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FIRST WORD

COMICS ONLY: Something funny this way comes By Bob Kreek

he first rule of comedy (and love) is not to examine it. The second rule is written in ancient, undecipherable hieroglyphics and is therefore incomprehensible, but the third rule-and this is the kickeris that comedy should break the rules This leaves us with (A) a paradox and (B) a few pretty pictures of Pharaohs feeding birds for no apparent reason other than that was the easiest thing to capture in granite

So why comedy? Why a need for Cornedy Central, the only allcornecty network that features not just classics like Saturday Might Live and Emile Koyacs but hysterinal new shows like Whose Line Is It Anyway? and The A-List? And above all, why can't I find a cab when it rains?

All these questions, except for the cab thing, can be answered



Higher taxes. Civic strife in Eastern Europe, Saddam Hussein, Counte this with a new season of Beverly HWs 90210 and it's easy to understand why suicide and worse. Karaoke are fast becoming the answer to the insanity of the late twentieth century. You're science buffs (I'm a big Star Trek fan if this helps me relate any better)-you know the importance of being able to heave a collective social sigh at the madness

modern civilization imposes. Laughter, apart from in my office, belongs everywhere. We should be able to laugh at our problems, at each other, and most importantly, at ourselves. These are the strides we at Comedy Central wish to make (well, that's what they tell me)-to allow a country to rediscover laughter (or at the very least the Post Office). Mystery Science Theatre 3000 is a perfect example of this Even the premise is goofy. A man and his two robot companions are stranded in space and are forced to watch terrible Bmovies. And do you know why this programming works? Because it's funny! It understands that whatever is standing in your way-be it a monster or a monwhere we're coming from That's strous economy-is best dealt what will save our souls, the

missing a cab in the rain a whole Come evening, after a hard lot easier to bea with DO day's work, we all need to laugh.

with by laughter

(My wife achieves this effect by comparing our salaries) So who can we turn to? Do you know the story about Pagliacci? This man goes to see a doctor, says he feels that the weight of the world is going to crush him, that he's going insane and feels so terribly alone. The doctor thinks, then says, "I know just what you need. The great clown Pagliacci is in town tonight, if anything will doctor had had Comedy Central.

cure your blues, it's him." The man begins crying "Doctor," he sobs. "I am Pagliacci," If only the maybe Pagliacci would have been a lot happie Cornedy Central's influence is much farther reaching than you might think. All the comics themselves are watching us. But have you ever wondered how the

President himself unwinds? Okav. okey. I've heard it said he has a job that occasionally keeps him busy, but what about when he's not? We're pretty sure that he's watching Comedy Central But that's only half the reason for our existence. We're not just a delicrous anesthetic. We'll make you think. We'll make you re-evaluate. And we'll do it all by making you laugh. The geat comic minds of our time perform on our network. and more often than not, it's their opinions that are the hardest hitting. We're what makes the fact that David Duke nearly became Louisiana's governor easier to handic-and we're not afraid to tell you why Launhter-it's what makes the world go round (apart from the physics stuff, but I falled chemistry in high school, and that's a subject you know a great deal more shoul than I).

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BOS GUDDIONE editor in chief & publisher

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COMMUNICATIONS

READERS' WRITES:

The power of positive thought, investing environmentally, and art for health's sake.

Mind Matters

I especially enjoyed your article "Mental Muscle" in the May 1992 Omni. I am living proof that the concepts set forth in this article are valid. Since I was eight years old. I have had disbetes. Doctors said I wouldn't live to see my thirtieth birthday. A quarter of a century later my doctor comments that I am extraordinary, He has not seen someone so steadfastly normal while in such an abnormal physical environment. My response. It's mind over matter I'm too stubborn to give in. Maybe my stubbornness has contributed to my longevity. It seems to have worked very well for me

Kety A. Courtney Floin II

Psychic Lunch

I am a professional psychic with ten years' experience. I was delighted to read "Portrait of a Prophet" in the April 1992 issue. It's the first article I've. read about the intuitive process written in a nonspiritual context. Besides beng able to predict future events, sensitive people are sometimes able to react to an event long before it happens For instance, I once developed a sudden interest in Caribbean culture and cuisine about four months before I actually met and had a relationship with a West Indian woman. I believe psychic abilities are biological and offer clues to the mental possibilities inherent in our consciousness

James Bennings Mouy York MY

The Greening of Dad Linda Marsa's column in your May is-

sue was brought to my attention by my daughter. An avid environmentalist, she often mails me clippings that spell only gloom and doorn for the world. I, too. get upset with each headline on global warming, toxins in our oceans, and chemicals sprayed on everything we eat. Now, at last, my daughter has found a way I can help. Your article has caused me to rethink my financial portfolio and invest in companies that refuse to pollute. This is a clipping I shall save and talk to my friends about. I thank Orno for publishing such an environmentally aware article that sounds practical, sane, and very doable for a lot of us.

Charles W. Hoffman Huntington, NY

Artist, Heal Tryself

Thank you for the insightful column (Arts. May 1992) regarding artist Kim. Howes Zabbia and her frustration in dealing with her mother's battle with Alzheimer's disease. I have watched my beautiful, vibrant mother deteriorate to the point of not recognizing her loved ones. I commend the artist for her process of self-healing through art, and I think Ms. Zabbia is an inspiration to all of us who are faced with this mind-

ravaging monster. Mary Sue LaBonte

Dumoin' Donuts As someone who's battled fat for my

whole iffe, I was extremely relieved to read the May 1992 Interview with Sarah Leihowitz, When I was a teenager, I often ate two dozen donuts at once without stopping. Now, after reading the insightful interview, I actually understand why I did that I can only hope Dr. Leibowitz and her colleagues continue their work. It's important for those of us with huge appetites to understand our cravings and learn to control them through brain chemistry.

Pateie Boice

Covington, KY Never-Ending Story

As I've come to expect, your May 1992 issue was excellent. I especially enloyed the fiction. What a great idea! Each of the four writers had a totally different approach, which was very thought provoking. I would like to have known more about what happened in each story. Maybe I'll just have to wait for an upcoming issue. .

Balph K. Dawson Grand Rapids, MI DO

FUNDS

BIOTECH: Cashing in on disease By Linda Marsa

ellow science nerds, got ready to wreak deficiously sweet reverige or all
those snooty financial wizards
who made buckets and buckets
of money in the 1980s. For the
1990s, the magic word on Wall
Sireet is __botochrokopy
The past discards astornshing

These stocks could pleament on one of could pleament on one of combinant DNA technology, have spawned a new class of drugs that harnoss the class of the class of drugs that harnoss the class of th



to win FDA
approval, says one
analyst. The
industry is still
in its intancy
so shake-outs are
inevitable.

or 20 are wending their way through the long and striped process, and dozens may be proved process, and dozens more are in the pipeline. Experts say these gene-spliced wonder drugs will revolutionize medicine—and correctly picking which once pass regulatory muster could radically after your fleetly clust ask the investors who shelled out \$3,000 for shares in America on January and states.

1965—their stock had shot up to a staggering \$227,633 as of June 1, 1992.
"Up until now, drugs piscated desease," says Arthur Pancoe, a sanior managing director of Bear, Steams in Chicago. "Bit these now drugs offer the first real hope of an actual cure for a host of debilitating lifs." A mathematican-turned stocktroker, Pancee combe clinical journals and attends symposiums prospecting for the next breakthrough drugs. His work has paid off; His own portfolip, which is invested most-vir biotech firms, has ballconed

25-fold since 1982 To handicap a biotech's potential performance, analysts and experts like Panope sysbali the company's prospects and check out three key areas: the track record of its management team, what products it already has on the market that are generating revenue, and what's in the pipeline with roal commercial possibilities "If you do your homework and are selective," says Stuart Z. Levine, vice president of research for the brokerage from Gruntal & Company, "It is possible to identity potential winners." On the immediate borizon, from

cial analysts predict the hotest are as will be in vaccinst for hepaess will be in vaccinst for hepatitis B, AIDS, and malaris, and in genetically engineered compounds that stimulate or mine the body's natural defenses in the more destant future, says Parisdrugs or other methods of tindening with out DNA that will remay with out DNA that will remay with in cures for cancer and many inherback diseases."

herford diviseases: Among Neprocos current publica Among Neprocos current publica are Carlet-Wallaco, Alloon, and in the control of before the control of before the control of the control

Levine likes Cambridge Biotoch, which mer useruse diagnostic testing systems for riscolous diseases and cancer. The company's also deseloping vaccine boosters and has a joint arrangement with Memoral Soan Hottler ing in New York, City to termilate the York City to the York serving position is (I) a New New Serving position is (II) a trade name, I) Lipsconnes are microscoptic aphress or seat that can be

used as a more effective drug

delivery system Tony Sutton, an analyst specializing in hiotechnology for Fidelity Investments, is very bullish on Immune Response Corporation. which was founded by polio-vaccine pioneer Jonas Salk and is leading the pack in the quest for an effective AIDS therapeutic vaccine. He also likes Sometonen. which is developing a genetically connegred blood substitute to replace plasma, and Synergen, which is in the third phase of tests of Antril, an IL 1-ra receptor antagonist designed to combat

septile shock. But deepte the spectacular performance in this seamingly receision-pool sector of the economy—consumers may out back on purchases of VCRs, but they call take she'r medication—coper's do sound a cautionary note added from the linst-generation biotochs. like Generatoch and Ampain, most of these outifits are small start-uss, so their stock's prices.

Consequently, these investments require patience and a high tolerance for risk, but the long-term prospects are incredity bright. "The whole blotten group is where computers were tonly years ago" says Fidally's Sutton "These sciences are designing drugs that are going to keep our grand-ces alive. 20

can be volatile.

POLITICAL SCIENCE

GARBAGE IN, GARBAGE OUT: Who's getting the monopoly on infopollution? By Tom Dworetzky

hen I was a boy, my syre on the last from the yearyear-old sistor and year-old sistor and year-old sistor and about the way it was when he was a boy. "You could get on the trolley in New Pochelle and, for a nickel, ride all the way to New york City—heck, all the way across the country if you didn't mid making all those transfers."

mind making all those transfers."
Trolleys were electric transception uning, as environmentally sound (or sounder than) buses Years later. I find out that the disappearance—destruction—of the country's trolley systems was the result not of free-market forces and consumer preference, but of a callox, mo-

do today takes innopolistic deal to crush the formation—TV. trolleys nationwide To cable moderns favmake their deal secure, the es, phones, and industrialists paved over trol-PCs Try doing busiley rails from coast to ness or even coast. Now the land's ving a life withcarved up with highways. out moving data. and trolley cars, if you can find one at all, exist only in

As we head into the Information Age, we'll soon find ourselves in a parallel situation. Two great technolocies now bettle it out for the transport of information: telephone and cable companies. Recently, matters came to a head when the Baby Bells started a push to change their original deregulation mandate and offer information services Newspaper companies across the continent swelled with indignation.

Turns out most cable in the United States is owned by modia elephants such as Time Warner. Write busy on the one hand reporting on the evil phone compsnies' attempts to crush newspapers and other information organizations with monopolistic muscle, these media companies with their other hand have been showed to be a shown of the short of the short

in fact, 30 cable companies a have reportedly obtained federal licenses to construct wireless y phone networks that will employ cable wiring and cellular phone as an alternative to the standard phone company.

Back when the country was

Back when the country was now and the frontier's bounty stretched forever, rails and roads competed for profits from the transport of grain, steel, cattle, and oil—the fruits of the blos-

so to, and oil—the frum of the blos-

soming industrial revolution.
That was, or seemed to be, good: It brought a surge of development and wealth that fed, housed, and clothed us all. Unfortunately a century later we

find the frontier despoiled and spent, plundered by the greatly and reduced to the present economic and environmental morass. As we enter the Information Age, let's look at the war shaping up "between" cable/newspaper and phone giants. Are their interests ours? Are they really concerned about our information needs? Or are they just colluding to provide us with a Hobbesian choice between two lesser cv/s?-between one overpriced, moderately bad system and another Just because they own the patents, do they have the power to carve up the future between them and squeeze out any new-

er, fairer, cheaper, moreuseful technologies that might actually serve us all and make for a better information landscape? Think I'm kidding? Look at your phone bill: look at your cable bill. Then ask yourself If they all start delivering information, as in the electronic workplace, won't the bills run hundreds of dollars,a month, and won't we have to pay them? And won't that be a sort of hidden tax, the price of entry to becoming a worker in the Information Age?

The resolution won't be the flurry of proposed legislation in DC to block, free, or regulate the move of data carriers into the information business. I don't larow what the answer is. But I do know that if you listen really quietly, you can hear the metallic whisper of knife edge on sharpening.

stone as foday's lat cats, like the robber barons of old, get ready to carve up cyberspace—and your future. Remember: Those who do not learn from the past are forced to re-send it DQ.

14 OMNI

Everything we

MIND

THE MIRTHFUL BRAIN: Where the belly laugh begins By Joan Griffiths

ave you over felte stressed out? That felte and joy are long lost oossins? In quest despensation up lan an escape—a night with your VCR watching studied considers. You are consumed by bit-by laughs The grain larges in the morning your bounce is back and it and of creative energy occur fee-by again. Was the merely an approximation of the construction of the constru

physiology improve? Anecdotal evidence always claimed laughter had positive healing effects. Now invesfigation into the physiology of mirth is gathering momentum. Among the growing numbers of international researchers, two American colleagues have focused exclusively on the subtle realm of brain activity and its corollary, hormonal changes.

normonal changes. In the 1980s, psychologist Peter Derks studied humor appreciation in stroke victims. He pinpointed how they differed in their preference for joke makent, depending on the location and amount of demage to the cortex, Generally, lactors in the right hemisphere.

the right hemisphere caused the patients to accept any non-sequitur as the joke. Damage in the left hemisphere showed in the person's seriousness or inabifity to recognize any humor.

