

### VOL 14 NO 9 JUNE 1992

EDITOR IN CHIEF & DESIGN DIRECTOR: BOR DUCCIONE PRESIDENT & C.O.D. KATHY KEETON GRAPHICS DEPOTOR FRANK DEVINO MANAGING EDITOR CAROLINE DARK ART DEPOTOR DISSING IS NOT A RE-

#### DEPARTMENTS

Communications

Forum

Relitical Science Earth

Whoels By Jeffrey Zygmont

By Robert K. J. Killberter Gemes By Sout Morro

Beautem Mourning Isaac Asimov

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#### FIRST WORD

BACK TO THE BAT CAVE

An Innervous spare to lure our kids into science By Fred Channell

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## **ONNI** COMMUNICATIONS

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I found First Word by Carol Bly (March

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#### FORUM

SOME DIRECTION FOR OUR SCHOOLS.

Our politicians' educational priorities are out of touch with students' needs By Keith Ferrell

erflage no orises most directly diffects the direccestly the first many of our so castly then the crises in public and ucotion. Our schools are closesrating, good teachers are about downly the post-asses in it learning numbers, students personal life to wake in the subjects. Playing taught! officials of other nation

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Naturally adjunctive to this approach was the ability to fill out forms, read applications

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### POLITICAL SCIENCE

PROMISES PROMISES: What did Bush say? What did he do? By Tom Dworetzky

dent has hed four years orreses. So lut's salk the ques-CULTURAL WARRANCE Her sourt Those who think we're poweriess to do eaching about the orner-The Whole House effect. As president. I mend to do something

He did For the last three years, the Bushman balked at est D-7 summit, the United pears who wanted sincler stan-Mir present copps shorts Marcha Nero was really fidding with a sproadsheet while Rome burried

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argy budget contained only 4 percont for research on renewables PESTICIDES AND FOOD SAIT. TY in Detabler 1989, he called for

found and fath formal of the contract would force some states to weekholes allowing U.S. chemical firms then used on food shoped back to the United States In 1990, U.S. relies points of barned pealodes during a three-month penext. Bush conveyed languages to OCEANS He said: "I am on who is prime to class up that He did In August 1991, the dredge disposal 17 miles east of the Chesapeako Bay to 1989 Win must apped up the clearup He did: Of 1.075 superfund name Collegesty, by unbythby continues. dump problem), the number

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#### EARTH

CULTURE SCULPTURE
Preserving images of threatened Amazonian tribes
By Linda Maria

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Significantly, 22 of Lettersterin through the centerphene of the through the centerphene of the American Pavillon at Expo 92 in Swife, Spain Columbus debenkation point to the New World. This for five hundred years garde, we've billed seventy million Indients and made hand the pocental.

people on the constant " says Lettersten, gesturing with strong westment hersts "Counttous is dead—In doson't need a monument But the Indians deserve one." He concern for the paget of

His concorn for the plight of partitive peoples borders on posision. "The desconders of the Spanish anders were supplied to describe the Inderes," says the orilist himself the lab of Seadain -incubstructure who emigrated to Pinru. "But my larnly admired them." I graw up abouted them and learned to love them." Latteriore savents driven to

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#### WHEELS

Better blues mellow noise EZ-funk alternative mok By Jeffrey Zyamont



7 \*ports car arrival

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music as strongs of computer do tal Deceptering the agriel much coded music, digital car radios of foliow passengers Meanwhile. CD country Stabre to de de chratal compact operations trape avatern that records in choice more Next comes the destal second processor (DSPI system, desconed or DSP tota becames region are net begans to village less broadcasts with specious echavailable mostly on higher-

is the loudspeaker because that's what reproduces the non-most - Mildhoom down on Traditionally the best speaker

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reh-eourging Bose system Wolfe. otal awailabre for about \$2,000, is cause accordingly quelorized deform and intensive For the Mercedes-Benz S-series cars, Bose

Noting that 'good music cost of acoustically customized music systems. 'We hope to got car buyers as we can ' be sows petition. Name a leaf for custommost catical element in a system. ing " says Rosen DO

#### SPACE

Will the budget axe drop on our invaluable planetary exploration program?

By Brenda Forman

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And yet is such a bargant in the past are years, our please in the past are please in the past are years, our please in the past are years, our please in the past are years of the test of the past are pennise per world for each American The annual budget for pleasetary exploration runs only about \$400 million—less than 5 annual test from the past of most hedden to budge else yet of most plantatery of transis, plantatery of transis, plantatery

And introly of romas, planetary exploration has no hoursy-veright chargeon to Congress because it is so chasp! Sciar-vystem probes don't give nee to multibilion dolter correstor—ou insteady gass to ball for them all budget time. Meanwhile, other countries had solar-system exploration seneusly as the magnificont undermously as the magnificont under-

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new races the obtrobbing possibity of stagnation stock, or ovenslow death. The laws version of the obm. The designate intended the CRMF (Comer Rencharcous Autocid Figty) spacecraft to fly with a correct for two or three years to observe how the correct changes as if annivaries the sun. Maan.

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send up any others for at least a cur frumpre as they also decade because we simply don't carry them forward into have any others if missions like worthy of their past DO

#### B00K5

A MARTIAN ODYSSEY:

An all-expense-paid trip to the Red Planet with Ben Bova By Bohart K. J. Kilheffer

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to examine his daunting solition. His characters are likelible and will delean from Jame Websteman, the his his way to protego not and James Hoster and James daught out the his his best part of the protego and the solid harmonic master fellows the solid harmonic master fellows the solid harmonic master fellows the solid harmonic proportions of the solid harmonic books. But so in Michaere's books were fine fined.

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will go to Mars, says Bove, speakng through James Weterner, "Necause we have to. The human race has to. Wo're deplorers it's what makes us human." The cycletion Bove to his readers is not it, but when He

serve as a railying one spuring us all to pool our resources and get back into space. "Mars waits for us," says Bove Let's go DO

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### GANNES

Exercise your brain with our guiz on sports regulations By Soot Morns

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### REQUIEM

ISAAC ASIMOV 1020-1002

LSAAC ASIMOV LOVED CLARITY ABOVE ALL ELSE, SAVE HIS WIFE AND FAM-ILY, HE SHARED THIS LOVE OF CLEAR THINKING AND CLEAR WRITING WITH HIS READERS AND AUDIENCES FOR MORE THAN HALF A CENTURY.

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#### STYLE

#### NATI BALL COLLECTION:

Thanks to the equiture movement, the human race may not go gut of fashion By Michelle Keerns



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Mother Neturn has also come in with her cash order articles. Endto elbert in sworp test col berson and preen. Developed by Selly Day who date her worse on into unions stopped T-starts marks by Fannt and in Institution Levi Straum A Co . collect Natufacin over time like most mens

As moun festure carefrénce

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ence neets in urphached up dyed linen. "It's the beginning of a groundswell, confirms John department at New York's Firshion Institute of Technology hues, lebec with rubs, and acti-

But eco-style alno applies to fash will agort gerthform, and even elec-

the developer of Ecclection, Espoils new environmental line, disals. To prevers credation, they re-Litro process. Espoi a rejution teding festion agustions in the sat-

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supposets. Tread marks can be previate, bo



THE BOAD TO BIO

Foreign a new environmentally conscious world order Plus, the bait catfish can't resist, and global warming brings stormy weather

Lester R Brown, prosident take with Steve Lerner about the impact of the apment (UNCED) that the ornopal message or separate the titure helpweelft Brown There has



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that will lead to population statistization, which in turn will topether to ensure the future hybridelity of the planet. Lemer What will distinguish the Rio conference from ence as the event that will officially mark the barretton networky the need for ecological sustainablifty. The need This offert powitably brings together the two creat issues. brought bogether before except in a conceptual person Has conference. I between will understoo the outent to that we may beye talked about from time to fine in the

Expernt from Revgod the Earth Sussess: Conversations



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evie ar bags. merry new new But tree

is called a surreconductive developed by engineers at Bandio National Laboratories in Alburgamouri, New Merco. Currently, a hot/were sys-

purrent troppers & driver'sside set beg to inflace it sets. THE WATER-LIVING

PLANKTON COCCOUTH OPHORDAF IS SO ON THE LEAD OF A SEL

enters the air bag and igners. colorance a burst of reference to inflate the bag. This propess draws a substantial hottony and addrennel air Increas pulsation systems. But of the energy of a hot-ways medem and a one-handsorth its size, says Robert W

Bolos Jr. a obsescol

chemist at Bandia Moreover. necest of the militarconds a vehicles that now have only dichara-arte or hans ancording to Bickey "It gan itentily be used anywhere a hot wire is used " he says -- George Noths

WRITING LETTERS In 1991 Congressional

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THE LITTLE MISSILE mesoin without a workead?

