs or cleanoum. By compared according to Vertablim competitions delse will rail textween 70 and 90 percent of the time when massed by a linger prim and they cannot be would clean. For added insurance the people ourses in a polarier land sissey which proveds safety leaf-trail of textures in a polarier land.

pedual comes in a polariti inad sissive which provents state electrical discharge when the disc is taken out to use or replaced for storage—Neter Editin Access DetaUre Plus

Access DataLife Plus diskeltos are avalable at computer supply stores at a suggested price of \$23.80 per lan pack



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rows a new notice system may finally bring income breater sound to TV vinester file the New York of the New Yo



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#### A dozen anges in this issue

pave the way to a constellation of prizes. On your mark, get ready, begin

sioning the completed work, a paintar begins the cre we process with a simple brushstroke. The cossul ob-over, however, finds it difficult to perceive the overbust

s, we present the third annual Great Orny Treasure Hunt of the 12 picture disks displayed below it a portion of a hoto in an advertisement or part of an alicitration accompa an article or short story appearing on one

e, is to hunt for the pictures the segments come from and to note the page number for each if there is no number indicated the page, check adjacent pages and distarmine what the miter should be. When you have found all 12, add the page. numbers to armite at a grand total. Submit that actuation to the













1968 Great Oneri Treasure Hunt, and you could drive away in a 1968 Joop Whangler, and into the Cantibean susset, cruise down

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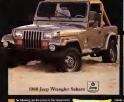
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Find the clues buried in this issue, and one of these tressures—from a jet ski to a glass bottom bost—could be yours

# THE OMNI GALAXY OF GIFTS











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# LAST WORL

By Fred D. Baldwin

I have uncovered conclusive evidence that federal agencies are already using extraterrestrial.

federal agencies are aiready using extrateriestrial illegasts to perform key lumotions, like padding the Pentagon budget and setting the prime rats. §

It's an all too-familiar story. Some gay in Waynering crusing along in this postuptices, puts over to check out in singlet light it provises to be a UFO crawfing with claims. They whose in min ITO or Architecture for tools and return him a few weeks laber without staffing from the requires. He're all statem up, betrely found enough to citiz a claim of the staffing with the staffing.

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e Persoylishe, whose mehaneing housegoed. Exceptor holps save evig bills by Resping the Americal

# TO SOME PEOPLE ART IS THE SCIENCE OF WONDER...



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