At the Cotlege of Witfiam and Mary in Williamsburg, Virginia, Derks and cotleagues now measure neuroelectrical activity during laughter. Humor is characterized by two phases. The loke is set up; punch line is delivered. Privaiologically, mirth begins with brain anousal Similar to the way brain activity heighters in ambopation as a specific problem is set forth and peaks at the recognition of the solution, so, too, does it in the process of a joke A subject was brokker in a via

A subject was hooked up via 21 electrodes to an EEG topographical brain mapper. As the subject heard the joke setup line, the cortex's left hemisphere began its analytical function of processing words. Shortly, the primary activity shifted to the frontal lobe, an area associated with emotionaltv. One hundred twenty milliseconds later, still well before the punch line, the right homisphere's synthesis capabilities joined with the left's processing to find the pattern-to "get the toke." But before enough time passed for a goode to escape the subject's lips, the heightened activity spread to the occipital area associated with sensory processing. It joined the chorus of increased fluctuations in delta waves. Finally, in a crescendo of activity, a "surprise" wave crested as the brain "got" the loke. and the external expression-

the laugh-began The surprise for Derics was finding that brain activity happens not sequentially, but in concert, and the effects linger "What humor is doing," he says, "is getting the brain into unison so it can be more efficient in trying to find explanations for-In this case-the punch line. Laughter may enhance both immediate situation awareness and also have longterm therapeutic effects. "But." he notes writy. "with the increase of delta correlating with not paying attention, it could also mean laughter might distract airline pliots or surgeons. So does delta prepare you to come back into the enuronment more alert, or does it disconnect you and leave you banding? I think it sharpens the mind.

refreshes it. But we don't know that yet

"I's much easier to see a diposition in the seem of the seem of

At Loma Linda University School of Medicine and School of Public Health, in Loma Linda, California, psychoneuroimmunologisi Berk and his coworkers measure neurochemical changes from laughter. A group of medical students watch a virien of a comedian. After viewing, their levels of the neurotransmitter eninephrine and the stress hormone cortiso are decreased. Lower epinephrine levels can reduce high blood pressure and help relieve other cardiovascular problems. Lower cortisol levels allow the immune system to produce greater numbers of beneficial white blood cells and help if function

Bark observed a curious difference between his control group and the subjects who planned to watch the comedy video. At the commencement of the experiment, the test group's epinephrine levels were already lower then the control's. He reafized he was seeing positive stress-the physical phenomenon of an "anticipatory response." Just as warting for a dentist's appointment can be stressful, looking forward to dinner with a favorite friend can translate to a healthier hormonal response. So, as the twenty-first century looms, it would be sweet if health science proved it was time to send in the clowns DO



During the teiling of a joke, release of brain activity and relaxation toiliow the punch line.

STYLE

SOLE SEARCHING: Nike retreads lightly on the planet By David Arneke

nifed States manufacturers sold some 388 million nairs of athletic shoes last year. The beauty of that dizzving number varies creatly from beholder to beholder. Runners see lots of miles run. Retailers see \$12.1 billion.

And environmentalists see 776 million shoes heading straight for landfills (and those are just last year's shoos).

It's not an environmental blight on the scale of, say, tires or junked cars. Shoes don't pile up or desecrate the landscape any worse than a thousand other nonbiodecradable products

These days, they're just another out-of-control example of why the United States is running out of landfill space. But tomorrow. they might represent a step toward one of recycling's biggest coels-consumer products that can be recycled into themselves, into their own next generation. Most of what consumers recy-

cle is packaging-bottles, cans. plastic containers, cardboard, Recycling high-volume consumer products, especially those with as high a synthetic content as athletic shoes, represents a breakthrough that could significantly alter the resources-into-productsinto-waste cycle.

"Maybe at some point way in the future we'll have a system where shoes can be 100-percent. recycled, where you never throw a pair away. You always take them back like bottles or other

common recyclables " says Dusty Kidd of industry clant Nike The key to turning today's shoes into tomorrow's fies in a technology developed by Nike The process grinds and pulveriz-

es whole shoes into material for the outsoles of new shoes. Nike's process can completely recycle every shoe the company makes except for cleated models. The machinery to draw met-

al out of the rubber and fiber isn't here yet, but the technology is The first Nikes to contain recycled material will arrive in stores next spring. The shoe will be a new version of one of the company's best sellers, the Air Escape Low, a mid-priced outdoor crosstrainer for men and women.

"We're starting to build the idea of a totally recyclable system

of production," Kidd says. The Irratation: The recycled material can be used only in the soles of new shops. And only about 20 percent of the new outsole can be recycled material. A potential future limitation lies in whether the speckled look of the recycled material will be as marketable in, say, basketball shoes as it might be in outdoor crosstrainers. So it's not quite a one-toone ratio of old shops into new

But it's a start and one that no other consumer product manufacturer has come up with And, besides, just getting the soles right with up to 20-per-

cent recycled me-

terial was no small feat.

There are four performance parameters for athletic-shoe outsoles durability, tear resistance. tensile strength, and specific gravity. A Nike outsole with up to 20percent recycled material performed as well as, and in some cases outperformed, regular outsoles in laboratory tests

Nike has put the recycled material into prototype versions of its outdoor cross-training shoe. Weertesting by runners, hikers, and mountain rangers confirmed the lab results. Kidd says, "When you've got to ride on a mountain bike or run or hike, you need real performance. So the real key here was to develop the chemistry for the outsole that had the right technical features. Without that this really wouldn't have much validity."

And the socially conscious aspect of the technology, which Nike takes no small pride in wouldn't have much validity if it only served as (yet another) promotional tool for the biggest and most profitable company in the sports and fitness industry. The company's answer on that point is to declare its process open technology "Once our patent application is accepted, we'll make that technology available to any other shoe company in the world that wants it." Kidd said.

The reasons the company gives for pouring a considerable investment into the project are a combination of corporate responsibility and the original nature of the company, a passion for the environment that marks not only Nike's home state of Oregon, but also the company's founders and first customers-runners

"Tie in between running and environmentalism is real strong because if you're a runner, you're in touch with your environment al the time," says Kidd DO







ARTS

SPARKS OF CREATIVITY:

Painting with electricity is risky business, but the results can be illuminating By Judith Bell

her most of us think of stariness steel, we enuse the star of the steel of the star of payments. After the protection of ent. For him, the metal concess has as rich and water das those of an abstone shell. Using faction, heat, and electricity. He fees and interiorities the colors in worth to the steel of the star of the the star of the star

alion worlds.

Duritz was a parring and phopgraphy student at the San Francisco Art Institute when he became fasconsted with the qualified that the same fasconsted with the same fasconsted with the same fasconsted that the same fasconsted in the same fasconsted with the qualified in the same fasconsted with the quali



deat with the tuminous quality of tight as an insub-

found an old refrigerator with rusty metal that resembled the terrain of another world."

The discovery led to he Krosber series, abstract photographs of cut and rusted matel gleened from sculptors' scrap pries at the Krosber Arts and Anthropology Building on the University of California at Berkeley campour Dunitz first jurtaposed pieces of oxided end parted steel of differing textures and huse. Photographing the results, he created imme the results.

ages in which the colors evoke for example, the seething surface of the sun

The brilliant hase in the ownheated steel fasoniated Duntz, who began contemplating how he might point whole surfaces with the indescent palette. Soon he was buying new sheets of stanless steel and using a torch gan to heat the metal plate and a motal grander to create texture. The result Placific Light a series of jewd-likes images with unearthy colors and tash textures.

Although the coises change according to the degree of heat gapilled to the metal, stainless steel has its limitations: "After a lew weeks, the colors begin to shift and face clint before the puece is completed." he says. He's tourd, however, that titlenum and neckum react better to the heating process. He has also absotracity, which gives tim not only greater control, but also cher coloss. (Painting with electricity, of course, can be dangerous and course, can be dangerous and

shouldn't be fried at home it To "paint" the metal. Durity solders electrical wiring to an ordinary painthrush femile, which he coats with plastic for insulation To further protect himself from electric shock, he wears running shoes and latex gloves and stands on a foam pad. With the brush connected to a DC converter and a voltage regulator, and a second wire attached to the metall plate, he dins the brush in a solution of water and baking soda. which acts as an electrical conductor, "At times. I have more too far-fike laving down a high-voltare color that destroys the magic of the composition," he says. "And there's no turning back, Mistakes can't be corrected

Once he's created the multicotored surface, he takes a series of Polaroid test shots, adjusting the

lighting to achieve the desired effect. During this stage, which often lasts for weeks, he carefully controls the lighting, using as many as 30 lights in intricate combinations and angles Removing the shade from a draffing lamp. for example, he replaces the standand light bulb with a tungsten halogen bulb. As Dunitz progresses he may weigh down the lamp's flexible arm with a roll of adhesive tape or a pair of pliers to slightly alter the angle of the light " could never re-create one of these pieces," he says. "Move one light an inch or two and the whole feeling is gone. It's only per-

manent on film."
Eventually, Dunitz may end up a photographing only a three-square-inch area of a metal splate. However, a finished piece can be as large as 48 x 64 inches. "Something else happens when they're bigger," he says. "With the smaller work, you look at it. When it's bigger, you fall in-

Light of course, is the basis of photography in Dunitz's work nowers. The process and the subject become one and the same "As I get more into this process," The becoming enterested in its potential. But don't know where I'm going with the I never know what the next pioce will be or even what the to do until after I start it. If I know that I'd be way shed of mere with the I want to do until after I start it. I'll know that I'd be way shed of mere when I want to do until after I start it. I'll know!

Weeks from the Pacific Light and the Knobber series are the subject of his book Pacific Light released by Beyond Words Fresheld Light Responsed to Beyond Words have been series and the Ansel Adams Gallery. You semite National Park, will exhibit Dunitz's most recent work in the Pacific Light series, and the Halfa Museum of Modern Art in Halfa Light series, and the Halfa Museum of Modern Art in Halfa Light series, and the Winter of 1993 DO.

ELECTRONIC UNIVERSE

WAR GAMES

Experience the thrill of battle, minus the bloodshed

By Gregg Keizer

maginary battles come in boxes that sport silhquettes of hightech Pentsoon hardware, portraits of grim-faced commandos. or flashy scenes of death and destruction. These silicon war toys cost a lot less than the cheapest Department of Defense feasibility study. but they offer a view of con-

flict that's clearer than anything on paper. Their genesis is in cardboard-counter and colored-

map war games where you roll dice at God's crap table to determine if armine his or dis But comnuterized combat makes the machine do all the sout work so you can concentrate on strategy and factics.

games in years, Patton Strikes Back (Broderbund Software: IBM PC and Macintosh) is a re-creation of World War II's Battle of the Bulge Hitler's last-gasp offense through the Ardennes forests-What sets Patton apart from runof-the-mill military simulations is its interface. Like the real Amencan or German generals (you play either side in a man-againstmachine contest), you simply direct your divisions to their objec-

tives and tell them to attack or defend. No numbers to crunch, no details to lose in the big picture. Click on a unit and its statistics appear on the screen Drag it through its marching orders with

the mouse. Direct it to attack or One of the best-designed war

defend. Pettor lets you take the easy route to battle management When you play from the German perspective, you rush pagger and

infantry divisions through holes blasted in the American lines. grabbing as much ground as you can before the weather breaks pears. As the American commander you by to bold on until reinforce ments arrive. Patton Stokes Back is a freak-

a war game that's complicated enough to satisfy long-time players and simple enough to entice becinners who haven't had the heart to tackle computer combat. It's a welcome break from the mammoth games that tested your patience, not your mettle Another sample of silicon war-

fare, Secret Weapons of the Luftwaffe (Lucastim Games: IBM PC) is half truth, half strange fiction. Set in the skies over Europe. you pilot American and German aircraft in Ditched battles that match up piston planes like the P-51 Mustang and the B-17 Fly ing Fortress against futuristic istand rocket-propelled interceptors

Though Secret Weepons includes long-playing campaions where individual missions determine the historical outcome, this is primarily a flight simulation with lots of window dressing. You

fly an airplane, try to shoot down the enemy and hope you don't end up in a flaming wreck You'll get the hang of flight fast, but hitting an opnonent is no easy task

It's Secret Weapons' what-if possibilities that make it so intriguing. With several add-on disks now available, you can pit the P-80 Shooting Star, Amenca's first jet fighter, against

German planes like the Mo.262. Or take your changes in the literally disposable He-162 Volkeianer jet finhter, a German plane designed to sweep the Allies from the skies

The computer makes believe in periods other than WWII, of course L'Empereur (Koer; IBM PC and Mintendo) details the rise and fall of Napoleon in a grand strategy game. No Greater Glanz (SSI_IBM PC_Macintosh and Amiga) duplicates the American Civil War with an emphasis on politics and generalship, and Red Baron (Dynamix, IBM PC, Macintosh, and Amiga) puls you

in a WWI-era biplane. You can even play out the future of warfare with science-fiction cames like Bules of Focage ment (Mindcraft: IBM PC) and replay the recent past with the thinly disguised Desert Strike (Electronic Arts: Sega Genesis), a Gulf War knock-off

All of these battles in a box share one common elementthey let you become a militaristic adventurer from the civilian comfort of home. The worst that can happen a hard disk drive crash Thank goodness DO

such as Path Strikes Back or Secret Weapons Luffwaffe recreate the plary of Infamous battles and test your warrior wits.





EVERYBODY'S A COMEDIAN:

These days, everybody needs to be. Plus a hearing aid only your dentist knows about, and why night workers should avoid donuts

Being a comedian in the 1990s is a daunting prospect. Crumbling economies, spreling unemployment, rampant homelessness, crime and disease, unabated starvation and warfare, and an environment that's careening into toxic overload. Take my planet please. Life seems a lot less funny

lake my planet, pioses. Llo seems a lot kees fummy han it used to, yet there are many more correctains working may be seemed as a lot keep more seemed as a lot keep seemed as a lot keep your loca. As writers and performers, we happen to believe there is now because there's just more one pio dock.

So who are all those furny people and what are hey doing for us? The majority of stand-ups fodey practice "Didyou-ever-notice" observational humor. Men don't want to commit, women always go to the bathroom toogleher Where do my socks go when I put them in

the drye? There's a rugo appeal in this bocause everyone can relate to the identification that paper to us at the mercy of bank machines, express checkcust, and our mothers. Hatrod utrus up a lot in connectly, one Sometimes it's settre, sometimes it's just plain oid artimotely, the your signal or your spouse, for your spouse's mother, for anyone who to your spouse, for your spouse's mother, for anyone who tacted out there have done in the proper set of tacted out there have done in the proper set of tacted out there have done in the proper set of tacted out there have done in the proper set of tacted out there have done in the proper set of tacted out there have done in the proper set of tacted out there have done in the proper set of tacted out there have a set of the proper set of

It's been said that each generation gets the art that it on serves. Does that mean that all were loft with is chuckles that evepores after the punch line or routines that encourage us to this compone also with a basestal bad? We don't that so 'there's a growing number of comedans who craft their humor around complicated issues, problems that we all must think about and act upon norder to surver. They are-

"Safe Sex" sketch banned in Bay Hoad.

gulpt—socially responsible comtos. Liy florith rais been a charmplon of compassion and hope for years, Bob Goldfitwall uses stand-up to tell us that if it to get our acts together and do it fast, and Whoogle Goldberg's character monologues always deliver a healthy dose of rawreativ with the lauchs.