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STORM WARNING The global-warring pheup with one surprise after another Researchers have probably create higher tides. finding coastal areas Now dist that warraw none

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- Mark Prachett



Global warning married many engage and engag violated -sports



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us '-Bri Lawren

#### Do you call like a bard a

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Seepealing is an unus but for from-rare phenominon, according to Neil Kadractor of the Sleep.
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York's Columbia Prestrytenan Medical Conten Ravey need to three people shought to be sleepesters in a sometic steepel to show that they would by its eat in than sleep lare enough they did. Keeply has worked with

stour 15 disepeaters, who, he toys, have 'a stong precocupation with food during the day' "speatly dering they can control themselves while any stong that compations to all sites over while they step Common

BY 1995, 61.4 MELION WOMEN WILL BE IN THE WORK FORCE,

CENT OF ITS STRENGTH

Then a psychological need to provide the strength of the country large. Supposes set a lot during their devouring busine communities of bods and even new frends. "Shell those seed frends." The strength of the country of the

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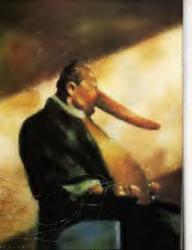
ional therapies such as looking the kitchen or

reinginstar
According to Karoy this is the fest study to show that suspected steepeakers are indicad walking and cetting in their steep. "Whether it's a separate synctrims or part of

1988 authicipanie: Trinori students auferted havos ao meny rightmene on inceage, ao flasc officered have ses in Tubbon Horewey. Wood saye, 'see atil don't know whather people exposed to treamsto street are more sawaspitala to nightmans in the long nut. Indeed, meny quastione siskui nightmans here we present nightmans.

classical slospwalking we just confliction "

"A dector can hury his metakas, but an architect can only advise his client to about wrise."



scientists burished over a small dask in a hotel of Gollo one of the counts of spance and the room in Frankfurt. Dermany--- the pair pressured only accepted ever to win two Albert Lasker years of bitter battles over who first isolated the biomedical honor. The battle for scientific suprem-AIDS year. Robert Callo, one of the National Instrument however, destroyed more than soos. While

perstars, and Luc Montagner, a virologist with "time taking potentials at each other across the Paris: Plastaur Institute, harrowind out a "defre- Affentio- inclosed of using their considerable tai-

are hardly gains. In

ther backto

ottolais in France

claiming thousands

shattered reputation.

their governments would jointly patent the troversy that erupted in 1966 when evidence sur-1963 by Montagreer The motter respect however until 1989 when the Chicago Troune published neity prodded federal investigators to probe more deeply into the eyents in his lab in 1962. Now one of the more ignominious ghapters in the arrests of accorde appears to be princing to up to montor an internal NH mestigation of the offer, accused Gallo of "intellectual recidenceson of a bob decrea? The panel marrhers comon notice and student as APTS you a sent to him.

al industy gwestmetric oberoos of occury and As Cleary worst to proces, the NIH was recomwith reach to clear Gallo of changes of misconduct. The unpublished report addresses—and uffirmately rejects-most of the charges accords

As mounting scandals shake the public trust, researchers struggle to reconstruct science's

the AIDS virus to nive French acceptants a chance to device their own in the intervening five months, virtually half the hemophiliags in France became infected

gie is suit the latest in a resh of repent econdate rigulation or faking of data, and outright orimnal behaver have made from been news with elerming requirity. Even Nobel Laureste David Baltimore's career suffered when he stubbornly refused to admit the possibility that a colleague committed traud in a scientitic paper ne co-sufferent But the Callo affair unvisionnesso, parhars more than others, that when scientists no nation of represents no more impacts of moto-

coi People's Ives are put at stake Indeed, these disturting revolutions of wrong change by samulable samearching boun accided by the to combange, promoted Congressional oversucht committees to launch costly investigations. fush out the charletons. Some worry about the Goldo. The negotiation browner is tripfed by falls of the next negotiate and refer to

ILLUSTRATION BY RRAD HOLLAND

tale of the next generation of scientists. enterorise that must be conducted in an integral to the scientific method " www of lands are of bloods. "Approved a pro-Whatee mescacket is more nown.

The apacities that disperse many of the hudget of 58 billion and supports about 100,000 supervists, and the Nowhich sure on \$2.6 billion a year-do Mocut 18 000 grants the NSF made in 1991 only 52 cases of mapponduct ing to Donald Buzzelli, a staff associ-

Inspector General But scientists themselves recent the actual incidence of misopyrichiot is much bodyar to a himsenther 1991 watway of 1,600 scientists conducted by

Que teeling is the problem has gotten lapse of the professional consumus coso the high-ut debonaty is non

diseases and infects the whole process. Of course of themse of chargest con-Merry creat scientists—Gattlen, Myndell Naseon and Delter among fromcalled to the projection which opens-The whole country quartiens of Inch. searching after the grad of knowledge."

to patch any miscreents. Plear randow consols any time reads. For residence GRAND ILLUSIONS

OR SUSPECTED SCIENCE FRALIDS

1. Gableo Gal-bar? Gulleo Gulleo 7. Sladidumery. The Pitchen Man

(1364-1642) is considered the foundet of the modern scientific method

2. Stancrossed Science Compelling

4 Darl Charmony, John Doton, the

perments conducted in 1804-1806 F. Manufatan Manuschert, Althor Circ.

searchers were convinced he tale 6 Fishy Physics, Robert A. McChart won the Nobel prove in 1963 for meas-

according to accord all time. In 1908, a part of a secul based as proof of the Support to the 1050s browners on searchers using modern clisting tech-

A. Sounous Superports for Cyti-But, a recogning Brosh countrie word 10.40m word 10.60 to black up but tween heredity and intelligence. He

9. Of Micro and Mandage, Wilham T.

hun for naveral salake hancenes 10 Houstbookley John Darson II

to 1050s foldback data that formed rubbretone on heart disease. The on authorist his napers and never scientific journals send articles submeted for publication to "referees," other refearce and validity of the findings. nearthers alternot to replicate the re-In isolated instances, such as the still appears to work. In March of 1989, source of the curis energy and had proheavy water. Excited chemists and physrosis formed teams to confirm these as-

and no everlence of fireign and conducted the Litch experiment was flowed claim they genunely believed it. Thereton they were pully of alcopy scharce. not fraud "sayo Robert Park a profesand of physics of the University of Mary band and dispeter of the Westington DC, office of the American Physical Society. But the objet courses separations tableton with their banch moresy.

mate, though, researchers rarely repeat each other's work. "Nobody gets fundthe self-cleansing apparatus it once wes," may when Hallum director of the Flowed or even flograntly spunous gotence has alpped through these suppos-Deception, by its nature, must be clardesine. So the job of keeping science by from welcoming or suppositing whitethe blowers, some research institutions.

resting serious doubts as to whether so-'This is all about money,' argues Debut Dal on appropriate professor of Science (John Wiley), a troublingand automatania comparted-exten tors, the smerce community has often have a vested interest in not find.

Increased researchers present When

set up investigatory panels, which are

alwest inevitably kangaroo courts that cover up abuses

Indeed, spence is hig business, and two decades cost planty. The electron the past decade as standard laborato Sophisticated imaging devices, like PET I afternoon on the Patronne's various as many as 60 people-graduate stu cleate posiciordoral follows techniques and upper researchers—sminnle for or require hundreds of thousands of dol-

sources are dwindling. Nobel laureate physical Leon Laderman, the former

> 49annon must notice thelf. The future of research to intimately linked with the

senousness to which we address the innue

of scientific conduct.

purpleted of the AAAS coveringed a rehandlers for anacolder consequely of frame trans there ababbite Sometimes they provide has displated. Small secondar that hadden. They set to sewrithe managers withith doors, while they underland ratory appropriate bidestrated with money

tron to make a key discovery. And prog-

number of papers a scientist has pubgame of acquiring a long list of publicalcos is a celatively new development decades ago, the outrent problems note William Broad and Nicholas Wade in Betrayers of the Truth (Simon and Schuster) "In 1958 James Wat son '-who won the 1962 Nonel Provi 1951 - had on his parrich my the righteen negers . Today the bibliograntw of a candidate facing a settifal climb often lists lifty or even one hundred papers

ments don't lurn out the expected refresh approach-and pray they get the rists in a less favorable inthi-or to and chart. White "revel econolete are

and shuston's heart on they are when-

They're seen as spoilers who've upon: Like Robert Sprague, Just before Browning, while a psychologist at the heaven their heath arrests the wall

tice that neurolentine had an unfortunate auto affect. They commed to gause tardive dysknesia-involuntary muscle speems such as flancard arms, or wagging tangues conducted basened 1990 and 1993 inand that commerced stemplants, such as

with leaver adverse scale effects Colleagues presided his work, which helded shape public health policy. But Sprague feit there was someting fishly about Breunings was someting fishly about Breunings was sometime were general and the top person for master were just a first top person personer conventions. Printig over Breuning's data, Sprague restized that his freach had chessed. He was heartable—

and curringed. 
When point his detailed depends outinny three promities incidents of incidents of incidents of the NAME (perspace expension) in received with coson in fact, the NAME ordered the University of Philadaugh to convenie a pain et al. book who one of Soraquie's allegations. Brushing consequently contensived to flary maintain reports containto-flavor absences when the was contractiful as absences when the was con-

registres submitted when it was soon or before the soon of the sound o



## SILK FOR COCANE

Between the 800-kilometer-knop/Wesem Corollina and the Cantral Covillem angase of the South American Anche less the Nouse Welly perhaps one of the world is Jashost. The ool here is so onch. I can yield up to the crops a year. Between green mountains and organization benefits green in the control of the second of the control or the world and second or in the control of the control or the con-

grow the occal ear.
In the note, amelificant claims powers
in the note, amelificant focus and occal
year, the components travels the similar
defense who can start focus from a middefense who delivers the product to
proceeded to the American francis of
proceedings in the American francis
proceedings in the American

nec even a cocces in an assertior in a service in empowershed and far removed from commercia. They don't choose to grow coca. They have to in parts of the South American American have come to the production the in-loca Empire. "Its part of the outsire of our ancessors," says Cauca termer. Don't vider Navarea." The practice of

on impre- his part of the outside of our ancessors, laye Gauca farmer. Don Vidor Narwaiz. The practice of chaving was passed down from generation to generation." Like all peasants in the rogice, Narwaiz has a therit-grade education. But he is the leaster of Santa Cruz, a community of \$50 santae. os paraziona, 'ne aya,' 'We gree coor on rare plate from the year paragraph. Lot, crewing the sale one could be considered to the considered to considered to the considered to the considered to the considered to the considered to the considered to considered to the considered to cons

icense, construction work and domestic help created new forms of employment in those days of planty, terminate purchased nation than maked load. Champagne, cretered from Begotal was regularly shoped into booffen, however, were short-head first occur proper discount for the professional properties.

ket-leaving the Andean former more impovershed than he had no longer pays for the expense of eradicate the occa plant, sending the army one the valey to hurn fields and arrest and imprison the heads of families. Farmers had nevegetables; as well as the local cash crup, goliee. Whout occs, the populate introdu storage Some population anto left the region, migrating to flogoto so look for work (in Colombia move to the ones ) Other Cauca farmthe Colombian government of the community's souton of income. Torikes control the entry area. The ment trial for our farrifies was the pooa habit," says Narvoez, "Most of was on the wron of madness—there was crime, a brookdown of the eyetern and no one wanted to do any-



torn region, however, some of the legyes feed seleworms, which som coecon on the drug market for his lively.