We are a duo. We write and perform character sketches about things that people don't always laugh at homelessness, racism, our messed-up planet. A while back, we performed our "Safe Sex" sketch in a nightclub In Bay Head, New Jersey, In it. we play fifth-graders presenting a show-and-tell project, complete with a large (and we mean large) cucumber and enough condoms to keep the cast of Beverly Hills 90210 out of trouble for a month. Despite the fact that we were trying to say. "Look at the world in which our kirts are growing up." the Bay Head townfolks tinned, and quicker than you can say "Lenny Bruce," we were closed down and

deemed obscene. Which only lod us that there are a lot of more people out there who need to see what we do. Because, why just make people laugh when you can make them laugh and think? Comedy can change consociousness and consciousness can change the world.

Our childred life is falling apart. Comedy with a conscience.

can be a part of making everyone realize that we have to put it back together. The fact is, jokes have staying power—humais like to remember them, if we duth, we'd go around reacting tenth-grade goometry to each other. That's why we hope laughter can be used to bester this world. Plus, It's a holl of a lot more fun than the Pythagorean theorem.

Ted Baus and Debora Troché perform at theaters and nightclubs on the east coast. When in New York, they can be found at the clubs Elphty Eight's and Con't Tel Marria, or at their homes having a donut and a nap.



CONTINUUM

17'S YHAY YUMF OF THE YEAR

Good news for women tired of hearing about how their monthly hormonal cycle. makes them unsuitable for various tasks and responsibilities: Men have a hormonal cycle, too. Theirs is yearly but it still affects their intellectual abilities and skills. Past research has shown

that testosterone levels peak in the fall and drop in spring. And in a recent experiment by psychologist Doreen Kimura of Canada's University of Western Ontario in London, men performed better on standardized tests during the spring than during the fall. Kimura had previously documented variations in certain intellectual skills in women as hormones fluctuated through the menstrual

cycle. "The present study is the first demonstration of similar variations in men." she says. She adds that her findings may be significant for "men in spatially demanding and high-risk occupations—for example. aviators."

Could this mean that fall's testosterone surge makes men more aggressive and dangerous? Might it make them more pensive and calm come the spring lul? "It is an interesting possibility," Kimura acknowledges Anne Fausto-Sterling of

Brown University's division of biology and medicine, however, feels that more research is needed to prove that testosterone surges cause violent behavior. "There is a very complicated interrelationship between the body and behavior, and

testosterone isn't necessarily the driver" If Kimura's research is correct, people who want to bar women from positions of power

> nal flux may have to reconsider their arguments, because "equally large fluctrations occur in men, albeit over longer periods of time."

due to hormo-

- fim C/Brien lere it comes, quivs surge in festosierone.



Open wide. A dentist has invented a hearing aid for your mouth.

HEARING VOICES IN YOUR MOUTH

If you cover your ears to vibrations that travel while speaking, you can still through the wearer's skull to hear your own voice because the inner ear your teeth and skull pick up acoustic vibrations and to achieve what we believe is conduct sound to your a superior level of hearing, auditory nerves. Noting that says the dentist, whose work oddity, a Bethesda, Mary receives funding from the land, dentist has devised a

University of Maryland, "The hearing aid that hides away bottom line is how comfortinside a tooth able all this will be The unusual device could Mersky declines to estibenefit people unable to use normal hearing aids, according to inventor Barry Mersky Conventional ear-mounted hearing aids rely on tiny bones and joints in the ear that can be irreparably damaged by recurrent infec-

we an FM radio signal to a

denture containing an anten-

dental retainer or partial

na kon and amplifier A

ENOUGH IRON tions or the normal bone displacement that occurs ONE-INCH NAIL with ace. By contrast. Mersky's creation uses a tiny microphone, concealed in a shirt packet or how tie, to pick up sound and transmit it

mate the cost of the gadgetry, although at present the point is most Conducting further tests and gaining the approval of the Federal Drug Administration will take at least another

THE HUMAN BODY CONTAINS ENOUGH FAT TO MAKE SEVEN BARS OF SOAP AND TO MAKE A SINGLE

on the inside edge of a tooth

functions like a transducer,

converting the radio signals

"We're using natural tooth



IT'S IN YOUR BRAIN, NOT IN YOUR HAND

The common but disabling condition known as writer's cramp-in which the hand seizes up after gripping a pen or pencil. leaving the fingers temporatily locked in a clanched position-was once considered a psychiatric problem. They used to say, 'It's all in your head." explains neurologist Lee Tempel of Washington University in St.

say that, but now we mean it's a neumionical problem that starts in the brain, not in the hand." Using postron-emission tomography, also known as a PFT scan, Tempel and his colleague Joel Perlmutter examined six nationts suffering from writer's gramp While previous studies have indicated that

Louis, Missoun, "We still

writer's cramp does not stern from a structural Tempel and Perlmutter found evidence of abnormal functioning in the brain's sensorimotor cortex and the supplementary motor area The PET scans revealed

that in subjects with writer's cramp, shrulating the hand in a manner similar to writing produces half the response in these two brain. areas, measured by blood flow, then it does in subjects without writer's cramp. More surprising is the fact that this diminished response shows up in both hemispheres of the brain. not just the side that regulates the affected hand. This may explain why some people who switch hands to avoid writer's cramp later develop the

affection in the other hand.

as well.-Stove Nadis

STRESSEUL SCREENS

Work tends to create stress. Now two communications researchers have discovered that the equipment modern office workers use can actually increase that stress According to Caroline Dow and Douglas Covert of

the University of Evansville in Indiana, the 16-kilohertz pure tone produced by some computer monitors as background noise is the culprit. In one study. Dow and Covert found that women who used noisy monitors quickly showed signs of stress and inefficiency in their work. In another experiment, two groups of female students took part of the Graduate Record Exam, a standardized test for graduate school advanced monitors, with



Noisy monitors stress women out

headaches, while others' blood pressure will jump, and still others will expenence muscle tension, irritability, or

combativeness Most monitors can cause stress problems, but more



Dear Diary. Lonce again take pen in hand to-ough! THE LIFE SPAN OF A TASTE BUD IS 10 DAYS.

> admission. The group exposed to the 16-kilohertz tone scored much lower The women at the high-estrogen points of their menstrual cycles scored the worst. Women tend to hear than men to begin with. Dow explains, and when their estrogen is high, they hear even more acutely. So this "tends to make it a young

THE GIANT SQUID'S EYE IS THE LARGEST OF

ANY ANIMAL'S EXCEEDING 15 INCHES IN DIAMETER.

women's problem "she says. People react to stress in different ways. Dow adds, so some exposed to the 16-kilohertz tone may get

screens that are frequently

breathe for a time."

refreshed, are less likely to produce the tone White the researchers haven't found a simple. nexpensive way to test monitors. Dow recommends "working on a monitor for 30 minutes to see if you become

mitable before busing it." -Paul McCarthy "Theories are Ilke withered leaves, which drop off after having enabled the organism of science to

-Emst Mach

SEEDS OF GLASS

When drought starves vegetation of moisture, many plants simply dry up and die But the seeds of sovbeans and the vegetative parts of some desert plants manage to survive even the driest of seasons. How? A trip of scientists from Cornell Univer sity has come up with a possible answer. They turn to liquid glass

Carl Leopold and Fabio Bruni examined the interiors of a variety of soods using a sophisticated technology known as electron spin



Oh, dry up: Evan the dreaded drought can't kill some hardy plants.

of seeds that die dunna drought turned solid but that the contents of soybean cells | Leopold and Bruni's The

resonance. They discovered liquid glass. The key fies in that the contents of the cells I the differing mix of sugars in the two types of seeds, found Karen Koster, a colleague of changed to a sort of thick, sugars in the hardier plants

form the glassy state that in effect holds the seeds in suspended animation Leopold wants to intro-

duce the glass-forming sugars into crop seeds to see if the seeds last longer in storage. Beyond that, he thinks the vulnerable seeds of many tropical plants might be "tricked" by molecular biological techniques into forming protective sugars. which "might help endangered tropical species to

"I have wasted my hours." -Leonardo da Vinci

L'VE GOT YOU JNDER MY SKIN

Fed up with the fancy acne creams concocted by huge pharmaceutical firms? Soon you'll be able to try an unusual alternative medications devised by a drilling-

Frustrated by the ineffectiveness of cold-sore creams. Patrick Beauchamp decided I fon, Initially amused by the to use oil-well logic to tackle his dilemma. "I realized the bexast problem was that unable to penetrate into the skin" he savs.

Heinn a solvent base Beauchamp brewed up the first batch of cold-sore gel in his hotel room and then tried it on himself and some friends. Surprised at how quickly it worked. Reauchamp approached J. A Ropers, a professor of pharmacy at the University of

Alberta in Edmonton and an expert in liquid-drug formedee. Booers soon realized be formula's viability and offered to perfect it Beauchamn and Boners's first product, an acne treatment called Acsorex.

approval in the United States, According to three independent clinical tests Acsorex is 62 percent more effective than leading acne products. A cold-sore medication currently undergoing double-blind tests in Canada looks equally effective and should be available by 1993.

recently gained regulatory

over-the-counter sales, and

Federal Drug Administration

Beauchamp has applied for

approval in Canada for

-George Schmidt

If the Olympic torch can travel thousands of miles, why won't your pilot light stay lit?



draft taste is Dry Brewed to drink light, yet satisfy completely. For refreshment that's beyond question.

Proud Soonser 1992 U.S. Olympic Team Please drink responsible

CONTINUUM



Why did Halley's Comet-recently shine so brightly?

HALLEY'S HICCUP

Our most celebrated comet has burst into the Imeliaht again Between the orbits of Saturn and Uranus and nearly 1.3 billion miles from the sun. Halley's Comet's come, or highly reflective envelope of dust, had nearly vanished But on February 12 of last year, the comet suddenly shone radiantly-at least 300 times more brightly

Most comets display a coma starting about 460 million miles from the sun. but little warmth reaches into the solar system, so the come disappears. "The comet community has long held that [outer solar system) comets can crack, letting gas escape—but they have never said how," says Murray Dryer, senior scientist at Space Environment Labs in Boulder Colorado, Dryer and Devrie Intriligator, director of the Space Plasma Laboratory at Carmel Research Center in Cattornia, theoenergetic solar flares broke open Halley's crust and allowed dust to escape British astronomer David Hughes of the University of Sheffield disagrees. He thinks that a smaller comet 60 meters across slammed. into the comet's nucleus. shooting dust and debris into space Karen J Meach

rize that shock waves from

of the University of Hawaii has yet another theory. She believes that part of the comet vaporized as it rounded the sun. A weak point in the crust released the carbon-monoxide gas pocket, resulting in an asymmetrical coma in the cold reaches of space

The main reason for the

lack of consensus is our lack at knowledge. Although we eagerly watch Halley as it makes its ten around the sun every 78 years, we know little about how other comets react as they gull outside our view and into the depths of the solar system -Patricia Barnes-Svarney

EART-DISEASE

Working the mate shift is not only quiet and lonely, it's also hazardous to your health. Scientists have proven that people who work the right shift have a greater incidence of heart disease then those who work during the day. One medical team has uncovered a possible explanation. Less exposure to daylight elevates choles-

> DURING HIS HEFTIME. THE AVERAGE MALE EATS 50 TONS OF FOOD

IN THE U.S., FATAL ACCIDENTS PEAK DUR-ING AUGUST AND DECLINE AS FALL SETS IN

teral in the bloodstream, and as arwone who hasn't been living under a rock knows, a high level of cholesterol accelerates the clooging of

artorios Physician Losfie Klovay at the LLS. Department of Agriculture and psychologist Edward Halas at the University of North Dakota subjected rats to light and dark cycles that matched the three common work shifts-8 am to 4 p.m., 4 p.m to midnight, and midnight to 8 a.m. The rats "working" the second and third shifts had cholesterol levels 24 percent

higher than those who

scampered around during

the day. Klevay doesn't yet

know why less exposure to daylight raised cholesterol levels but suspects if involves the disruption in

natural circadian rhythms caused by the shift-work schedules, a phenomenon proven to exist in humans in independent studies. Can shift workers do anything to force their cholesterol levels down? Ex

more copper, Klevay suggests. Doctors estimate that most Americans don't eat enough copper, and according to Klevay, a low intake of copper is the only nutritional deficiency shown to increase cholesterol. Indeed, the cholesterol levels of rats that both worked the night shift and ingested less copper than their coworkers shot up

even higher Night nurses, auto assemblers, disc lockeys, and others who make their money in the dark needn't chew on a pipe to raise their copper



Maht caps need more copper

intake. They can simply eat more liver, beans, nuts, and for dessert, dark chocolate

-Mark Erschetts

Mama mial. It's a scene of onematic: grandeur, compliments of Joseph E. Levine. Queen Omphala, your Italian facaintile of an ancient Helherself from the well-muscled arms of an ardent Hercales. Evil but dutiful ruler that she is: she must creet

her realm. Cut to the grandiose MST3K, as it's affectionately throne room of Omphala. The sojourners' white-bearded leader is begging Omphala's pardon for their intrusion and for the humble garments they offer as offs. As he mentions the latter, our hot-blooded Queen-as though wishfully mistaking, called by initiates is one of his meaning-hungrily evehalfs his retinue of heroically. torsoed, seafaring study. "Just" then, " las - if to -out- - The show is also a critic's dar-

words in her mouth, some. ling, widely praised as one of offscreen beckler modernalypurrs. "These are gifts? Don't bother wrapping!". Who said that? Some rude dude in a Brooklyn bal-

conv? Some low-rent Gene Siskel in a State Street cineand it did not come from planet Earth! In truth, my friend, that voice belongs to that witty and talanted robot. Tom Servo; from the wondrous TV world of: Mystery Science

The remarkable Mr. Servo.

as it just so strangely happens, has a bubble-gum machine for a head, a plastic root-beer barrel for a body, and all the pretensions to genwhy not? Back on earth, Tom's show is a television phenomenon.

Ah, but what exactly is Myssome unexpected quests in tery Science Theatre 3000, you may ask. Grasshopper?

such filmic buckets-of-bolts

as Herculas Unchained with

the fan devotion, growing

often call "a smash cult hit."

to a little spaceborne vehicle that began traveling with a momentum that was beyond expectation. Its mission? To forge unseen links-among lenic dish, has lust removed it us of Wynton Marsalls. And the sanety maladjusted BEHIND

films-such "garbage-in/garbage-out" epics as The Giant Gila Monster, Daddy-O. Time of the Apes, Slime People, Junale Goddess, and Gemera vs. Baruan? These films are what you might call "underground" classicsthat's underground as in cornse, as in tuber, . . The hapless Joel is played by gifted comedian

and loony inventor Joel

And there is Gypsy, the maternal, "evolved" vacuum cleaner who pliots the ship-the wayward vessel which Joel has wishfully dubbed "the Sateate of Lova."

gay caballeros suffer the cin-

ematic terments imposed on

the evil Cr. Clayton Forrester et is surrounded by cosmic

them by the mad scientists.

low-budget science-fictiontilms (including many starring the Japanesa monster. Gamera, of whom it wassaid. "He took all the nictures Godzilla turned-Trapped in space, with down"). Their absurd high. Gyosy-keeping them safely drama gave Joel and the afleat, our three intergalactic bots plenty of opportunity for ground-level humor, as in this exchange:

The ACM, as he grows in his puddeteer. Kevin size and alternation, commits ncreasingly anti-social acts. In one ludicrous scene, two men try to subdue the ninarmok grant with an Injection from a ten-foot-long hypodermic needle. As the camera focuses on the men and the ciant "fix," Joel remarks, "Oh, looks like they're visiting SCI-FI ACTOR: The plan. Kerth Richards."

Murphy: also a writer and the save. "He's proof positive that a little knowledge is a dangerous thing."

There are many reasons why Mystery Science Theatre 3000 has become a "smash cult hit:" First, the show is very funny. Second. MST3K is not only very fun-When you first watch ny but its agecial quality has

something to do with bandor and truth. You might call it a kind of video vente. These phenomenon.

comments from Mystery Science principals reveal some-Jim Mallon, producer "A ed that the show mirrors the Later on, the films got bet ing stream of jokes and the inumari condition—that, as many pop/pultural guips. As . Joel and the bots are forced to watch these temble mov-

les, we're all sort of forced to

SCIENC and his New-Wave loor, gast CROW, Must be from MST3K, your attention tends

cable TV's most popular programs, seen weekly on the Cornedy Central channel throughout the TV galaxy. looks like a kid who's O.D.'d the funniest and most inven-MST3K offers a perfect tive on the air Each week on on heditime stories. MST3K, Mr Servo and two orpremise for futuristic rebels biting compadres soup up without a cause. Our shy lest- the surprisingly resilient, main-

nest hero; one Joel Robin- taining his peculiar sanity in sen, simply hoped to be an ... two ways. First, he builds their own guirky brand of com- honorable working stiff. But three robot pals (the "bots") ma? No-o-o-o. in fact, the ic hyperdrive Their inspired his eyl-scientist employers at to share his eyile in the outvoice was not even human efforts have brought them. Gizmonics institute con- er reaches. There is Crow, a ceived an arbitrary dislike for probot bird whose temperaattention, and other trap- him-and shot him alone in- ment is mirrored by his pings of what media-nabobs to space!

But, as we shall see, their cruel experiment How the aforementioned Tom Ser-MST3K is also something will a kind, relatively portnel yo, who fancies himself a mulelse, something intangibly. Joe(i) react to forced screen-. titalented "bot-about-town," more. It might be compared ings of our planet's worst, a real Renaissance robot.

Hodoson, who is MST3K's creator and co-executive producér. Hoddson wins us over immediately with his youthful face and sweetly dopey expression—he

What's more, he proves to brassy color and his pair-of-There, he's the subject of cymbals-like torso. There is Frank As they drift through the starry remnants of the Big Bang, our buddles pon-ter." Sort of. At least they proder a seeming infinity spent watching movieland flotsem and letsam-week after week more actors drawn isodeteaturing The Arriagho tive styles. Joel's repartee. from the living dead, more Colossal Man, Iron the sets that couldn't even fool a show's third season; offers Cracker Jack prize-in-every- the essence of the knowing. box inspector. -

So what the our heroes do? Why, they do just what you or I might do. They a solder who mutates into a selze the couch potato's last nonculnary prerogative They start eassing back at the screen -

In its first season, Mystery Science stuck with completey ludicrous, lowest-of-thethe cosmic chili vided more varied and complex challenges for our mflight critics. The MST3K eopreverent, free-form MST3K style (The Amazing Colossal Man tells the tracic story of

grant after being caught in a nuclear blast.). The films' titles mount up in dramatic inverse-pyramid. SMR THE AMAZING COLOS-SAL MAN 'Crow pauses a

yeah, you wish." ... tures into self-penned song- "and other media. Kind of

time coes on though you beain to know the characters and appreciate their distinct take life as it is on this planfor instance, has a pointedness that belies his drowsy appearance Crow's gracks' pect if a crow could apbraise our infloor and put his thoughts into English. The irrepressible bot-bird is, in truth, brought to life by Trace Beautieu, an MST3K writer and set designer. Of Torn Servo-with his touchiness, his proudly cutting cul-

to be absorbed by the rush-

et; we have to watch terrible productions' that we can't control. And the way we survive is through; our freedom. to comment on what's henbening around us and our abtity to find some humor in it " Jef Maynard, toolmaster. "TV is not istening to you.

People are trying to retain themselves despite the constant bombardment. MST is for the audience that doesn't want to be drowned boat, then cracks, "Oh "tutal ibes, and his strong ven-, by the manipulation art of TV



Article By Marion Long





Gypsy/Jim Mallon, Crow/Trace Beauliey, and Tom Servo/Kevin Murphy, Evil scientists: "TV's

Frank" Conniff (opposite page, right) and Begulieu as Dr. Clayton Forrester (center). together in The Amazina Colossal Man (above).





Toolmaster Jef Maynard and some technowizardly "home cooking" (above).

like the 'art' that flooded the tunnels in Chicago a tittle while back you know, that got from thet? That's what TV does to people. I think it erodes their foundations."

Trace Beautiou: "The movies that work hest for our show are ones that straightforwardly proplam. Tos s the best movie you're eyet going to see - though they are clearly not the like Mystery Science is Groupho Marx to the movie's Margaret

Dumont, and the movie just doesn't get it." Kevin Murphy: "Part of our intention is to expose pretension for what it is, to bit a lance at self-seriousness 1 think one of the most unhealthy trends of our culture is that we take ourselves far.

too seriously, and we do it for all the wrong reasons. We can take a lesson from damn near any other suiture and find out that, when it comes down to it. Isughma or breathing.

As you can see in its own unassuming way, MST is doino as part to fulfill the mandate of English poor and critic Matthew Amold, who fell that art should be "a criticism of life." Of course, Mystery exactly the kind of criticism

he had in mind To truly comprehend why MST3K is so successful, howotic Eden Praine, Minnesota where the offices of Best Brains, Inc., are home to Joel, the hots, and the rest

of the MST3K crew. It is there for from the mills of Manhattan and Hollywood, past the fover with its stuffed iguana (a severed noose training from its nock) that the MST slaff does its

work in self-contained, creafive, gracious, and collabcrative style. And it is there that you dis-

cover the most crucial Mystery Science secret of sucdess inside a nondescript. ow brick building, the real Satellite of Love has been carefully constructed; delib-

Yes, who would believe it-a hit show that has hidden from the bright lights, the big city? When Mystery Science was originally envito the Comedy Channel: its creators insisted that the show remain in Minnesota. Here we're not distract-

ed, we're able to focus on what we trunk is funny." Maiion says. "It's not like it is out. in Los Arigeles where it's. Well, so and so is real funny; he's real hot-let's do something like that "We siso neve this very efficient workspace - no unnecessary meetings, parties, phone calls, sales people comino you are. It's a real factory here. We can do it all by oursalves. We can work out our own vision and not have to spend a lot of time and anergy fulfilling other people's

agendas just to get to limit

starting cont

ar factory? Well, yes, but that doesn't begin to convey the draziness, sillingss, and wayward comets when you're in that space. As you watch the host segments beno firmed for the show with Hercules Unchained, you can hear stage directions you would hear nowhere else: "Crow, would you please turn your beak perpendicular to the lens?" and "Can we get a sollting muchanism for Tom so he can no

a spit take?" You can watch

the bots crowned with lau-

rel wreaths for the Olympian

grapes peeled for them by can see Michael Nelson, the fibergiass cotton into an aqing-but-stitt-morobabiv-buigno Steve Reeves, now apcearing with the Mad Scientists, recalling his glory days

in the Greek-god business. You also discover that such fun and demes are hardly just fun and games, to fact, it is amazing to see just how much labor it takes to be very good at making funof a very bad move. There are props that need to be mayie segments; props that

budget and an ever lighter deadline Says toolmaster Mayhard, "I work as hard as I can to make size these cuvs get just what they're looking of paternal pride in their sketches." He recalls the day they came to him and said. "If we do a piece on Michael Feinstein, can you

build a grand plane? Then there are the chalmust sit in front of the screen, solithno their taxed attention among the perfect N-awful movie of the week. chronometer, and their scripts, all the while maninulating an unweigy puppetin character.

And there is the work of writing the show it takes the writing group a good part of five days to produce the necone- and two-liners, materialthat's constantly reworked until the last possible moment First and last but not

least, there is the metter of screening, selecting, and working with the perfectly awful films themselves "Triese are very bad movies." Maton says, and we're forced to watch them again and again. and again. We're talking about atrocious performances temble camera techocure, poor tooling, awful auoccasion, as they sayor the dio tracke. And to sil for



Look out below, it's Godzilla! He's making things hot for his sei-fi foes, but he's the

one "getting roasted" by captive film critics (loft to right): Yom Servo, Joel, and that metalloid Marx Brother, Crow.

D U N E

lranslated to the computer screen for the first time, you can now experience

the exolic world of the besiseining science liction











(1) At the control of the Collarent is Corporal and the control of the Collarent in Collarent is Collarent in Collarent in

hours and hours and go through these things very slowly-to spend, not an hour and a half with these things, but to spend entire days, multiple days!" Pain sometimes dims perception on

those days. "When we're ready to start working with a movie," Mallon says. "I almost always turn to Mike iMichael Neison] and say, 'How's this movie?' and he says-and I'm telling you the truth

when I tell you he says this 90 percent of the

time-he says. I know ! said that the last movie we did was the worst movie we ever did but this one is clearly the worst." President of Best Brains and the producer of MST3K, Mallon, 36, is the man who keeps all the Mystery Science machinery moving. In some

ways, it seems as though Malinn has been doing something like Mystery Science Theatre for most of his life. In addition to his business and organizafional talents, he possesses creativity, intuition, and a large measure of that humorous but pointed subversiveness that marks the MST style. He produced a TV parody of Wild Kingdom while still in high school and later did paradies of news shows (%tled "15 Minutes" and "Team 23") at Channel

23, the Minneapolis UHF station that aired the first Mystery Science Theatre shows. A book to be published later this year about the greatest college pranks devotes 16 pages to Mallon's "work" at the Madison campus of the Linwersity of Wisconsin "When I sense that someone's too full of himself, it gets me going-

I think that's where most

of my comedy comes from." he says White at Channel 23, Mallon wanted

to tap Minnesota's local comedy talent as a source for original programming. A few years prior to that, Joel Hodgson was the anti-hero in what certainly qualfies as an Amazing Story in this celebcrazed time: Hodgson voluntarily returned to Minnesota in 1984 after havno tremendous success as a standup comedian for two years in Los Angeles. He and his "gizmonic" gadget-

ry appeared several times on Late Night with David Letterman, Saturday

Night Live, and other top shows. There he was. Iving out every Midwestern stand-up comic's dream-and yet. "It made me really uncomfortable," he says. "I missed Minneapolis I didn't have the stamma to cope. Most of the people who were doing cornedy well had been in it for maybe eight or ten

COMEDY CENTRAL'S SALUTE TO OMNI Sunday, August 9

7:00 g.m. Your Show of Shows: "The Professor Expert on Space"

7:30 a.m. Abbott & Costello Go to

9:00 a.m. Quark (pillot for 1978 science fiction siftcom starring Richard Benjamin)

10:00 a.m.

MST 3007: "First Space Ship on Venus' 12:00 p.m. Saturday Night Live: Guest

host Signumey Weaver is featured in a spool of Allens

1:00 p.m. SCTV. "Invasion of Planet Zontar, Part I'

1:30 p.m. SCTV "Invasion of Planet Zontar, Part III 2:00 p.m.