Patricia Corway "Farmers earn when they produce 5000 a month while 5100 a month "The

nous "Instead. Do. and terroring furmers who ruse cocome." to 1991. Per Link

red Strates open Concern. Gesen Baset training and mittary percoasel. The 1992 hurious allocates. byrdries sérvice. Mosemannes reprondity endeen interfine-complete with one

more than a tellion dollars a year Ode for I de farmers son dates. mined to play a role in the drun on. mandan and familiar By cassing a alternatives in code exist and that the oil the crons we up grown. Naryway

tiker or elaborate tratalisticas like colfee does. The wonderful thinn it ness " Because the compensors on voor caps. They to not alread they sould have to have from the notice.

no may be about the most ecologcally openia, "tomal, runno nasy and clean," Conway says. Mulberry trees are so pround, they actually remulberry can't be chemically fed. In scance as a substitute crop. sik is We should see the farmers as ex-

twigs, or plastic disks-to make cocoons. cellent business pariners rather from our onomics, the way Washinclon portrays them. We should at and in Whetenoton methual the pennart and reliquia the idea of crowns ers to help fremselves are dis-

> of carliage Convey save : The ru ral spens of Clauda hours been deliber in October of 1990, four thousand e" on the Dun-American Minhesty to prosest the level of poverty and the lack of human services. When the an

my tenks rolled in, farmors fined ther own children across the nord says. "It was an amazing steterment Colombian government promised to provide a health care program (or

Wisconsin-born Corway has custor for two decades. She first warri to Colombia in 1962 and votuntoprod as a nurse and health-care or garcer in the Bocota stamp. Thereboard "house" The Bang had just

> conded continged to troppe. "It sook up six wanter to find the build her place " Dweld trade traupole Colombia, Correcty

Cataraillers use whatever is evallable—branches, ed Barriero o family in the twin communities of Sente Couz and Pen de gion. A piece of land with cook plants was for sale-\$100 "

point. Barrier and Corway decided to form a small account, develfind a crop-any grop basides opca....that stoudd mow in the volley It was Roooth entomologist Roohim In 1970 Colombian Coline Growery Ferferation becam to except ment with growing mulberry frees as a way to diversify and employ collee

farmers in the months when coffee is field. Silk for Life also had to gen-Plan, the Federation set up a proculture and worked with Coredia, a cross By 1987. the Coties Federafon had 124 hectares in silk produc-

Conway and a delegation of furmto Timbeo, the center of the Coffee eration officials refused to assist them, gateraibly because they were out of geographic range. But of ones country. They chose Nacfor silk usually taken excit worste." Convey save "Without assistance fune years. We experimented We taunte ourselves." Because of the lack of transportation. Bills for Life hought in multiarry sticks in bundles

rig sticks restead of rooted plants report 6 took 13 months to detablish Gruz and convert an adobe house nto a worm house. When the Muitransported them by seep to Sertia 1990 and sold to Doseda The srk-farming cultures of Axia

believe that the quality of sik is conrequires constant care and attention to feed on multionry leaves. After gorgyou for three weeks. The advances are and magically casts out the milecoon, the silveorm magazily transforme into a moth, which amornes. mates, laws eggs and dies. But puppe. They to then sold to Korean-

gened companies in Colombia Only 80 percent of cocoons showed in 1966, a Charlese George-

Flora Gomez that these coccoss can to seach each other how to de-

thread, must be removed in boring water and one sik "Booss and how es of beautiul hand-spun alk wors sell ask in the United States." Conway met Kerry Fyres, a professor-Technical College. The Hirrorg are a farming george who first from Liv-

communities is in Milwaukee, Evans Toring the City for Life Whileshop in Milwauree imports 150 pounds of scerves, piacemats, and handbags The Milesukee workshop sells its their own and other catalogs. "Our most has been to bein warner what

Dyans says 'In addition to the Hirtong other disadvantaged womers-come to the workshop and learn to weave. For these invermore than just a job. Weeving Andean yarn in Méwsukee connects who are trying to eradicate the cofeets the communities in Miles (one buspees westure. List year of creatsik mixed with Wisconen word in Cauca, 150 women are hand-spensoo And the Narvaez family-Don Vector and his sons—have taken week adversors to the store offerty to

Santa Cruz With technical seess. tence and capital from Dik for Life. selves into ASSCGA (Association of people in the region form grupps de plant or hervest one family farm be-





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most sturendous. most stupenaous, most terrific chess set exect

Ehhhh, "What's up Dout" first what! And the whole Looner Tunes!"

set ever. Buss Barray is King of the good new With Daffy Davis' drawn on an his Ossest Yourstie Son rules over she had more with Street Budd" as his Cover And Parky Pag," Tweety" and

Officially cuthonized by Warner Rena and created by The Presiden Many hoseboard "That's all Polka!"

MINOR MINORWE YOSEMITE SAM'S

RONGUES - THE PART OF THE PART ME MESTMESS

APT NO ....

Bring all those loyable Looney Tunes" movie stars right into your home!



# THE CHOST MOLECULES

A SAY MARROW THIS

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ARTICLE BY BILL LAWREN

A French immunologist says he has unveiled the mystery of molacular memory. but a team of phostbusters disputes his claims.

The anartment on a obearful jumble---a

through a subtle election. much-cased immunologist. Or Jacoure Bernwage pharmacology of Allergy connected contracts a Netignel Institute of also taken a walk on the

future," in which doctors munication system to

wald surfer Travelling down - diseases without using Take a sample example.' Bervenste ex-Inorthache Then you take body. It unsers your stomech, it blocks your

search the booth the sinnel Those are reducal securities ones. "A cipluman " many John Mariator culture of the

respectant expecting purpublished some of the

"Bizame" sava Henry Merzger Director of Intra-National Institute of Arthresis were not the French wine traught, because all you'd of wine in a glass of water and you'd have buroundy." remain agnostic. "It's a little hard to believe," says James A. Scott, a specialist Massachusetta General Hoscital in Boston, "but that And at least one researcher level that are not chemical

at Upstate Medical Certain at the State University of Both or not Benunceta's work has already generated

one of the poissest and most That controversy began in 1988 when Altium, the marts on "water memory. magecian James Randi to

versy and Benverions himself seems somewhat unifosh at the role of grussding scientist Now 57 he is an elegant of Gallic expressions, at laset one of which makes Margello Mastrosanni, In-

balance of his warrische. arrives to pick up a reporter pristria virtage Jaguar

when, in the party Eightee

INSERM Recalls Between

site "This young men saud

homoppath" I said. "Is that

tew sample scientific bests Dunng human alleroid sweeters, allergens-dust for example or pollenshand to an enabody celled for short. The allergen-ligit combination then trippers release some of their as degraviation

They took this solution highly dilute solution

#### polleagues of everything TEAM OF CHULTPIKLEDS OFFICED IN INVESTIGATE THE CLAIMS



scours Remember of of Alleroy and Intiers mation link at INSERM The French Melicani institute of Health). His confirmersies in the

from shortrky science to deluraced thicking Because account of "witch hant" in both names and left

anti-lot in serum was nactional three reported

As soon as I saw this." molecules of arti-toE to Curroup Boryansta decid distant " he espision "there.

diknon, it's just water " We

in 1994 Berweriste and and produced Final and Disco-



#### INTERVIEW

#### GARRETT HARDIN

"Every time we send food to save lives in the present, we are destroying lives in the future " says a brologist whose ideas may be shocking, but just might preserve the planet

As high winds whoping along the Pacific coast tried to concentrate on my season for flying to Sacto Barizara I was on my sery to intervew Genet Hardin, microtelogist and ruman ecologist, most settlely known—rotonous even—for his 1968 ecoly. "The Tracedy of the Commone," in which he de-I was five months pregnant, and given Headin's views on population portrol and prophecies conrevocate to my condition. To my surprise, the re-

outed harably opmonated and fiery aspects of his personally had been greatly exapperspect—I suspect by his many ontics, instead. I found a pectie man suffused with a love of nature, family, and classscap. Hardin swims lans daily at his Santa Rarbara. home, which has become a haven surrounded by Stronger than his determination to execute vioprousiv however is his retendess 40-year chalporwerhored social ideals. His latest book, Livetia

PHOTOGRAPHS BY TOM ZIMBEROFF

Within Lines (released by Oxford University Press this fell), further explores the concept that unrestrained tepsoductive growth throughout the world threatens to woolk redespread erreal character.

access disorder.

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discrete was temporary a mane object the population out-inthis birdle, in manistration, devide own set garging separa-So early in my varang "septam Huida", "West influenced by an unappaler hero; Anose with a seal group of belagate. I was concerned about future approximate growth. "After commission at his in minimal property of based on, which was a set of the property of based on the reg Wards will. I factor worked for the Currage interface was a possible for the commission of the set of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the commission of the commission of the commission of the set of the

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use at its outrent rate, check will identify entire.

The same year havins left the aligne proper at Stanford he accepted a blacking position of what is now the University of California at Santis Barbana to heach following positions, exclusion, and later summer accepts; flatted in 1979, further confinues to stemdate debate and provide controversy with his factoriseting ideas about the human constition.

THE THEIR WANTS TO NATIONAL NEEDS
Gene: In your 1970 book, Equitming New Ethics for Survival
at you said you lied as if you meen?
Headrie; I'm recessed with the relationate of society to con-

colore sisting." With did you mean? Heavier für mersende with the relacionate of society to conferce critical sistosis and the injunitary pospilo show in developing a finishing olderine signant commissional conveloping the sistosis different signant controlled as a comtrolled controlled to the controlled as a comtrolled controlled as worked out as a subcomissional with When we usure the a read-body the conflict is intercepted by the in holivous companies and prevented international concernations level. Any thought throughts the customers in a consciout lower like block only for certain insteamers, along and PROFESSION: CHILDREN: Four wards of Baldge, the four wards of California, Sarth Station, 1998 Four Williams Four W

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or any victime obsquire fives too many draftism and segments these of them are only a supported of the child survived frests obleve we can reduce infant mortally by sending these people the best modern medicine. Cofficially, the last offset blader growth. But according to that therein coupleme in Tred Wasto countries have so many children because or the dock in Apphiliar than a control of the countries are controlled to the countries of the control of the controlled to the countries of the countries of the countries of the last red successful youtfall of those for fresh as one well successfully wortfall of from their feet and successfully wortfall of from their fresh as the red successfully wortfall of from their feet fresh or the red successfully wortfall of from their feet fresh or the red successfully wortfall of from their feet fresh or the red successfully wortfall of from their feet fresh or the feet fresh or their successful or their su

ther furthly somewhat But the result is assumbleted an increase in the number of people that reach age 20. Fewer are born, but more reach adulthood, providing the risk guilembrin of breaders. So the population does not decrease and the hypothesis soft really has are tendemearted. We'd feel terrible if trips. We there it we on the note there....

Occor in 1987, Paul Etrachie, Populathe organization Zero Population Growth (ZPG). Was this an effective

Hardin: The policy of ZPG has a funds ZPG ware determined to enable wornf women are made every of the importon who ward inone forview will have

some sort of company I saw ZPG heartest for fedure. But still, it was a step in the current for population control 2PG stan had another problem. To enonuments the browning of more intellocal ZEG's entre attraction has have arrong the refere provietion, Sp. n effect. ZPG is encouraging college.

receast of ancouracing registed farth-Onse: Wrong 'The Tragedy of the Commone" was very difficult, you yo said, be-

to avoid mare." Modia: The basic concept of that or methernetician William Foster Lloyd, His woods that if a community owns in will spend a cozen more quickly without thribby then if the crown comes raine. I expende can die etc a comabused The parture on private land

ter year. Pather then focusing primarily on a common rurse I concertrated on

a common land, common nesture, and - developed my essay from there. I tried like a common pasture or community choose without complete responsibili-I kent coming up against a confict

warrs and everything will be all night successful in so many other areas, parprice his goods any way he wishes. On cause he doesn't sol enough, the per-

ean selling too low will also go broke be-If Evertuelly proper balance out IIIv and mone' I resisted grying up the idea of applying the photopia of lawsez-fave according to population control Can

by honeuse some of the expense of how. ing children in 1956 by except, there is have only the number of children they can take care of So unlike the entitle. ket a lassez-tare system of parentage usedness to a manus chaldren. In a proofy takthat free-market principles could be

Ome: Haven't a number of neople orbsized the validity of the concept eff-Haydin: Sure. One argument claims that a community of lobeter fishermen

who fish off the coast of Maine functions Hardin is wrong!" my ortics say. What these alseptice mass is that this comless members. They take as much lobsuccessfully when a restricted number of people dip into its resources. Num-The example I frequently ofe is a successful communistic group of religious em U.S. and Canada. They are discie free market be applied to how many ples of the Marcest procepts. To each children a ocuple raised University



ulsoe. The Hutterite society has found from practical experience, however, that the Mateist concept closen't work pie. Pappie start going astray, man do-To resolve this problem, when a now community of Hutterties forms, its mem-

erel pot is provided for the enere pos-

other farm as soon as they can' when the community grows over 160, they diper of old, young, and workers. The Huttentes part make a commone work many 150. So to you cohou I way "A commona doesn't work if it's made up of too many people, even if they are good " possibility for a successful commons becomes less and less their gued that there is no such beast as a

Hardley, True. Roags all over the world have perhales. Now suppose that people suddenly become concerned with Would you get the pathole in front of your house fixed faster by a local county agency or a world agency? We'd revor not those potholes block from deneral. are not a plotter problem and should not in each bedroom a very look activity

Marry of my criscs believe people of Third World countries can't handle tainly they can be given information but to give them food or money is a mie-take. This is the commons again. If

Sending food to Ethiopia, for instance, does more harm than good. Each year the production obtained from Ethiopian land declines. The lands are used beyond their carrying paple than renewable resources. Overproouction occurs Eventually the soi loson the cutofficated value and fromth are stripped bere, causing and erceion and severe floods. The more we encourage population growth by sending more and more food, the more damage is done to the production system. Every time we many tond to make how in the present we are destroying lives in the future.

Most conventional ethics, such as "

OWN

volved. Those who innuly formulated these ethics I suspect never conceived could see others starving to death on TV at "rest time" on the opposite side

of the world. We must neelize our ability to know what's going on in other perts of the world far exceeds our abial ethics sound good but don't work when the seale is oriented it works in Our best chance of solving these problems is to let each country produce. cides is appropriate. This means each country must take care of the babies it escape hetch for a poor country But then no cation is really moon if it

#### •Like a blueprint same value as the

house itself. There's no point in worrying about a fetus when overnot underpopulation's a problem 9

be not Bangledesh, for instance is a non country it's the same size as lowa But 115 million people live in Benglactesh, while lows supports 3 million If Banglodesh had 3 milaro oftware, de people would be lying in the lap of liveuni Only one own one he make wenually in lows, whereas in Bangladesh two or three can grow each year There's no reason for starvation to oc-

our in Bengladosh It's a much richer country then lower but not with 115 mil-Clean; What form of population control

Havier Well the greathet sounds the repest was raised by Charles Darwin's grandson, Charles Galton Danen He they clan't faink they re living the good He unless they have a motorcar Use the subsynchile on the sumbol for nor sonal luxury. Reduce tertify by pointing out advantages of not having such

he quickest essiest and most efserve form of population control in the

trolled The U.S. appears more immi-

Economist Kenneth Boulding suggesttry be endowed with a certain number of green stamps giving her the right to have a costain number of children when she reaches child-bearing age. Depending on the population, the value of year Let's say one year each woman

have one child she can sell the eightterths to somebody sise. If she wents Chart What is your private of Chartie population policy, which prohibits couples from having more than one child? ficiely recognizing that they have a probrecime universal Execucinous the counby The one-child policy is only ennie in rural regions continue to have too

Ornal Will population control cause oth-Hardin: The Chinese admit their chill usal heravior 1 don't see any pertoular rifficulty repellment because lose beservice of a dominant elderly populate

is not a sensus danger arrivitiere. If an or manylygra of appearty are encourreged to regre early. When a deficiency of vising develops the elderly will be urged to work longer. This provides are tometically activate reen! How much and Ontil Infanticide as a form of popula-Hardin, Yes Looking at history with an open mand you'll see that interested have

Seas Pobert Louis Stevenson express-

## JOIN THE GENERATION THAT WILL LIVE TO 120.

the of the way to be finemented famile of 120 ours just beginning, says Refly Keeton, Rounder and p Longuesty magazines. Now, in her new bestudent CONGOVITY. The Science of Staying Young, cooperation with specialists from the National National Against Ass. Keeton tells you obset new discoveries that bring the deem of perspeadal youth closur them over before

new discoveries that bring the deem of perpetual youth closer from over before

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youth's appearance on every page of this existing back.