Earth Girls Are Easy, starring Geena Davis, Jeff Goldblum, Damon Wayans, and Jim Carrey

(All times are Eastern/Pacific Davlight Time)

have? Being recognized in a hardware store, that's going to help me?" He went back to Minnesota. "I was sick of comedy. I didn't think I'd ever do it again. So I started doing other thingsmaking these robots out of junk and selfing them-that's kind of where the bots came from-and I worked in a Tshirt factory." Hodoson had just begun writing material again for other come-

dians, including Jerry Seinfeld, when Malion approached him about appearing on Channel 23. A week later he came back to Malion with the prototype of Mystery Science

The program, which first appeared in 1988. was an immediate success, inspiring more than a thousand letters from fans (known as Misties), who seemed to feel a special psychic link with the show. Twenty episodes of MST3K had been completed when it was sold to

HBO's Cornedy Channel. Refere the show could really take off, however, it was necessary for Hodgson and Malion to enlist a few highly skilled and trusty crew mates. The Best Brains Creative Team, it must be said, providas a very nice change from your usual TV spuds and duds. The guys act like a hunch of humble Clark Kents, though each nossesses powers far bevond those of most mor-

tal TV performers Associate producer and writer Kevin Murphy is the voice of the worldly and erudite Tom Servo, Murphy worked with Mallon at Channel 23, where he appeared as investigative reporter Bob Bagadonuts on the "Team 23" news parodies. He has been involved in virtually every as-

pect of Mystery Science Theatre production. Until fairly recently, when the Best Brains budget allowed for hiring more staff, Murphy was the show's cameraman, did the show's lighting and sound, and acted as its post-production supervisor. One of his main contributtons to the group, he says, is that he serves as "a repository of arcane information." (Says Hodgson, "Kevin has the mind of a boy who stays up late and

CONTINUED ON PAGE TO

A full day of science fiction presented by the crazy crew at Comedy Central

> 4:00 p.m. Saturday Night Live Guest host Dolly Parton is featured in "Planet of the

> > 5:00 n.m. SCTV: Mery Griffin examines

> > science-fiction movies 5:30 p.m. The Best of Groupha: Author

> > Ray Bradbury is a pontestant 6:00 p.m. Saturday, Night Live Guest

host William Shatner visits a Star Trak convention 7:00 p.m MST 3000: "Teenagers from

Outer Space" 9:00 p.m. Penn & Teller "The Invisible Thread" (Two of Earth's

favorite magicians are called to save the planet from invading aliens) 10:00 p.m. Saturday Night Live Guest host Tony Danza is featured in a spoof of

The War of the Whride

wars. I was 22. Liust didn't understand. how to be with people, where to find friends. I was really lonesome." Hodgson, 32, combines the disarm-

ing abstractedness of "Joel Robinson"

with a surprising directness. He has

been performing since his days as a kid

magician in Green Bay, Wisconsin-

Hodgson suffers from few illusions

about the value of fame. "I fee that's op-

ing to compensate for something I don't

For more than seven millennia, nothing disturbed the ancient tribal bural site in the hot Florida countryside except the ground-shaking maket launches from the space cen-

ter 15 miles to the east Then one day in 1982. Steve Vanderjagt's back hoe carved a ten-foot-deep hole in a Brevard County bog, digging up dozens of femurs, ribs, and skulls. Vanderlegt, a contractor working on a new road for a 1,500-acre housing development called Windover Farms, had no idea what he'd uncovered. No one found out until years later that many of the skulls carried a cargo as precious as any

probe we've sent to the stars Hidden inside the dark-brown bones were gray claylike brains. They in turn contained 7,000 to

8.000-year-old samples of DNA. the basic biological code for building every human cell. In a remarkable coincidence, DARK the Windover Farms discovery came just a few years before sci-





course of evolution itself.

These possibilities never nocurred to Vanderlagt on the day his hoe cut ten feet into the old burial ground. He didn't even know at first that he had unearthed part of a body-he thought he'd stumbled on a ball-shaped rock that had rolled out of the soggy black-andredbrown neat mound

"But he had enough sense to know that we don't have round rocks in Florida," says Jim Swann. the developer who bired Vanderlagt to clear out the bog to make way for the sand base of a new road When Vanderlagt got off his back hoe and picked up the strange piece, he came face to face with eve sockets. He and his foreman soon found other bones, washed them, and telephoned Swann. The developer arrived to find several skulls stored in a buck-

et of water. "I called the county attorney and said. What do you do when you find human bones?" Swann recalls. The sheriff's department packed the bones in body bags and carned them in a car trunk to the coun-

BOGS. entists fearned to "amplify" DNA.

making it easier to read. Applied to the buried brains, the new tech-

Article By Gurney Williams III

Archaeologists are tapping a new gene machine to analyze ancient DNA from a tribe of huntergatherers buried in a box

A,AND THE MUMMY nology has given researchers the beginnings of a family tree for Flor-

ida's "lost tribe. The amplification technique, called the polymerase chain reaction (PCR), allows scientists to make a billion copies of a more fragment of DNA. Like detectives looking at a computer-enhanced photograph enlarged many times, researchers using PCR can analyze the hereditary messages inside plants, animals, and human cells. When first developed, the technique helped a Wayne State University geneticist delve into the genes of leaves that dropped into a pond 17 million years ago, Scientists today call on the same techrique to explore questions about

the history of ancient tribes, i Ising PCR, scientists have also shown human DNA to be unmaninably durable, able to survive our living bodies by thousands, perhans milfions, of years. Traipsing through the centuries with this extraordinary time machine, anthropologists are unearthing secrets about the ancient human brain and immune system and scrutinizing the sweeping







ty coroner. "And he proclaimed they were more than a hundred years old." Swann says. The finding closed the book on a possible murder investigation. Swann got his bones back. He himself had become intrigued by the mystery surzounding them and paid for an analvsis of their age. No one yet know about the brain tissue enclosed in the old skuils.

By the time the original bones

came back, "it had rained on the pile of peat," Swann says, "and there were bones all over the place." For several days, the foremen had carted some of them. around in his truck. To reduce the throat of vandalism. Swann took as many of the bones as he could home with him and left thorn in buckets in his back yard in Cocca, Florida. His wife thought he was crazv. he savs

"I had buckets everywhere," he says. "It got to be spooky. You'd look down and see those sockets looking up at you. I wanted to get rid of them." Swann donated the bones to Florida State University And the state's legislature, at

Swann's urging, appropriated \$200,000 to carry on with archaenlogical precision what Vanderlagt's rugged back hoe had begun By careful digging, Florida State researchers led by anthropologists Glen Doran, Ph.D., and

develop a clear picture of the ancant tribe's burial procedures. And they learned some things about the way the tribe lived day to day Objects and cloth found in the

bunal site show that these ancient people used spears for hunting and bones from deer, dog, and bobcat to make awis and needles. These early Americans were also surprisingly skilled weavers, evidence that they were good enough at their workaday hunting and gath-

ers covered the bodies with peat

bones were gray, claylike egon to have time for grafts There were other messages, as brains. The eloquent as a churchyard stone, in shrunken brains the way the ancient residents arcontained ranged graves in what was then a some ordinary shallow pond. Most of the clothshrouded bodies lay on their peat-and sides leas tucked into a loose fetal position. It appears that mourn-

Hidden inside

the dark brown





terial and fungal organisms that prey on buried bodies and brains The skin and flesh dissolved over years. But many of the bones, including half the skulls and a number of brains, came out of the natural time capsule well preserved So solid were the skulls that it wasn't until two years after Vanderjagt made his initial contact with the bones that scientists found the

From the beginning, researchers had noticed that the skulls were heavy. The scientists had always assumed that the weight resulted from clumps of peat in the crania. But by December 1984, some of the Florida State researchers were beginning to suspect that pieces of tissue might have survived One skull fragment was attached to meteral that dich't look like peat. When researchers scraped the mystery substance

and gave it a crude test. "It seemed to be human tissue." Hanswirth save They suspected they might find more brain tissue in some of the intact skulis-one in particular. The

SING A HACKSAW, RESEARCHERS REMOVED THE TOP OF THE ANCIENT SKULL, AND A BRAIN FELL OUT:

and wood and built a stick frame like the skeleton of a tent over the remains. Offerings-bone and antsome extraordiler tools, an oak bowl, a doublenary 8,000ended pestle-accompanied some vear-old DNA. of the bodies, and the gifts were Scientists most generals for volumer tribe reading the DNA About ten feet of neet accumuare creating

lating over the site during subsequent millennia provided fortresslike protection for the burial ground and its hidden treasure of DNA Most peat bogs destroy genetic material even while preserving the hodies in which it resides. according to William W. Hauswirth. Ph.D., a professor of microbiology at the University of Florida College of Medicine.

That's because most bogs are acidic. "very bad on DNA." Hauswirth says, "In fact, DNA can't survive for more than a few days in the typical kind of acidity that peet bogs have." But the particular blend of plant debris at the Windower Ferms site neutralized the acidity. Additionally, the lack of oxygen in the peat and minerals it con-



8,000-year-old skull was heavy, Hauswith says, "and there was something thumping around inside "More peat, lab workers suspected. Using a saw from the lab's tool cheet Phili ainis Ph D, an associate of Hauswirth's, removed the top of the skull. And a brain

"It just plunked into a student's hands," Hauswirth says, "Some-

body said, 'It's a brain! It had shrunk to about a quarter of its original size, the reason it had rolled around freely inside the skull. The brain lacked the usual protective membranes. Blood vessels had disappeared. The narrow sits or fissures in the brain were filled with peat. But the overall appearance was startingly similar to a mod-

ern human brain After the milial shock, researchers rushed the brain into a sealed glass iar. They filled the iar with inert argon gas to prevent any further decomposition from contact with oxygen, and refrigerated the whole package. At that point, the scientists didn't know what to do with it PCR was in its infancy. "We

CONTINUED ON PAGE 66

tained inhibited most kinds of bac-



a family tree for

"lost tribe."

Florida's



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IS EGYPT'S GREAT SPHINX EVEN MORE ANCIENT THAN WE THOUGHT? A MODERN RIDDLE OF THE SPHINX

ARTICLE BY ROBERT M. SCHOCH



SPHINX FINDINGS STIR UP CONTROVERSY

Several Egyptologists and geologists have challenged Schoch's conclusions. Omni will continue the debate.

Naturally Robert M. Schoch's conclusion that the Egyptians built the Great Sphinx in 5000 e.c. rather than 2500 B.C., as Egyptologists have believed for more than a century, has incited controversy and heated debate: Foremost among Schoch's critics are Mark Lehner, an Egyptologist at the University of Chi-

cago, and Ki-Lai Gaufi, a geologist at the University of Louisville in Kentucky. They dispute Schoch's findings on several points involving duite complex aspects of geology and Egyptology Omni has invited the data and the controversy surrounding it in a future issue.

The Great Sphinx looms over the Egyptian desert, keeping silent watch over the tombs of the ancient Pharachs. A human-headed lion carved from solid Imestone, the Sphirx stretches for 240 feet and rises 66 feet above its base on the far-eastern edge of the Guza Plateau, facing the Nile River and the rising sun. For decades. Foyptologists have confidently dated the Sphinx to about 2500 B.C. when the Pharaoh Khafre, also known as Chephren, allegedly commissioned its construction. But new evidence challenges that longheld theory: Examining the great statue from a geological point of view rather than an Egyptological one suggests that much of it was built around 5000 B.C.—thousands of years earlier than prewously thought

Over the years, Egyptologists have held widely diverse opinions about the age of the Sphinx. At various points in their careers, such eminent scholars of the last century as Sir Flinders Petrie. Sr E. A. Wallis Budge, and Sir G. C. Maspero considered the Sphinx older than the pyramids it guards, as did the Egyptians themselves from about 1500 B.C. (the beginning of the period known as the New Kingdom) through Roman times. To this day, the villagers who live near Giza have an oral tradition that the Sohinx, which they call Abul Al-Hol. or "the Father of Terrors," is some 5.000 years older than the nearby Great Pyramict of Khufu, also called Cheops, and the smaller pyramids of Khafre and Menkaure (Mycerinus).

in recent years, the prime proponent of an older Sphinx has been John Anthony West, a writer, tour guide, and "independent Egyptologist" who has no formai degrees, credentials, or academic affiliations in Egyptology. He first came across the lidea in the works of the late. Orientalist, philosopher, and controversiai Egyptologist R. A. Schwaller de Lubicz. Buried deep in one of his texts. Schwaller mentioned that the Sphinx showed geological weathering features that indicated it could be much older than most modern Egyptologists believed. But West has no training in geology and so could not convincingly pur-

sue the subject on his own.

potential candidate.

manmade structures

I first met West through a rhetoric professor at Boston University, where I am. a science professor specializing in geplogy. I hold bachelor's, master's, and doctoral degrees in geology. The professor, Robert Eddy, had known West for many years and was well aware of West's ideas about the Sphinx's age West asked Eddy to find an "openminded" geologist to help explore his theory, and Eddy designated me as a

When I encountered West in the fall of 1989. I found his ideas concerning the Sphinx's age a bit outlandish, but interesting. At that time, West thought the Sphinx might have been built before the Sahara became a desert—the Giza Plateau sits on the eastern edge of the Sahara, just west of Cairo-dating back to at least 10,000 BC He based this hypothesis on the severe

West mumbled something about getting me over to Egypt to evaluate the evidence firsthand, but I figured he wouldn't fly me over there just to point out what was surely a simple error on his part. By June of 1990, though, West and I were indeed in Egypt, walking around the Giza Plateau. While I couldn't render a judgment after a week of simple observation. I became convinced that either the rocks were behaving in very strange ways or West

was actually onto something

Sphinx's body but not on other nearby

The most persuasive place of evidence for an older Sphinx that I found on that first trip involves the two-stage construction of the temples in front of the Sphirox. Rather than resting majestically on the top of the rocky plateau. as most people envision it, the Sohinx actually sits in a hollow-known as the Sphirix enclosure-formed when the ancient Egyptians carved away the limestone rock to shape its body. Large blocks of this limestone were used to construct two temples, and the Egyptians later govered the limestone with grands facing stones called ashlars. My field observations lad me to conclude that the limestone was exposed to the elements and underwent considerable weathering and erosion before the granthe was laid over it. In places, the workers cut the backs of the ashlars in an undulating pattern to complement the rrequiar surface-characteristic of weathering-of the limestone blocks from the Sphinx englosure. Also, where the granite has fallen away, it's evident that the limestone beneath was not cut smoothly. Bather it shows a higgledy piggledy surface pattern where apparently the ancient Egyptians, before resurfacing it with granite, attempted to cut back and even out the weathered surface, but dign't take off enough

Egyptologists generally attribute the granite ashlars on the temples to Khatra: Carved into them are Old Kingdom inscriptions dating back to about 2500 s.c. it seems reasonable to assume that the limestone blocks would have been freshly cut-that is, their surfaces would have been unweatheredwhen initially used to construct the temples. But if the granite facing covers deeply weathered Imestone, then the temples' core structures-which came from the Sphinx ditch-must predate the granite facing by a considerable degree. Since the granite ashlars date to Khafre's reign, the temples must have been erected earlier, meaning the Great Sphinx must also have been weathering and erosion evident on the built prior to the reign of Khafre

to make the wall perfectly smooth

On my first trip to Egypt, I could only play tourist. I didn't have official permission to carry out scientific research on the Giza Plateau, and I couldn't enter the Sohinx enclosure. Upon my return to the United States, I spent several months drafting a lengthy proposal to the Egyptian Antiquities Organization (EAO), which oversees all research on the Sphiny and other monuments. I requested permission to carry out detailed inconvasive declarated studies of the rocks comprising the Sphinx and its adjacent structures, specifically looking at the stratigraphy (rock layers), weath-

CONTINUED ON 1940E 68

TWO GUYS FROM THE FUTURE

FICTION BY TERRY BISSON • ARE THEY COMEDIANS OR REAL TIME TRAVELING ART COLLECTORS? • ILLUSTRATIONS BY CHRIS GALI



ORT ONE WAS KIND OF TALL ONE DID ALL THE SE WE ARE SE

GUYS FROM THE FUTURE," HE SAID. "THIS IS NOT A HARD

HERE ON A MISSIONARY POSTION TO ALL MANKIND, HE SAID ON SHITTS PRINTS

TO HANG LOOSE ANY SOMEDAY NOW. SHEEL ALLOOSE, 1 SAID ON THE SAID ON

SAID. ONE THE BOTTOM LINE IS, WE HAVE COME TO SALVAGE THE ART
WORKS OF YOUR POSTERIORS." THE TALL ONE SAID. ONE SAVE THE
ART AND LET THE WORLD GO, NOT A RAD LIDEA." I SAID. SHIT MIRE THE



MIDNIGHT AND THE GALLERYS CLOSED. COME BACK EN

MANANA. " "QUÉ BUENO! NO HAY MAS NECESIDAD QUE HABLAR EN INGLES," THE TALL ONE SAID. "NOTHING WORSE THAN TRYING TO

BUT HOW DID YOU KNOW?

AND WE SPOKE IN THE MOTHER



GUAGE, HE WENT ON IN SPANISH,

"JUST A GUESS, I SAID, ALSO IN SPANISH

TONGUE FROM THEN ON "IF YOU

REALLY ARE TWO GUYS FROM THE PUTURE YOU CAN COME BACK IN THE
FUTURE, LIKE TOMORROW AFTER WE OPEN, RIGHT? *** TOO MUCH DANGER OLE TIMESTIP? HE SAID OWE HAVE TO COME AND GO RETIMEST.





WORLD. PLUS WERE FROM FAR IN THE FUTURE, NOT JUST FOMORROW

IN THE COMING HOLOCAUST BY SENDING CHRONOSLOT TO OUR CENTURY IN WHA! IS TO FUTURE SO I GOT THAT PICTURE I SAID BUT



YOU THE DISTANT

WEAR UNIFORMS IN YOUR CENTURY? (Secondly, So I'M MOONLIGHTING AS A SECURITY
GUARD, Secondly I'M YOUR ROSS WE REED TO TALK TO GET HIM HERE TOMORROW AT

1/2 fcdagada. - dadada bara- per

midriight, okav?"

"He's a her." I said. "Besides, mira, how do I know you really are, on the lowel, two guys from the future?" You saw us suddenly materialize in

the middle of the room, didn't you?" "Okay, so I may have been dozing.

You try working two jobs. "But you noticed how bad our ingles was. And how about these outlies? "A lot of people in New York speak worse ingles than you," I said. "And here on the Lower East Side, funny suits don't prove anything." Then I remembered a science-fiction story I had once heard about (I never actually

"You did what?" said Borogove, the gallery owner, the next morning when I told her about the two guys from the future

read science fiction.)

"I lit a match and held it to his sleeve." "Girl, you're lucky he didn't shoot

you." "He wasn't carrying a gun. I could tell. Those shimmery suits are pretty tight. Anyway, when I saw that the

cloth didn't burn. I decided I believed their story." There's all sorts of material that doesn't burn," Borogove said. "And if they're really two guys from the future who have come back to save the great

art of our century, how come they didn't take anything?" She looked around the gallery, which was filled with giant plastic breasts and buttocks, the work of her dead ex-husband, "Bucky" Borogove

She seemed disappointed that all of them were still hanging 'Reats me." I said. "They insist on talking to the gallery owner Maybe you

have to sign for it or something Hommon There have been several mysterious disappearances of great art lately. That's why I hired you, it was one of the conditions in Bucky's will in fact. I'm still not sure this isn't one of his posthumous publicity stunts. What time are these guys from the future supposed to show up?" "Midnight"

"Hmmmmm. Well, don't tell anvone about this. I'll join you at midnight, like MacBeth on the tower."

"Hemlet " I said, "And tomorrow's my night off. My boyfnend is taking me to the cockfights." "Fill pay you time and a half." she said. "I may need you there to translate-

My español is a little rusty " Girls don't go to cockfights and I don't have a boyfriend. How could I? There aren't any single men in New York. I

just didn't want Borogove to think I was

But in fact, I wouldn't have missed it for the world

I was standing beside her in the gallery at midnight when a column of air in the center of the room began to shimmer and glow and ... but you've

seen Star Trek. There they were, I decided to call the tall one Stretch and the cute one Shorty "Bienvenidos to our century." said Borogove, in Spanish, "and to the Boro-

gove Gallery." Her Spanish was more than a little rusty; turned out she had done a month in Cuernavaca in 1964. "We are described in Art Talk magazine as the traffic control center of the Downtown Art Renaissance."

"We are two guys from the future," Stretch said, in Spanish this time. He held out his arm. "You don't have to prove anything,"

←Girls don't go to cockfiahts and I don't have a boyfriend. How could 1? There aren't any

said Borogove "I can tell by the way you arrived here that you're not from our world. But if you like, you could show me some future money "We're not allowed to carry cash,"

men in New York. 9

"Too much danger of Timeslip," explained Stretch "In fact, the only reason we're here at all is because of a specral exemption in the Chronolaws, allowing us to save great art works that otherwise would be destroyed in the comng holocaust

'Oh dear What coming holocaust?" "We're not allowed to say," said Shorty. It seemed to be the only thing he was allowed to say. But I liked the way that no matter who he was talking to, he kept stealing looks at mo. "Don't worry about it," said Stretch,

looking at his watch. "It doesn't happen for quite a while. We're buying the art early to keep the prices down. Next month our time (last year, yours) we bought two Harings and a Ledesma right around the corner."

paintings were reported stolen." Streich shrugged "That's between the gallery owners and their insurance

companies. But we are not thieves in "What about the people?" I asked. "You stay out of this," Borogove whispered, in inglés "You're just here to

Lignored her, "You know in this coming holocaust thing. What happens to

"We're not allowed to save people," said Shorty 'No big deal," said Stretch. "People

all die anyway. Only great art is forever. Well, almost forever. "And Bucky made the short list!" said Borogove. "That son of a bitch, But I'm not surprised. If sett-promotion can-

Bucky?" Stretch looked confused Bucky Borogove. My late ex-husband. The artist whose work is hanging all around us here. The art you came to save for future generations."

"Oh no." said Stretch He looked around at the giant tits and asses hanging on the walls. "We can't take this stuff. It would never fit through the Chronoslot anyway. We came to give you time to get rid of it. We're here for the early works of Teresa Algarin Rosado, the Puerto Bigan negretromaximinimalist. You will hang her show next week, and we'll come back and pick up the paintings we want "

"I beg your pardon!" said Borogove. "Nobady tells me who will or will not hang in this gallery. Not even guys from the future. Besides, who's ever heard of this Rosado?

"I didn't mean to be rude," said Stretch. "It's just that we already know what will happen. Besides, we've already deposited three hundred thousand dollars in your account first thing tomorrow."

"Well, in that case " Borogove seemed molfried. "But who is she? Do you have her phone number? Does she even have a phone? A lot of artists "How many paintings are you going to buy?" I asked "You stay out of this!" she whispered,

in ingles. "But I am Teresa Algarin Rosado." I said.

I quit my job as a security guard. A few nights later I was in my apartment when I noticed a shimmering by the sink. The air began to glow and you've seen Star Trek I barely had time to cull on my leans. I was painting and I usually work in a T-shirt and undemants

"Remember me, one of the two guys from the future?" Shorty said, in "Bought?" said Borogove "Those CONTINUED ON PAGE 71



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INTERVIEW

The diva of West Coast performance art indulges in a little cosmic laughter at the fate of Earth.

RACHEL ROSENTHAL

PHOTOGRAPHS BY DAVID MICHAEL KENNEDY

believe in the sacred clown in many traditional cultures, the persons who are the downs, who make people laugh, have been high in the spiritual bierarchy and considered close to the gods. And of course the gods are always. laughing at us. So if we can laugh at ourselves, we get a little closer to the gods." Rachel Rosenthal is not a clown, even by her own definition She's called a performance artist, but that, too, is a category that cannot contain her. Combining elements of theatre, dance, painting, sculpture, projected slides and texts, taped and live music. Rosenthal creates art she hopes will help heal the earth

parents, she began performing at age three and just four years later was presenting "events" for up to 150 quests in her parents' home. Her parents, she says, were sensual people who loved art and music." Her home was filled with the works of Monet and Chanall, and her father, a wealthy jewelry importer, frequently traveled to Italy

accompanied by an art historian When the Nazis invaded France in 1939, the Rosenthals fled pennifess, eventually arriving in New York City. where Rachel attended the High School of Music and Art. She studied art with Hans Hoffmann dance with Merce Cunningham, and theatre in Paris with Jean-Louis Barrault. Her friends then included John Cage, Robert Rauschenberg, and Jasper Johns In 1965 sho moved to Los Angeles where she founded the Instant Theatre and met the actor King Moody, better known as the clown Ronald McDonald They were married for 20 years Since 1975 she has written. directed, and acted in close to 30 full-length performances in the United States and Europe Resenthal's art is dedicated to staving off what she envisions as a

"total ecological crash." One

performance piace, "L.O.W in Gaia," is based on her three-week rite de passage in the Mojave Desert when she turned 60. The Death Crone is a central character in the piece, another is a conservationminded camper who accumulates increasing numbers of ballooning clastic baos attached like milistones. to her body. In the shamanistic "Pangaean Dreams," she travels back 250 million years and gradually re-creates the evolutionary process up to the present, in "Rachel's Brain," which won an Obje Award in 1987, she 'becomes' first the

Antoinette and later Koko (the "talking" gorilla), attempting to learn sran language to explore symbols of society's alienation of mind from body, and nature in "The Others," she brought more than three dozen anmais on stage.

Besides creating and staging pieces. Rosenthal also teaches at her studio and has taught performance at the University of California and the Otis School of Art and Design, both in Los Angeles. UC-Santa Barbara, and New York University. She is director of the Rachel Rosenthal Company and an advisory board member of the New



Measure of Contemporary Art in New York, In Price Angress studie, Rosenhall conducts a workshop called "Doing by Domg", designed to access
moter protound seeds of the sail
set the more problem people come up
with "Humans are made up of cosmic
studies are as and as the cosmos is
both creative and veders, to one we. Criestudies and veders, as one we. Criefield "I by to leave people away from the
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s

Her most recent piace, "fleramer EU-TURFAX," presented at the Whitney Mueum in New York, shows us a world of rationed food, government hydrofarms a world without nature or art, where extriction is a certainty. "Until now I've reeristinos. I had puppet hesetre if maniputate for house on end. I alavays feit as III were on show for my parents. beself were on show for my parents. beproper nesses. So when we actually faced each other, it was an event. I would be on my best behavior, will deced each other, it was an event. I deced each other, it was an event. I show the parent As a so, I began ballet classes and felt like a darph bear. Every year on my birthday there was a huge color will be of the transparent of the second of the second parents and the second of the second of the versary. That's when I performed for

150 people
I'd go through agonies up to the performance—just like now. I'd enjoy performing and enjoy the applause. I never staved inovinstairs afterwards but geth-

and something would be touted as so new and innovative, I'd say, "Well,

we've done that " Because we did it all After ten years. I went back to the visual arts and sculpture. And in 1975, I began to see a lot of performance art, and thought. "I can do that, I've been doing that under another name." A gallery asked me to do a performance in 1975, and that was the beginning of it. Since then, that's all I've done, it satisfies all my needs. I control everything. visuals, sound, other people, animals, even cars. The beauty of it is that it also gives me enough improvisational leeway, which I adore. I love to improvise. Omni: Why is improvisation so vital? Rosenthal: It deals with being at one with time, creating in the now. When

SELF-DESCRIPTION: Interdiscriptionary artist, you terminist, annual-rights

activist, vegetarien

GENDER DESCRIPTION

A pay man

in a woman's body

Tin a. 1981 peed about body and sour parting ways. F. created his risual to get rist of the old so the new could grow.

I planned to grow it back right away, but it fet so great, as if

finally I lock the way I feel inside."

WHY HUMOR:

"Like to lauch; but pregmatically."

06

you don't improvise, being at one with an audience is disamfed by laughter and more apt to ebisorb wind I have to say. Otherwise, the pirity too tough to take:

ON INTELLIGENT

"All objects have souls:
"All objects have souls:
me have souls that may look more
like ours because we ve
created them that way, but that
doesn't mean one object.

has more soul than another."

QUOTE:

We are made of cosmic paterial, so duch of us is fike

material, so gach of us is like a spark from this furnace of unballeyable violence and force, creativey and destruction."

ally been afraid to put this out in my work because it is so disturbing," she admits. The greatest threat to the planet's welfare, she believes, is the failure

A converted stoefforth buildings serves as Poleonthal's home, studio, and business office. I know I'd arroad when I saw the poleters in the window urging the boycott of veal! One shere of the poleters in the window obgs. A life-excel replica of Koko sits in an arrochar! I'm not saying this is the way it will be!" she comments as the leaves to wak their dogs, flust the way it will be!" and the or way it might be 'that that office when I will will be a comment as an excellent of the way it will be the poleter of the

Omni: You've performed since you were three?
Rosenthal: Yes, We had a fun family and were always beyon theating inco-

DO CRAW

ered up all my presents and went upstains to my room to be by myself. So in my relationship with people, there was no intrinsery, just the love that an audience gives a performer and a performer gives back to an audience. This is what my real temperament waned to do. It standed very early Omni: How did your career as a thestrical improvisableur bean?

s fical improvisatour begin?

Rosenthist Vibra insturred to Paris attor the war, I read Antonin Araudi 3 The
Yheatire and fish Double, and suddenly
at the heatire. During the fifties and Sixteel 1 had my own heatire comparison
in Los Angeles. Our work paralleled experiments being made in New York or
inners being made in New York or
completely improved, totally service
and the proposed, totally service
works with one of work or
works with one of work or
works with one of work or
works with one of work of the
medium.

time is hard to do because you're enther remembering something peak or pojecting into the future. You're not really mobilizing your whole being in the creative act that's happening at the inment. The one thing id not improved the way i present his leak—time, shaping, amount of really or unreality, sibstract or real movement—this stiff i play with every first i perform it.