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THE SCIENCE OF STAYING YOUNG

es astonishment that island peoples usually loving towards children. Stevenson game from Calvinistic Sogtland of killing a child, but they dinever parry per niether in the South Seas, the reverse occurred. In all societies practicoccur. The mother never nurses the child The South Pacific peoples must ated with overpopulation. When you

ive on an island, you know you live in Through most of history there's been no need for concern about popstation control Nation service corne slorg with epidemic diseases and take care of the matter for us. Discose. Toler in the past. Because widespread. disease and farring no longer exist, we have to find another means to stop pop-(fation increases

Omn! What spenarios will unfold if Harder: Some organizations have

ture. Liqually I quote one of these prostep further end say that I don't have confidence in these projections. The will become so great that trends will change I suspect dispaters such as from reaching the projected numbers I rejuctantly make this statement be-

you want to led people." I don't want to Ré anyone, but clearly, crippling conworld due to escalating populations. Peothe effects of overnon-teatro. the land has been shipped of vegetation, causing erosion and flooding, leaving little may yet face a worse diseasor, perhaps.

in the arrest of ATIS Cleans: In the early Styles you storned writing and lecturing about population and decided to speak out in favor of aborton Why?

battes at once I short want people to

ble to be against aborton and still be

Then in 1958, I read Abarbas in the United States an account of a conference of doctors and Planned Parent-

Dr. alleger throught abortion was an extremely dangerous operation. Reading this book, I discovered abortions. when performed by compared medical professionals, were only one-fourth as dangerous as normal childreth. (Today news ( ) Other evidence presented at this conference suggested that having sound procedure, less harmful mentally for a women then being compalled 1962. I'd moved around to the other side and became a strong supporter of

Innatured abortion. By anning 1983 I was ready to go public with my ideas Certainly the time was notit for me to Own! The Supreme Court decision legelying aborton in 1973 stated. The unborn have nesser heed recognized in

the law or necessar in the whole sense "Why is this aignificant?" Harring The organism for and against

resue is a fetus a person? Are all type naturces, qualification is important. Evvision in clear in notice. Above 50 perish before birth. By heving fewer offspring, marringly are gible to take better care of their young. The concertions that person are virtuelly without value. If they persisted the portirued elesiones

Tree happens with humana as well About helf of all pregnancies are lost ple sey that an embryo is a human bemens must apply to the tiny embryo. with all the expenses applied to a person who dies Suppose a woman Banks she's preparati because she's gets it and says, "I guess I was just tota " Meybe she wesn't lete, meybe ahorson in such cases—if the

conception mecht be "life"—whenever who at products will have to be collected and given a proper bunal. If people want to change the law and declare that a human is present from the time the aperts enters the egg, they must A fetus is of so little value, there's no point in worrying about it in a society



Twish Or Bollon would by to improve his beginde menner

where ower not underpopulation is a problem. We derive here is offere self-in-wary last one of here entiring. Like the bluegerind of a notice a feltal mary last one of here entiring. Like the bluegerind of a notice a feltal here is not a turned being blue the notice here. As the self-in is not a turned being blue the case of here self-in war of the self-in is not a turned being a self-in in the notice of the the notice

Orto: What might happen if Ros v Hardin It's difficult to predict history. ward Many who oppose legal abortion condemn women who have from as selfget about the problems these woman may face and instead consider how reversing the night to have an aborton mobil affect them. The cost of resince these children will sconer or later on they really want to support an unworked child? Studies conducted in Eumore payet-glogical educational, and heath-related problems then children how to women who want them it is peradmenal that people who call themposing abortion. they ultimately ensure

Committee the 1973 Supreme Court do describert he 1973 Supreme Court do describert he 1973 Supreme Court do feet he 1973 de 1993 supreme Court de 1973 de describert de 1973 de 1973 de 1973 de de 1973 de 1973 de 1973 de 1973 de 1973 de de 1973 de 1

to condemn aborton

By the early Saventees, women were speaking out on their own. If anything needed to be said about abortion, women could say if belge! Genes Might you start speaking out regularly agein? Herdric I's possible. Whether I start de-

ustry again.

Hardin I's possible Whether I start defending Roe v. Wade depends on what happens—on whether I get so med up enough so intated that I can t stand being effect. DQ





looking). To people here, the passenger planes were something you only occasionally size is summer Weil, maybe that will change torright, he thought. They'll never look at a jet plane or a rocket.

Then he asked himself. Who are we toping? He want on close the street to the Cabaret Km.

> zerland was have things food More trouble. The ropes holding

ro," he said to the actor, "you reel-The other actor (in the Deboret Kropotion

stane. He let on of his end of the "What? And lose my personality?" said Zero. "It's "Genorie my ass," east Beter "On what we make

I don't know how you gain weight." He pulled on the "The whee? Gain? Back to America. I used to with a leasting role in the olars. There is America, we oght" He seried it away, burning their hands "Out trueys to be your late bendant" sent Zero, surice



EICTION In a world where the Nazis won World War II, some careers might

BY HOWARD WALDROP

have developed very differently The Offects Of Mienation



'And he cidn't have my looks Eeen Eeen Peter shock his heart tuestari a turnituris

in past the stripped place on the ffreads "Warriavilal" saut Za. en !God how ! don! \*Fight shows a day! name up in lightel?

saud Burchi's wylow from the nahapet find

ing Pars story again "I was there," said dd I know? I was fiftyed to sev something. Re-

reegd his firger, warnthe table. Plans, the sec-

lone, drums heaten, budies blease, rank on sees Menocomery and Exectower in the load Finor Bomberi Held been but in at the last mo-

don't get those ropes straightened out "Yes, comparis Ma'yon ' asset Shamp for all of A little after 5 p m, they finished the last rehears all and it was time for autone. They if had to

vare bun, joined from The conversation was Soft The Prices Secretor, English American Ger-

ensemble had been together for such a time they no longer needed to body knew just how every no When they do speak it was in a sprt of pig-Esperance comlanguages, and when the Madame was around

> bourgeon charm ains hous an area ter?" asked the Ma-Deter sighed as nomerone elee elec-

ton down like a dog when he refund spring day it was trisen years apo

There were tears streaming down his face. goody way "I remember it well," contribed Bruno, "for boards, I found the writings of Mr. Brecht."

"Thank you for your kind reminiscence. "Suck up?" said Zero, under his breath "Just another hard-luck story" said Shomo "I like it were Zero quedy "It has





# EVEN THE SANDS OF TIME MOVED ACCORDING TO HIS WILL



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THE LEGENDARY TIMEPIECE FROM A MAGICAL TIME

Arguing with Brecht had been tike tide ing to a Communist gost. When the mar/s mind was made up that was that When a weant was the only time val could show but he was been a Sta known to rewrite something Prior had been nitwieen and teeth off the last turnip truck from Ludow All henette. He'd ended up doing Brecht's comedy by published Britz Land's move inflated Werner money, which eventually became too chesp to woe your but with Then Poter found himself in America, via Höchcock, and Brecht

wears. There was a way on I was note.

rest his sout, who talked me into the USO tour with here. There we were week

near the Swee border, are phows a day. Hitler almost done in the brookst aud dod when I mid upopen if a "helin Herr Brecht dis I your long lost admirer Paper the doormat'

"And you?" select Medisme. "Wast can

Polar can librarioh friety years of memthe last filteen years. Yes, ege had mei sibly he'd focation how or was so when he ween't No, the mental free to oursy on their work without the share ater. He could also have said that read chesp American detective stones like steel strands

source Brettschronder wills the Cubura Which mount, of course, that he was a more in the Gehome Streets Polices. His ies (Zurich, he thought, rather than was easier-he could have been as Reich ha friend back in Bertin in the Ministry of Manufacture told him the few years. Have worn now making on auforwarding to Berlin, each year or so, a lat of furty to forty names. Of these, a

closure or Military would be parked their permanent readent also status in they would be saled by the Swas to

rangement, the Swas, the Reich in on or an Switzerland (self-was mened) If the Plaid: fined to swade, the Alce would drop on them Germany controflard executiving proper to and out-of rise New Iceland the lands along the where twee Rest in Reightland elegations

So the mener was understood At Friend his assisters, knocked and



The thing I like most about this religion is the lotal lack of humonisis

"Heli Bormann," he said, nonchelant ly nasing his hand a low arches "DK." said Brettschneder, doing like wise

"You remember that the two younger course of the Swatsan Minister for Culture are arriving Thursday?" asked Edward. "I had tried to forgot," said Brettschroder He opened the big 1980 ciliendar on his deak to February 13th, made a note. "Will you please make."

made a note "Will you please make size the ochedule in the half is marked?" May why do people come to Switzerland in the winter? "I centerly have no idea," said Edward. Whate dozing? "Those's a new show at the Kropotkin

prings in religion to the control of the control of

of the old official ones, from eleven

years ago, before the chin operation not the positivinous new official onesno, not really the kind of place, the typ of plays two young woman should see "Have a good time," said Edward." have to accompany the Rechmirate tark wife to the Turkish filing." "On? Yes? How's your Turkish?"

he're selle to be Carlott film;

"Oth? Yes? How's your Turkes??"

"It's being given in English, I am led to believe. Till drop back in later today, in any case."

Edward left litrettuchnesder starred at the doorway for all he lower. Edward smith the society for a film.

took an untimed supply of zambess in payment he give to obtain them be gar for the company-went out of business. I thought them quite good."
"I'd give anything to smoke a Camel again," said Shortp. They were putting pot

pumping up the beer spigote over temed the bar Mischrei was, as casal, rowhere to be seen. but, any compting writing, you could be serie the would have a the second be serie the would have a the second beautiful to was a thing about Bertoll Street. "I head they don't make them over these anymore." and Casale. The Turks you know? They claim, in Germaya, Anthis Bartol is the same thing as

Camele used to be."
"They're as full of shit as Chrismas geese," said Shemp. "God, what I wouldn't give for a sloce of goose!"
And so it went until time to open, when the Madame auditerly appeared intrins of Pater and earl, "bu work the door until 1950 hours. Then you may

"Me, convade Maderno," he said. There was no use organy with her it would have been the selving femica Hallow. Why the long face! Hallow. Why the long face! He went to the door Under the corlets washing upta a not crowd had gathered early. Plote I colored had sign out her twin to double earliest with sign out her twin to double earliest with permit legend. Torught — Cabaret Knopotkin—The Zoother Disarrobb—new

EPECHT plays

If woor't roally Brecht, it woor't ox

acity a piny It wour't executly new
They't been solding on it slaadly it he

three years strop Brecht to been sopy

surged expectantly toward him. He

opened the doors, steed back, noddes

his head toward the slabble.

"Southin open." The back.

"Your sheep have been located, but they're now with their genetic parents.
It looks like we're going to court."

Breathmade revised a lear mixtus to engite, entire, no desired to Casteau, who was barrierding sent band a sect of a decire to the section of the section of

Across the length of the stage was the paterned Zeroher Ensemble halfcutten let down on alength of spe. Behind it was the base back wall. Across the were strung a few cerking lights. No a Christmas tree with so few bulbs. Progle moved back and for?







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that how may far the Eurobest Trachardous "the choice of more three a maken how knowledge. Drawn



scross the stage, curte verible to the au-The band took its place in front of the curtan-barso parsi, clamet-and benationale"-one or two people stood, with the blue smoke of a hundred dif-

notion --- a harri rome down from oheroe cotton...The Zircher Ensemble Precame up. Another son dropped in Spane The Rocket Mens Club Time

gen einging 'The Night We Dropped the Bio One on Bingin Hill." Zero Peter and Sherro, in their Rockgar who is then exported offstage by a "Here we are at last" pays Zero Yest out of Basso Training! Our first

Door again!" pays Pater The flee pulled up revealing a bo"s interior, tables. Dropping in were huge

Futners. The audience-found # hibroun Unoncessary fun made of Hasmler Jr. When things out falling unfuring netiers and a stant, very net moved There. Then one of they instructor of

But don't you find it note here? rasks Peter cirrules from the Sahara to the oxies of Seturn," says the major Then the charmes denoted on end

sono "Dock Your Roder! Here" and a string shock your receipt riese and a charge line, not of caddets but true Rock. Bremschneider wrote more H. Jr., beneath his first entry

The cadets and Rocket Men ran of

Mann, comes on end wills at the codets "How you reserve" "Fast Fast Fast "

"At night, whitiphs see pro sky?" The cadets dropped down, becan to nount - One Venneance Weapon, Two

ness with the nushups, most of it deal-When they trushed, Mariey Mono road. "Right Today we're gorges learn

#### CHUKL WOITCHITZ

his findings in a scientific report, which he submitted to Mature in 1995. When the journal saled for confirmation of the espirals he farmed the experiments out to research teams in Italy, Canada, and lassed. According to Benvenish those teams reported findings semiar to be users the included them on he.

own report to the purma!

Nature tays it in never saw all the results of those shall but nomethalisms said Barrivanalish report to a soam of expert orderes. The referees. The services. Dut they don't say may be row. To such it see anything worth the expensions. Dut they didn't believe the results. This left Macare screening in publish in publish.

wering with the exponences, but they clidn't believe the results." This left Mearle corrected results in the publish Benwersam report, but with no good nasoon not. to At the same time, Maddox says, reports of Benwersales unusual inflings were about to export in the Feench press. On the horse of a dissertma. Addition

decided as publish the report but with the unusual conditions. First, the published report would be accompared by an odforid resembler only the termination of the condition of the related of experimental results for which there was 'no physical bases' Second, other the report was published, the was not provided bases' second, other the report was published, the was not provided by the condition of vivestigators recruised by Alatane to with its bis and witness the capacitation.

1935-Altron is week after the report was published—the Mature team sound at Decemberry PARCOL SON - Inconstory in Clamert, a suburb 15 moutes south of Paris. The House-man teem later dubbed "phoefpasses" by the cross was as unusual as the report if came to reveligate There were no immunologate on the beam of the investigators was Maddon bismed Accepts and Whiter W Stowert of the National Institutes of Hosth in Retheads, Mandand, who and who had made a reputation as a third member of the team was James Rend. a celebrated measure. Mac Artisti Econologico Solicia and self-

appointed skipple who is participal test known for his origing and righly public barille to expose and discredit psychic Un Geller. This strange amalgamation of glossbusters sport a week in Benglossbusters sport a week in Ben-

gardy enough with the Alexen learn -restating from speaks of Beneverable apparaments. Beneverable says each of these yested posture residue. But the Alexen seem od not aggie in faci, Seward declared at the resultarial concorned adequate scentific concorned adequate scentific control to all on been in pillice. Naci curve a senso of these more trais with the finaline term isking extraordinary measures to erasive results could not be manipulated. As

eas concorned adequate scientific Next carrier as service of their contractions of the contraction of the service of their contraction of contractions of their contraction of contractions of their contraction of produced and their contraction of service of service of service of service of service of service of service s

the was not become supported to the unity factor of the prompt in the case of the unity factor of the unit

DOD-Comment of the party was a book processed on the party was a book processed on the party was a book processed on the party was a processed on the party was a processed on the party was processed on the party was published—the Adams was the true party was the party was the

worked and hayly public purisht. For the nest served the paper of flaunce, Lo Mande, and even Time bested with open and the public desired with control suggested. White two scentists between the fire could of the hypothetis serve wild, many flaund Massett so co dissibility and over compress where Make Junior of MIT "A travering circus," sood Masse Greenia James Soot "Contresses of what I seekly suddocked, were before any circus," and Masse days suddocked, were before any circus, and the control that the control

The Nature Islam stands firm, "Had we known how poor the evidence was," says Saward "Nature would never have published the paper and we would not have gone to France"

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"We would do if the same was way to furth it out All the publicity hurt. Up for ever uator by his bosses at INSERM Renventie's job seemed to have in the balance in the end two evaluating stop investigating molecular memory ceed, and in 1989, the high-dilution

experiments were querly resurred Romenton has opposed triple with smi-lgE: Berveriste says he's gotten sense of new experiments to see if highly dilute solutions could provoke organs in twee experiments he inco stated curses over with een altumin gunes goe' hearts, suspended them ri a class cylinder, and legs them tables to drip highly drute solutions of consaid the egg albumin. Benveresto knew they would have a brocal im-

would drate, and blood flow would albumin was so difute that not a langer molecule of the altrumin remained, the mercent They digted slightly and blood fow through the heart registoroid a detectable increase in coner reacting to what was new plans water as if the egg objects were still there. complete the Area 1991 measure of the Federation of American Societies for Everymental Rickogy in Atlanta With the exception of reports in the Journal

prese did not take nofe the bear questions posed by his an arread organ-react to something that sun't there? How could water After much reflection, Bervenete pould have the answer He belowed that molecules communicate was electromagnetic radiation instead of by exchanging chemicals Like the

to a receiver these electromagnetic

24 CARE

sicres have different and specific. Robert Becker adds, 'Broelectro-

frequencies, each one promptific a different and specific twochemical reaction. "What my experiments show in a tembly clumby way," he says "to that when you highly divis a polytical year necessite the resiscular from its electromagnetic message contained

The medium for these electromagnetic messages, according to Berveriste. is writer. This powerful communication he says, has been demonstrated in his expendents again and again Whateer unifer tellions about setiloff or agg albumin, Benvenate notes the original molecule modulates waves congress more union motion in causing them to emit electromagnetic signals-and to confinue emitting are core. 'The message remains in the weby " he declares, "rust as your

#### €The water

just as your voice a tane recording

vou eton telking \*

In other words, in Benverook's mind by electromagnetic sonate passing

Through the idea is politioweresi, to say the legst, evidence from other researchers has becam to fell into niana Specials such as T. V. Teoria a Creatily of Minnesota biochennal whom Serverside likes to one for celular functions-including enzyme activity and methods of DNA and RNA are shrulated or suppressed by electromagnetic fields Tsong indeed constitute what he calls "the language of the get., Jacob of Betweenste. 'My work is bused on omogles that we already know "he don't yet understand "

magnetics is still beset by an there has to be some kind of engaged reaction to explain molecular communiciplies, and the obsesse condu-

date is electromagnetern." Berwinistes work to save to a begin rang, correbody asking what f?" And what if Benveriste is right? What if biochemical reactions can endend be prompted by electromesonesc signals recorded in water "Once you're able to pick up the record "some Bernerotte "Art have a whole new biology. You can digitize the message you can make druce from a You worth need the observed substance, be it ordinary asprin or AZT, but samply the signal that constituted the code."

Betweenste also twiks the electromagnetso language gould be used to do nen-massas tests "You stek you electromagnetic field to analyze your even use the body's own code to perform non-rywsaws surgery, in which repaired by sending the appropriate electromagnetic aigners to head do damaged cols " Killer diseases like cured by samming the electromagnetic norms that turn normal colo cancer. ous or that enable the AIDS your to

find the immune system cells that it apequistion-included all of Benwoisso's rechideution work—shows that taken leave of the scientific senses Firm Nobel Issumptes, notes Duperer

in pursuit of private passions On the other hand, his few may presage the dawn of nothing less than what flacker calls 'a new provide mark-free to which these ent dogmatic theories of how the universe works will be replaced. In work; refusing to let go until someone proves him wrong to he secretary doesn't pay aftertion to empto data like that "he away Even my french going to kill myself. But if it's true that we can have molecular activity without fundamental process of life.

I have no private passions," he coordinate "All I have are those data Whit am I supposed to do with fromput them back in the chawer? DC



The crater in their yard filled with large chunks of ine from the sky

Hersel and Alice Artios were watching television with their andren when their Wood Count, West Virginia, house began to shake. Their son Donald Amos, a chemist at the equoyah Nuclear Plant in nooga, was in his truck right outside their front door when something fell from the sky. "I was about fifteen feet away from the spot where it hit," he says, "it made this tro mendous thud."