Omni: How does your performance art differ from the Dadaist shows early in the twentisth century or from the "happenings" of the Sixties?

Rosenthel: Dada was steeped in Absudism, and "happenings" were open-ended, real tasks usually performed by marry people. Performance art evolved from those and body and action art, but developed as a form where one person is usually in control of every aspect of the piece (unless it's a collaboration, as personal, vulnerable, with a strong visual art input and conceptual matrix rathor than a linear narrative as often is the case in conventional theatre. Visual artists were first to do performance art When I started, I was already much more theatrical than anybody else. Their philosophy was that things had to be totally untheatrical, no rota of acting or theatrical illusionism. It was all real time, real space, real actions. What I do is theatrical with elements of acting, itlusion, and persona. I'm not truly a per-

Omni: That pure form has become rare. Rosenthal: Yes, but quite a few in Europe and the United States still do it The need for it has almost disappeared because it came first of all from a rebellion against the crass materialism of the art world. People wanted to do things that could not be bought and sold, that didn't involve an object you can peddle, that were ephemeral That of course has disappeared because everybody now wants to be bought and sold; it's not economically possible anymore to do performances and not be remunerated. If it weren't for grants, foundations, and presenters who nay my fee. I wouldn't be able to exist or do my work

Omni: Why are women drawn to this

kind of art? Rosenthal: It's simple: They were barred from almost everything else. Hordes of women made visual art but few had a gallery representing them. Performance art was a way for women to make a dent in the art world without pass ing through the art structure-the gallery scene, museums, collectors, the whole schmear This way they could be who they are. Also, somehow women

have a knack for performance Women were very revolutionary in the Seventies, going into taboo areas. Men did taboo things, but most of what they did had to do with body and pain. Many men worked on the masochistic level, doing ordeals, shooting themselves, and so on. Women were usually more interested in telling their story. This was a perfect vehicle, an art way of making personal and political statements. This was more effective than going on a spapbox, writing an article, or giving a lecture. For women, this was a fabulous way to get out of the closet and be who we are.

Omni, Artists such as Laurie Anderson, Eric Boocsian, and Sandra Bernhard use humor to get across many of their ideas. Why has comedy become so popular? Resentbal: It's always been nocular Peonle want to be entertained, to be made to laugh. In the old days, people would go to the vaudeville, the circus the music hall and laugh there. Now they go to other places. The performers you've mentioned target a sophistication level audiences of a certain sophistication who don't go to the circus or clubs to see stand-up comics. This is a bit of an elitism where these audiences can get the "in" loke

Omni: What makes people laugh? Rosenthal: Unfortunately, Aristotle's book on comedy was lost. There's been essay upon essay to try to analyze what makes something funny and little overall agreement. One thing that happens, though, is that the manipulation of events in comedy allows us to disengage from them, distance ourselves from personal and emptional investment. It allows us to be closer to the gods in the sense that we're farther away from what alls us most

Clowns base much of their physical routines on the technique of mechanizing the organic. Even simple stuff in circuses where a human reacts as though you're pushing its buttons makes people laugh. On a more intellectual level, a metaphor in a joke can be used as a kind of trigger. You trigger the punch line and get an almost automatic response. You become a machine yourself, watching a machine. Like cartoons, you see these people and animals on through horrendous pain and accidents. It's no longer a feel-

ing being you're watching. Omni: What is the role of an artist in to-

day's culture? Rosenthal: The separation between art and science is going to disappear completely. More scientists realize their work is art and not hard science and vice versa. Art is like research and development in science. That's why it's so hard to assess if it's "good" or "bad " Quantum physics has shown us something wonderful. Everything we touch and observe changes for the reason of being observed our input actually changes the world. There's a tremendous movement of Earth-oriented philosophies and political awareness among artists. If artists read science and connect with the most contemporary realizations about the universe and reality and then work that knowledge into a form readily understood, that will go far in creating a new reality. Artists have a calling, a responsibility to understand these new scientific paradigms. and create work that reflects that understanding, that disseminates these paradigms on the human level.

Omn: How has the evolving technolony changed the ways in which artists CONTINUED ON PAGE 74



"I suggasse I'm pretty lucky. The doctor says I'll never play the mana." again, but then I never played the piano anyway."

FIREFIGHTER!

1922 Ahrens-Fox R-K-4 Pumper.



1922 AHRENS-FOX R-K-4





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AUTIMATTER

UFO SHRINKS

To most people, UFO abductees who say they've been kindapped by they've been kindapped by the second by the mailpred group of sufferent has gurnered support from some members of the mental health profession: psychologies, social work from some members of the second by the second by

dinator for The Mutual UFO Network (MUFON), the Seguin, Texas-based UFO group. Thanks to Carponetor's efforts, in fact, MUFON has recent: by signed up more than 100 mental health professionals interested in working with the alleged victims of UFOs.

One of MUFON's rising stars is Tromic herapist David Gottle. Gottle Depart of work with abductees in 1988 after meeting a worman who suffered from extreme analety because, she said, afters had whisked her away. Several other therapists had refused the work with the worman, but Gottle took her on. "I was sympathetic, the explains," because she was systematically being was systematically being was systematically being was systematically being properties. denied heip." Now, some four years and 35 cases later, Gotib attends abduction conferences, writes papers, and even cranks out a newsletter of useful information for abduction researchers. Another abduction shrink is Carpenter

Carpenter works 40-hour weeks with disturbed patients, yet he has added more than 50 abductees to his caseload as well.

Abductees are also of prime interest to Harvard psychiatrist John Mack. At first, Mack explains.

ur self-aggrandizing, or trying to hide child abuse.
But since their stories
were beyond the bounds
of what most conventional therapists might
consider reality, they
were said to belong in

consider reality, they
consider reality, they
were said to belong in
some psychiatric category or other."
Of course, not
swenyone is willing to
jump on this bandwagon.
Robert Baker, a retired

professor of psychology

from the University of Kentucky and an expert

O N

himself. He'd been attending a workshop at The Menninger Clinic in Topeka, Kansas, he

The Menninger Clinic in Topeka, Kansas, he explains, when he read Intruders, the book by abduction research pioneer Budd Hopkins. An expert in hypnotherapy. Carpenter was intrigued by Hopkins' use of hypnosis to bring abduction accounts to the fore. "I could understand what he was talking about and envision the process."

says Carpenter, Soon

he had his first case

after contaction Hookins

he considered the UFO phenomenon "nonsense." Then, two and a half years ago, a psychologist friend introduced him to Hopkins. Hopkins brought him up to speed on abductions and Mack realized they were not a psychiatric amomally, but rather, an important and interesting the proportion of the properties of the proportion of the properties the properties of the properties of the properties the properties of the properties the pro

In fact, says Mack, "I realized there was a lot of misd agnosis among abductees. These people were not psychotic, dissociative, malingering,

on hypnosis, for example, says that mental health professionals get into abduction work because "they are naive and eager for attention and publicity." Stories elicited through hypno sis, which may en subjects to fabric scenarios, are suspect Baker says. Any legitimate psychiatrist who has worked in the area he adds, "would be the first to tell you that the abduction phenomenon is utter nons

Still, as far as Carpenter is concerned, the abductees offer mental health professionals an area for fresh inquiry and debate. "I have found," he says, "that if you take it seriously and talk about it seriously, serious people

-Paul McCarthy



Sty Mound: Art on a landfill STONEHENGE IN NEW JERSEY

A 57-acre garbage dump in northern New Jersey is about to be turned into a modern-day Stonehenge. Dismayed by the ten tons of garbage marring the site in Kearny, the state's Hackensack Meadowland Development Commission (HMDC) has asked artist Nancy Hot to reclaim the site in the form of a work of art called Sky Mound.

Like the original Stonehenge in England, Sky Mound will serve as what Holt calls "a celestial observator," Stuated atop what was once a 110-foot-high landfill, in fact, Sky Mound will offer sweeping views of New Jersey and New York.
The new art work, says
Holt, calls for transforming
the flat-topped, pyramdshaped landfill mo a park
with radiating gravel
paths. 10 large mounds,
steel poles, varied the
attract some of the area's
250 species of birds. In
addition, a series of arcing
pipes will probe deep into

addition, a series of aroing pipes will probe deep into the landilli, recovering methane trom the rotting garbage below and providing an alternative source of energy for those in the community.

"The extreme positions of the moon will be framed of the moon will be framed."

of the moon will be framed through the methane pipe loops, and the rising and setting of the stars Sirius and Vega will be marked by turnels and stainways," explains Holt. "On the solutions and equinoxes, people will be able to observe the sun rising and setting between the

observe the sun rising an setting between the mounds framed by the Sky Mound poles." Because the Kearny landfill is adjacent to the New Jersey Turnpike and the Amtrak train lines and is observable from a flight path to Newark Airport, Sky Mound will be seen by as many as 125 million commuters annually.

"Landfills will be seen as the legacy of our generation," says Holt.
"They are the monumental artifacts of our era, and the time has come to think about how we're going to bring them back to the community."

Anita Backin.

PET SCULPTURES

When a pet dies, the loss is often hard to take. Perhaps that's why Americans are buying custom-made tombestones in the pet cemetery and fancy urns for pets' ashes! Now there's a new option:
Lifelities oculptures made from a cert's cerearie.

from a pet's remains. Suam McNeely-Ellebracht of Dexter, Missouri, came up with the patented process for these soulptures three years ago, after her own pet cat, Casey, died. Like most grieving pet owners, McNeely-Ellebracht found hersell poring ower "flat photos" of the animal, "The photos didn't help." she says, "so I tried to find something better."

According to McNeely-

realistic sculpture of a per

Ellebracht, building a

is not easy. "We do

along with photos, are shipped to company studios in Crand Rapids, Michigan. Ashes are mixed with day and poured into a mold of the animal. There are several options, adds McNeely-Ellebracht. "We can do different sizes and colors and even add on the pet's actual collar or how. But are these pet

interviews with the owner

Then the pet's ashes,

sculptures really good for the owner? Not according to Bonnie S. Mader, manager of the Pet Loss Support Hotline, affiliated with the University of California-Davis Veterinary



School, who says sculptures of dead pets may encourage bereft owners to "pretend the animals are still in their life." The new pet sculptures

are still in their life."
The new pet sculptures begin at \$475 and range into the thousands.
—Allen Salzberg





MUMMY

CONTINUED FROM PAGE 44

didn't know if we could ever rescue a

gene." Hauswirth says. Some lab work at the time had raised hopes that it might be possible. California researchers led by the late Al-Ian Wilson, Ph.D., at the University of Calforma at Berkeley, reported that they had been able to isolate and copy DNA from museum remains. Their specimen was an extinct horselike animal called a quagga. Assisted by Russell G. Higuchi, Ph.D., Wilson accomplished the cloning by inserting pieces of quagga hereditary code into bacteria When the bacteria multiplied, they multiplied the quagga DNA as well. The researchers eventually extracted that DNA-genetic clones of the original quagga genes-from the bacteria. Then they compared the cloned quagga genes with genes from modern animals. To the scientists' surprise, the evidence showed that the quagga was actually a closer relative of the zebra

than the horse. Another breakthrough came that same year at the Cetus Corporation in Emeryville, California, There, a researcher developed a new technology that would supplement bacterial cloning.

with a biological "copy" machine The polymerase chain reaction (PCR) machine was the invention of biochemist Kary B. Mullis. Ph D., at Cetus, (See Crnry Interview, April 1992 | Mullis, now a consultant, says the idea for the technique came to but one Friday night in May of 1983. By the following fall, he was ready to try his first experiment. It failed "I was shooting for the moon." he says, with an overly ambitious test of the idea. He scaled back and ran the first successful PCR experiment in December. When it worked, "I felt terrific," Mulfis says. That night, he dropped by the home of Fred Faloona, a technician who had worked with him, and over beers told Esloona that the experiment was going to change molecular biology" He was night.

"Multis had invented a comparatively simple way to emplify any small piece of DNA. The easy-to-use device, Hauswirth says, works like an oven that atternatively heats and cools the moterative or the same that atternatively heats and cools the moterative cycler, "he says." Just a block with a few holes in it for test tubes. There are no mounts park.

The catch is making the recipe for what goes into the test tube. Oher ingredient is a sample of the DNA under study. In its natural state it is shaped the allong ladder twisted into a sortal. Under heat close to the boiling point of water, the hydrogen bonds that hold the two strands of the spiral together break vertically, down the middle of the "rungs." The heat-sundered parts now

break vertically, down the middle of the "rungs." The heat-sundered parts now simmer in a soup, rich in parts needed to make copies of the original. What's plever is that the soup cop-

What's clever is that the soup contains tiny fragments of laboratory-produced DNA called oligonucleotides, far smaller than the sample DNA strands. These are comparable to short chains of letters a word processor operator. types on a keyboard to begin a search for a passage in a document. After the heat goes on and breaks down the sample, the oligonucleotides find the beginring and end of a specific portion of the broken, ancient DNA. They bind with and mark off portion after portion, eventually reconstructing each of the two broken strands. Then other ingredients in the "soup" fill out two new double-stranded spirals that perfectly match part of the original sample.

Researchers don't have to know the patiern of the DNA between the oigonucleatides any more than a word-processor operator needs to know all the words between markers in a block of copy. But once the strands have been 'tagged' with the oligonucleotides, Mullis says, "you can take a portion of DNA out of its context and stick it somewhere else, as in word processing. Or you can make a lot of copies of it," each exactly the same length and therefore easy to identify and study in later analyses. Researchers make the duplicates by repeatedly turning up the heat-breaking up the double-stranded spirals and forcing chemicals from the soup to pair up with each single strand, forming two new double strands. The process enables its users to reproduce the ancient gene and to scan for similarities and differences between ancient and moriem. hereditary code

None of this takes a long time. "You can amptify one gene from one brain in about four hours," Hausweth says, although analysis of results may take another week or two.

The technique doesn't always work

parfectly. Hauswith acknowledges, "Each sample requires different PCR conditions to get it to amplify." Its not just a toutine thing to crark out a whole bunch of samples." But when the works, PCR is so ensettler, it can be tested one cancer cell out of a million health work and the health public and the like a time machine. The technique enseties them to reconstruct for older health public and hence more time-ravagod samples then sever before.

Hauswirth is now applying the laboratory "time machine" to a mother lode



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equal it.