The ground near the televi-ison dek in their yard was now a cratter, one-and-a-helf feet in diameter, about six inches deep, filled with large chunks of ice. Smaller pieces, the size of marbles and bas were strewn in a 30-foot re-

No one thought for a mo ment that the ice had come from a faulty los mac aboard a flying saucer, but many did think it was ex tratements. Hersel Armas thought it might actually be a piece of a comet. So did Gail Hartshorn, the director of Emergency Services for Wood Count. Acting on this hunch, Hartshorn contacted Louis A. Frank, the University of lows physicist who claims the

Earth is being bombarded by small comets at the rate of 20 per minute. Frank says these comets which measure about 30 feet in diameter and weld about 100 tons aprece, vaporize in the atmosphere and are the source of the Earth's waters. But he is also willing to consider the possibility that on occasion, some of them fall to the ground as ice Hartshorn already knew what this ice fall was not. The National Weather Service had said the ice could not be weather related. There was not a cloud

in the sky on that fateful June day, and the midday temperature reached 88 degrees The Forteral Assistant Administration for its next

had never heard of a 50pound chunk of ice falling mm a niano Bosidos when ice does fall from aircraft, it is normally blue due to the chemals used in averaft toilets. The story would have end

here had Heisel Amos not had the foresight to collect about six pounds of the transparent ice, wrap it in plastic, and put it in his froezer. To have the see analyzed, Hartshorn then con-Inched Michael Frizzel, Ishino inster for the department of Maryland's Baltimore County compus and research director for the Enigma Project, a Mary land group that documents un-explained phenomena, loe in

hand, Frizzel sem samples to One of the scientists, Victor Fulds, an environmental chemist in Maryland, found that the "ice bomb" contains secularly large quantities of silicon, strontium, and

bonum - oil of which are not normally present in drinking water "Tim willing to sufuly say that it is not water from an argitane." Fulfid agreed The other sample went to Robert Soal, a geologist at the United Stees Geological Survey office in Reston. Virginia, who found that the ice was actor-

egesting a terrestrial origin. But these results do not totally eliminate an extraarrestrial origin for the ice. "If the oceans did come from comets," says Frank, "then you would expect this ice-if it was from a comet-to be much like or-

many precipitation and ocean water."

Enzael intends to continue his investigation and still hopes to pin down an origin-terrestrial of extraterrestrial-for West Virginia's mystery log bomb. -PATRICK HUYCHE



#### AUTIMATTER

#### E GRAY BARKES



one of the country's est collections of sed in a room of the 1609 antebel

Waldomore mansion, one up the Clark son public library system. the Gray Barker UFO Collection consists of 30 government surplus file drawers chock-full of correspondence and car histories spanning more than firme decades of native-son Barker's contro

WEST VIRGINIA'S NEW

T'S EXCHIPTIONAL What do mystical tates, out of body exper

ng to Filtes White, et of the newly published ournal. Exceptional M

1966) und Mon in Black: The Secret Terror Amono paranonnal, says the Nes-are characterized by rium, who died in the ridiculous," One cabi net beers an old burmoor

TION FEATURES NATIVE SON GRAY RAPKER 1984 at the age of 59, feet gan investigating UFOs n 1952, begin vertial career. The collection includes some 300 case, a close encou books along with 75 groups of magazines and tike a Who's Who of American UFOlogy, includ ing such pigneering lumi

> George Adamski an retired Marine Major - Tion on



Barker's "torbearance for

stocker: Flying Studens Are Real—The Air Force

So far, the UFO

drew a crowd at a UFO

Historians and other

sted parties she gister with John

freesure trove, but

PERSONAL PROPERTY IN

If some people can really peer into the future and why con't priorite be, says Lisette Coly, vice president of the New York-based Parapsycholo

ov Foundation, because most of the scientists are men-and their mesculine ominated Hetricobi ist doesti't work on eluswe phenomena, also

To explore whether a female-cenfored perspectwo could bole unlock the

purnals, many writt Barker (above). The The Sourceian and Flying ow Masszone, Be Saucer Magassne, blank-er's most enduring contri butions to UFO life were the parangua-laced They Knew Too Much About Flyser Sauners

Cornett at (306) 624-6512 Ruth Yeager, confessing one viewing the colleg-

nly covers such topics a altered states and

secrets of ESP, the Parapsychology Founda-tion held a Women and Parapsychology confer-ence in Dublin. The eight women scientists who real possibility. For examnin meancher Buth-inor sufbeast Asia Studies ed for a "softer," arthropological appreach to PSI-cong into alleged sonstrest on

insisting they perform in a

ty pointed out that getting away from a combative. male-oriented science vocabulary (terms like the Big Barig theory) and incorporating female archetypes into the study of arangychology pouid

and to new insights. oreign Service Institute researcher Arium Khiti discussed how Muslim woman have preserved male traditions that supposedly foster PSI

Josnne McMahon, a conference speaker who heads the Parapsycholo-gy Foundation's Effect J Garrett Research Library says that the conference

was not "a men-worsup omen thing. But it ed with a driemma or a

research problem, parasychologists may be able evens by considering a

-Sherry Baker

## HAUNTED TOURS OF

Chicago armore officers tute or the Lincoln

Park Zoo mght core bus four that alons at Resurrection Cometery. home of Resurrection Mary, Chrongo's most ous ghost, and Ro son Woods Indian Burlal Grounds, scene of strang sights and sounds Those are two stops or

Dale Kaczmarekia \*Excu sions Into the Unk tours. Since 1983, Kncz manek (above), of Out Lawn. Blinds, has conduc ed these popular wee bus fours of Indian burial persupels. The refer mean and haumed historical rdmarks in and around

Excursions Into the Unknown" was an out th of Kaczmanik's Thought" says Kscz

marek. "It would be a next idea for people to experience the aura of haunted places " But do any of these

people actually encounter de on a phoet four? "We have minor encoun-ters from time to firms." claims Kaczmarek, "and

photographs at our most active stops." Kacomarek says tourpoens have taken photos

staircase in Jane Addams south side. And many have expenenced a cold

spot along the stancase of That Steak Joynt, a restaurant on Chicago's north side. While tour



oers haven't witnessed the "disappearing house" along the dirt trail leading elor's Grove Cen

etery in Dok Forcest. people have gone back later and had st encounters," Kenz

lifes to explain.
Kaczmarek, who dis-plays his brochures at the Chicago Visitors Bussau, plans new timeraries every year. "There are over a hundred and fifty different Chicago area," he says.

Ther's about sixte years' worth of lours." —Zaca Paskin

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#### FRAUD

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and morey typing to build on the bisput fracings: Invasinguition at 3 labs University. MT, and, intellily, et in NH performed letter more than a perflustrory probe of D (looke charges as the New look Press wrote in a scathing octions). The most invasingations of Dr. O'Dow's complants amaded of an oddboy setters, ordering out the resignants.

O'Tookin complaints smooked of an oldboy setsnotic drawing up the wegoes to predict ascertific replated and: The truth came to light only when the case tell under the noses of NBI securties Waher Stewart and Nad Feder and the House Bubcommittee on Oversight

and interesting state of the st

ly eller the Becris Service forersically analyzed imanish Kan's laboratory notes proving for data entres were laeffect at a larer class. After the years of viffication below the was firetly uncleased would O'Toole do it again? "Absolutely Be

O'Toble do it agian?" Allocutes; the outset at the not of the week her more fundamental perceipted of the enter possible of the properties of the enter possible of the properties of the enter fundamental perceipted of the properties to a bidden company in Certificity for the properties of the properties to depth or the properties of the angle companion the descript of angle properties the properties and promote deliverage where and promote deliverage where any promote deliverage or the properties of the properties and t

of which allow abuses to flourish. The OSI is stall may grow from Yeinvessigations to 28. including three lawyers, and, to ensure deperting, the offace may be moved away from the NT-The NSP-has seased strategy put eliminating regarding impromodulation in secondary a bighdor rein or universitation. And a 25member panel of the National Acade-

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#### EFFECTS

det Barracie Najht.
Than come Sherng's solo, as he locked out the window at a board-locking shapshand helding up a cardoxid from He did some come patter then went on to sep "I Wish I Had a Little Bockat of My Own."

Then the lights went up, the intermeson sign depiped down, and the halfcurtain was lowered to the stage.

Backerizage the Mediems was funce. If she yelled at Sheep. "You was must take that song out" she yelled at Sheep. "You need to the sudance identify with you need the sudance identify with you need to the sudance identify with you need to approve the sing it he Sing of the from Will." Shorth weather of the hind with the sudance in the

wrong musc on I sang it. Yell at the bard.
"You must always, always remember the Verticemonthyapithat Nor must always named poople they are watching a portremone. Why day you think the stagestand holds the peop moon so wayone can see her? Are you an id-CV What were you thinking?"
Sharrip peaked backing off on his fin-

Yes, Nothing "
| Why must I be saddled with morons? Sherrp sad something under his breath

beeth "What?" What did you say?"
"I said I gotto get a clink of weter, or I'm gorna less my visios neet act."
"Thefs not what you said."
"Yes is compade Melam."

You once you all sharing, and deeppeared offstage.

Zero set on a crote in the elleyway it was bitherly cold but his was the crity place he was sore Machane would't follow thin. Peter come out, if up a bust are of the warrias had brought him from a outstorm?'s actively.

We got hid archive way to make

"Wasn't it Pitegerald that said nothing much starts in Switzerland, but loss of things and there?"
"Meas the truth should I learned."

said Peter.

"Well, I don't went to be one of the things that ends have," said Zero.

Peter thought of fine than a move he'd been in long ago, lines dealing with units, experiment, and doath, and stated to say one of them, but didn't

hold begin to long ago, learn dealer who be seen in long ago, learn dealer datased to say one of them, but dentbedder, hey'd alseady used the bast lease from that move in the play. "It's like joth that lot great lumy sofer ones" said Paler. "Druck" I said, gr foy politics point young men, son your play of the play of the play and learn your good and learn a past can be said of the said come. Just can be said of the said come. Just can be said of the said come.

Paser shrugged his shoulders:
"Where else is there to go but here. Zorg?" he asked
Zero was quiet. Thon: "Sometimes
get so fined. Pate. Soon well be old mail.

"But the distri—" began Peter
— and Brecht—" and Zero
— will the forwer!" they treshed in
union. They bughed and Zero fell of
his crose into the snow. Then they
brushed themselves off and went back
inside.

Breitschweider had mode his rounds of thickes during the breisk. His looked over his notice mission an estimation of them he as a second-clinic no one of them he as a known out, then drok in general baries, lessing the pre-needle save lie back in his throat. Then the band came back played the list-bed overhire, and cards dropped back in ...

desposé back in.
There was a classicomi lecture on the Ayurel fette el Fritz Lang, Mehopolis and Flav in Mond, which then wert badwerds and forwards to cover oliv grosseerd solving filter. Hannalistikot FP1 Artsaptid Alaft, Dar Turnel and Weltmaumochil 1 Statist, at which Zent resisted on confaming Lans Religious and control of the second section of the resisted on confaming Lans Religious the control of the section of the mention of the section of the resisted on confaming Lans Religious the section of the confirmation of the properties of properties of properties of properties of properties proper

arrested on certaining Levil Relationals with the Dissolved Mindeers. Detectionation wants understanding with a Dissolved Mindeer. Detectionation was also understanding the Than the pilips minded on the Cardula bird. Despite where the measured adults lips-security by the levil before access to the minded and province with musticide premise do no them, and a bandul of lay of on them, and a bandul of lay of on them, and a bandul of lay of on the province of th

da Crassi Major Strasser comes up to the three Rockel Man. "Suddenly," he was "a remagazing crass!"

Thank Dad for being more proud than angry.



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hunger representing a space helmet I'm easy, oil now!

A pageer-traight metoor, pointed red shap, which flies to funders. Zero, he. coge hanger helmet now gone, floets up anto the air on wives in the dark, a hide-The spot of placard. One Goes Mari

"Fren Fren Fren Freni" says Stemp, staggering

action-motor stage It is bound for the

far reaches of the Solar System. Our in-

lected Works of Many and Legen, and

this maple before it can spread unapproved thinking to Nazi Societist

There was a blackout, four signs were fluminated, one after the other

ness. Zero is in a bulsawood framework sharped like a small streket. To be uniform has been added a bent cost

One Data Killed

the brilliant but non-Anan playwright Ber-(There was a boo from the auckence. followed by laughter. The actors onstane held still ustil it was over t "four first assignment is to intercept

to floors cirectly in front of it. "Whoal" instrument penel, running his hands over his cost hanger. "Feen Feen unmoving except for the lips, making perfeet sense in a manetorious voice, secannot be manyaneus orang pints on a ing vertical smoke, are pulled by appea

back of the stage The spotioht searches around Back Peter in his ship. He is mumoting the Soldier's Creed At the other rade rocket Peter takes out a dort our, fres tween at the toy, his non outside the

sterile framework on his releasts the rich. mokel-if expincies like a culata

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fri gold datur 19th Rei I sow (Bethy Alam By half of beneath, it in mane of a mittle in S47. To ardia, the step as a field all pag Cathing used with functivitied unall date Then an logarhidexen hom is blown backstage, causing the audience to jump, and Peter's ship is bathed in flickwing red light "Uh oh," he says "Prouble." Then the band begins to play settly, and his large. "I Windler What Debone" to Denn in Fisching America, Dennoth".

econing bong in resulting America tonight.
The ship afts downwards
Blackout A sign Mars
When the lights come back up the stage is clear A

which drop doth covers he ground five a full menucionthia groupes. The mineral tablescend she, this ineads, files out of the weight and his black file on his cas, said, files out of the weight and his black file on his cas, the full result of the said his said of the said his property belowing the his case of the said his case of the result of the said his case of the said his case of the east the said of the moving for datage. Then accrite the loss files of the said his case of the said his case of the said of the moving for datage. Then accrite the loss files files files of the said his case of the said his loss files files files files files files files files for the last some said of the moving for datage. Then accrite the loss files files

Then the lights came up, and the channes, stagethands, actions, Lathras and clarkwalahers came in, taking their bows. Zero floated down from the ceding on its week, blowing issues. Then the Madazine came out, glaining at Zee, jurned and took a bow to the ductioned by harmy survived Brooth.

Then then all passend among the libities, holding out bas-

ly dissection shift" he says

Then they all passed among the tables, holding out bissests for donstions.

Bestsotnesider stayed at his table drinking, while the auclasmo mergiad with the mambers of the Ensemble He accord that he'd wintbe nothing in his notabook since the cause of a honer size after intermission. When he saw Peri

out the door, Brettechneder work: Suspects than all fibred their vasar fundam. Then be pathesed up ha ontings, nodded to Casper who was sell tending ber, and well book to the harm and to better. All the well be Christ, it's even colder than this moning, thought. Peter He turned off the man servay, went down a size street. The grow, which this manning had seemed to white and

The price, which this miniming had issented so white and pay, was storp age producted on Sine his on the human pays, was storp age producted on Sine his on the human pays and the product of the sent and the product of the pays and the pays

As they think a soci into the bears, then the mosts in which the were bear up the were bear counting through the tosty as on the way. The right was shi clear, bittley first left less dark and saw the slave moving dot of Space Pattern #6 on as two flour orbit. He haved a shreeter bell. He knew of a place he could go and get a cup of mail coffice and washin shreeter bell. The knew of a place he could go and get a cup of mail coffice and washin shreeter.

Herr Brecht would never cross his mind. He began ting "in the Hail of the Mountain King." DO

### IKFOR COCANE

\$1,000—for mulberry outlings, organic testifizes a simple humbon seconside labor for preparing the held duction-without much success. The

\$2,000 a hoctare to stop resing cock

and plant Frazilinuts. The pnly problem Browli mets take eight years to herveststop plenting cace. In Bolivia, farmers tryle the menory related the mile and Silk, Conway insigts, meets the stand arte for a parcepalit substitution nonport potential, that is more lucritive

than once that is easy to cert to matlished, and pave cash on the banel in 1990 for the Wenezuelan planning commission by world-renowned sencultured C. B. Japannethe Rep. conclud

lombia are well suited to the fermion of coccors and production of raw silk. Accontinue to Day, concer conduction in so profitable for the family farmer, sen-

culture could esoly become a usolul For certaines, sensulare has been the domain of appoint sites neptered in could be a tremendous boon to Andean of labor and a long tradition of tradie manufacturing, particularly option in Colombia. The secure also has ideal ocction in Japan, where many of the sleps have been modernized, the silk crop is 560 Mograms of cocoons per year.) The Andean farmer, by comperison, can get ten grope a year. Accord-

ss. Peru. Ecuador, and particularly Co. periods a year (The average yearly hectare with two rearing periods a has reached an average of 1,800 kilocompletely free to farm, price, and selftermediary who imports the siloworm eggs, republish them, and then sale is then obligated to sell back all his cocoors to the same intermediary who does and exports from or holds from spring, in duhance of the system, the Sarea Cruz farmers bought silkworm

> vest was probably one of the best-quel-In Timber, morecally the selk honey mann seems to be over The Colleg Fort. eration is spinading the word-"There's no money in silk." Sheyre say rig "Go track to coffee " Farmers are

> small family farm with one or han hertanan manerum " Wendtier Colombian no count to installigated which is large ambusiness farms, with huma ru-

> cides and herbicides are over. The pippat must rely on small decontralized on ganic producers, largely from the

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fiber "Unfortunalisty." Conway says, "he most endergered opened on the face of the earth is the That Ward laster—he's a variating bread. Coarty, sorouther could thing a beter levelhood to remost stipovimilised regions. The faure of the project will be the ability to include or levelines at the faces. The faces is successed.

ter levelfood to servate impovimilised regions. "The fature of the project will be the ability to incubate enknowms at the ferms." Naviesta says, in Santia Caus, the farmers have even built their goldenosty hoping to find a way to be projectory many self-culticancy, and the farmers hope as the resing capability in the fature. For Naviesa, the success of the self projective will mean success of the self projective will mean

pebidy in the fauné. For Narvazz, the success of the silk project will mean that teachers and hearth-cars princitioners will come to Cauca. Silk for Lab enhally piqued the interest of Weconen House Representative. Jerry Krogdon as well as You President.

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The word about sik is spreading at the grassroots level anyway Conwoy has recoved requests for assistance tron developmental programs in Swarateric Word or well as from coranciated. zations throughout South America. "Everyone in the region is writing to see what will happen," Narvaez says: "Wirve been asked to send seeds and traces to other parts of Causa. I saw certain that in a few years all of the Causa livality will be covered with multibrity trees and benitoon wome houses."

#### A DREAM DEFERRED

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