Tangueray Sterling Vodka

of such samples, Out of 177 bodies found so far in the bog, 91 yielded brains or substantial brain base. If we could reconstruct their memories, the collection would give us certifures of firth-all history. "These people were burned over a period of at least one thousand

years, "hauswith says. But the brain may yield up someling almost as good as an oral freshores Celsus, the neuronal fasus may give researchers genetic information vitually impossible to obtain by standardy modern populations." We have a genettually may be a superior of the protoring the standard says. Very fleety trolated to each other. We may have the great—grandfather of the youngest may great—grandfather of the youngest in great—great great of the submorphies as we do so the submorphies as we also we can see the superior submorphies as we also we can submorphies as we also we can submorphies as we also we submorphies as we also we can submorphies as we see as submorphies as submorphies as submorphies as submorphies submorphies as submorphies as submorphies as submorphies submor

Heusevith says IECA probably worth reveal a full finally five sepanning a millennium. But preliminary work shows that portions of chromosome 1, the largest of 23—each made up of thousands of genes-enterment unchanged infrouga-day take five page for seasons the probable of the page of the most mind of the page of the most mind probable of the page of the most mind probable probable oversit is intable last-order page of the probable oversity in trable last-order page of the page

ry, "It will tell us things like how isolated this population was—how much contact these people had with other populations with different genefics, and how much mixing there was."

Another major study is designed to organe the Windowser genetic material with genes from exveral other and control contemporaneous provisions—probably one other North American the and another from Middle or South some old questions about our past. If it genetic profiles are different, better genetic profiles are different, the genetic profiles are different in the waves on bridge at different series. Or it might more than the protection of the profile of the profile

netic pool dispersed and charged. The PCR set Imay also led to reconstructions of tribal catastrophe. Prior to communicate the prior to the set of the contract of the teerth contury, the native population amounted to more than 20 million, according to some estimates. In the subsequent century, contact with Europeans cut the population to fewer than 5 million, perhaps from diseases the manual pox influenza, or meastles. In the source, these survivors passed through a ge-

thousands of years, their common ge-

rich hereditary diversity that had developed on this continent since the first inhabitants arrived.

The PCR studies of several Native American populations could confirm the devastation. The test is straight-floward, Hauswith says. "We should see a higher diversity—more different versions of a diven gene—in ancient populations."

than in modern." PCR might even find messages in the DNA about what killed the earliest Americans In research published last vear, David Lawler, Ph.D., a postdoctoral fellow at Stanford University, and his associates. working with Hauswith, reported amplifying genes from one of the Windover brains named SS325 (for "special sample"). The genes were partly responsible for immune system defenses against illness. No one can say yet whether SS325 was more or less likely than we are to catch colds or any of the New World maladies imported by European settlers. But researchers predict that within the next five to ten years, PCR will give us the tools to read prehistoric medical records: DNA evidence of disease resistance or susceptibility. Comparisons with our own immune systems.

And scientess may be able to peer back not just 7000 years, but liferally millions. The reason for this estimate who's been stable to make copiers of part DNA millions of years old. Aff first, to darm of Edward Golgenberg, Ph.D., an oppositional genetices, there open anyouth his DNA oction's tourview intending the stable of mixed by the company of the DNA oction's tourview intending the stable of the control of the company of the DNA oction's tourview intending the control of the c

may reveal the nature and extent of the

changes over 7,000 years.

The plants Golenberg analyzed come from the rapin of Praces and Vock-to Kienbaum of Clarkiss, Idaho. The leaves never would have surfaced if Francis wasn't a enough to work the contract of the rapin of the contract of the

He couldn't see it clearly under the lights of the bulldozer, and he left the text dirt before surrise. When he re turned to the site a week later, he was surprised to find a pite of dead leaves where he had been disging. "It



smallert like an old lake bottom." Kienbaum says. He puzzled over the find for a few days and then called the geolocists at the University of Ideho. "I told a lady there that there were

all kinds of black leaves on the ground," Klenbaum says. "They were sitting in clay, and they came loose and blew all over. She started guizzing me. She says, 'Well, how old are the leaves? I say, 'About two weeks.'" University of Idaho geologists led by

C. Jack Smiley, Ph.D., soon determined. that Kienbaum's estimate was wrong. The researchers using radiosotope techniques estimated that the leaves were alive during the Miocene period. Then, the land that became the Kienbaum snowmobile track-today used for dirtbike races-was a warm forest. The leaves fell from oak, beech, tulio, and magnolia plants through humid air into

a large lake The dead plants Kienbaum found were probably at least 17 million years old. Today, anyone can accop up a carton of the leaves by paying Kienbaum \$5. (Call ahead to Clarkia: 208-245-3606.) A couple thousand people a year pick up some, wrap them in newspaper, and carry them away in a pardboard case Kienbaum says the leaves often appear red, vellow, or green when you shovel them from the

ground but turn black within minutes They're not much good as compost. he says "It's harder than hell to get something to grow" in the sticky, clayfilled soil that racers on his track call "dinosaur dung

when exposed to air

But starting in 1988, PCR analysis of the leaves has found and amplified traces of what Golenberg argues is ancient DNA. He started with seven samples of frozen plant material, and within 24 hours, working in the laboratory of Michael T. Clegg, Ph.D., at the University of California at Riverside, suspected he had copied one of their genes. It took six to nine months to complete the work confirming that the DNA was recognizable-as the biological instructions for making part of a magnotia. 17 million years ago

Golenberg's find has raised new speculation about whether the genes of dinosaurs-who lived some 48 million years earlier than the ancient meanolia-might have survived as well. "There's a chance, yeah," Golenbern says. But in general, plants have an edge on dinosaurs and us, he says One reason is that for millennia flowers and greenery have produced protective chemicals that are distasteful to herbivores. Some of these, like tannins, are natural preservatives. So plants of-



ten carry with them nature's version of a do-it-to-vourself mummification kit. Animals and humans are comparatively riddled with bacteria that often five on alter their host's death and consume the genetic code, particularly in soft tissue. That's why our best hope for retrieving dino DNA, Golenberg says, is probably

closest thing to floating, you'll wake no rested and

ready for the day

finding ways to gull it out of bones One widely recognized expert on bone DNA, though, says it's unlikely. "I think it's worthwhite trying," says Erika Hagelberg, Ph.D., a research scientist with the Institute of Molecular Medicine at the University of Oxford in England. 'There's material that's very well preserved. But I don't think that the PCR techniques developed up to the moment would be really sufficient to be successful with anything as old as that. It would need quite a bit of work and re-

Over the past three years, Hagalberg has been successful in amplifying DNA from seventeenth-century skeletons found in a mass grave in Abingdon, England, and from a 5,000-year-old thighbone found in a cave in the Judaean Desert. The genes she found were certrisably human

Some critics suggested that her results might be due to contamination. PCR is an sensitive that amply handling @ 1992 Select Comfort, Inc. the bones, rubbing off a few flakes of skin, could result in a take blossoming of human DNA. "I was getting more and more worried, thinking this is a real possibility," Hagelberg says. So she decid-

ed to put PCR to a challenging test She ran her technique on a white, well-preserved bone taken from the Mary Rose, a ship that sank and silted quickly in the English Channel in 1545 She knew before she started that the bone was a leg of pork, one of many found among the cutlery, leather shoes, and medicinal salve dug from the silt. Fortunately for PCB, the results. published last year, were unequivocal. The DNA in the bone was pure pig

Hagelberg is one of thousands of researchers in hundreds of laboratories today using a technique that didn't exist nine years ago. Thanks to the radical new technique, the scientists say, we now have the ability to go back and look at genes that, in essence, no longer exist on the face of the earth. In fact, the PCR breakthrough also marks a turning point for the human race. From now on, even after we die, with proper tending in the modern equivalent of the Brevard bog, we can supply the template for copies of our genes. And someone can reproduce portions of the code that made us DO

OMNI SEARCHSTAKES!

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SPHINX

ering erosion and decongrahology (land forms). My studies didn't require collecting any samples, or broaking or disturbing any rocks

In addition. I needed to examine the structure and weathering features beneath the rocks' surface and to find out what lay under niles of sand. But how could I see through 50 or more feet of sand? How could I probe nondestructively through rock to see how deeply it has weathered or whether it contains cavities voids, or chambers? West and I ultimately decided to ask permission to pursue limited seismic investigations near the Sphinx, which the EAO grant-

ed along with the rest of our proposal West and I carried out the seismic work as well as other resparch when we returned to Egypt in April 1991. We were accompanied by Thomas L. Dobecks, a geophysicist with the Houston firm of McBride-Ratcliff, who had signed on to supervise the technical aspects of gathering and analyzing the geontwarcal data. The seismic research regured hitting a steel plate with a sledgehammer to generate energy waves (essentially sound waves) that traveled below the surface of the rock and sand, reflecting off of whatever was underneath. Electronic geophones-microphones, more or less-picked up the resulfing vibrations at the surface. The geophones fed their data into a apphishcated portable seismograph, which stored it on computer disks. From the seismic data, we reconstructed cross sections of the area beneath the rock and sand, creating pictures of what lay hidden underneath our feet without dis-

turbing more than a few pabbles After collecting our data, we discussed our work with colleagues at Cairo University and returned to the United States to analyze the data. I returned to Egypt in June 1991 to collect more data and further check the information

I'd already gathered Based on the data. I've concluded that the Sphinx was built in staces. The Egyptians carved the core of the Sphinx—the front and sides—first, in at least 5000 B.C. and perhaps earlier. Later, possibly in Khafre's time, workers chiseled out the rear of the Sphinx and recarved the head. No one knows what the original head looked like, many observers consider the current head too small for the body, and it shows signs of more recent cut marks than does the body Furthermore, it has long been suggested that the face of the Sphinx portravs Khafre, but this assumption has recently been guestioned. After detailed analysis. Frank Domingo, a senior forensic officer of the New York City Police Department, concluded that the face of the Great Sohinx does not match the face seen on statues of Khafre. Most Egyptologists agree that since Khafre's time, the Sphinx has been restored and refurbished many times, as evidenced by the layers of stone veneer covering much of the Sphinx's body and paws

Geologists can date land forms by analvzing their weathering and erosion patterns. In examining the rocks of the Giza Plateau, including those incorporated into the Sphinx and pearby structures. I observed several distinct modes of weathering in identical rocks from the same formation of limestone The Sphinx's body and the walls of the Solom enclosure exhibit mostly precipitation-induced weathering, giving a rolling undulating very deeply weathered profile to the vertical rock surface. By contrast, structures unambiguously attributed to early and middle Old Kingdom times (2600 B.C.-2300 B.C.), the same time the Sphinx was supposedly built, display primarily wind-induced weathering and fairly little precipitationinduced erosion. Weathering produced by the effects of the wind looks much different from that caused by precipilation. On these structures, much of the original surface remains intact, often with hieroglyphic inscriptions still legible, but in places, the rock is softer and has consequently been worn away by wind and sand abrasion, creating

gaps in the vertical rock surface The precipitation-induced weathering evident on the Sphinx-clearly nraserved under the oldest repairs to the statue's core, which date back to at least 1400 B.C -harks back to an earlier moister nertod of time preceding the current and regime that has held sway on the Giza Plateau since middle. and late Old Kingdom times. Both histoncal and geological data indicate that the area underwent a moist period, with sporadic heavy rains, between 5000 BC and 3000 BC Since then, the Giza area has simply not experienced the precipitation necessary to produce the erosional features found on the Sohinx's core body. For comborative evidence, one need look no farther than the Saggara Plateau, about ten miles from the Giza Plateau, where fragile mastabas, or tombs, built around 2800 B.C. of sun-dried mudbricks show. no evidence of the precipitation-induced weathering seen on the Sphink. Therefore, the Sphinx must predate these structures-by a considerable degree, given the depth of weathering

seen in the Sphinx enclosure...

A few declocists have previously noficed the anomalous and very ancient weathering on the Sphinx's core body. but none seem to have drawn the conclusion that the Sphinx must be older than its traditional attribution of 2500 B.C. In fact, the well-known geologist Farnuk FI-Baz has suggested that the Great Sphinx is nothing more than a vardang-a natural erosional land form, essentially a wind-shaped hillthat the Old Kingdom Edyptians mereby "dressed up" to look like a Sphinx. But El-Baz's vardang hypothesis is untenable, because in order to carve the Sphinx's body, the ancient Egyptians had to dig a ditch around it-the Sphinx enclosure, which is clearly artificial and manmade. Moreover, substantial evidence indicates that the Egyptians used the blocks removed from the Sphinx ditch to build the temples in front of the monument.

Seismic investigations conducted on the floor of the Sphinx enclosure sugnest that on the north, south, and east sides (the Sphinx faces due east), the rock has undergone considerable weathening, from the surface to a depth of between six and eight feet, atmospheric moisture has made the rock more oprous and naused some mineralogical changes. Along the back or west end. the identical limestone has weathered to a depth of only about four feetcompatible with a date of about 2500 B.C. If the Egyptians had carved the entire body of the Sohim; out of natural bedrock at one time, the limestone surrounding it should show the same depth of subsurface weathering everywhere. The data we collected indicates that initially only the sides and front of the Sphinx were carved free of the rock, white what would later become the back or rump originally merged with the natural rock. If the back end dates back to about 2500 s.c. and the other three sides exhibit about 50-percent to 100-percent more weathering, then they are probably at least that much older than 2500 B.C. dating the Sphinx's core body to about 5000 B C. The selsmic data is corroborated by the precioitation-induced weathering patterns evident on the Sphinx's body and the

Sphinx enclosure.

In October, I presented my Sphinx work at the Annual Meeting of the Geological Society of American in San Discociagod Society of American Information of the data. Much to my reflect, no one found any errors in my work in fact, many colleegues, infingued by the research, suggested that I call on them

if they could be of assistance.
My research on the Sphinx continues. Dobecki and I hope to gather more substrace geological and geophysical data, and I plan to continue my stratigraphic, weathering, and geomorphologic studies in the Siza Plateeu ar-

physical data, and plan to continue my existing public, women and an open public ticles from outer space, like protons and neutrons, that constantly bombard the atmosphere. As these particles collida and interact with atoms on a rock surface, they produce numerous new isotopes, and in some cases, the accumulation of these isotopas reviseds when a rock surface was initially exposed or, in this case, careful.

Finally, I hope to exerch Egypt for the remains of other major structures built back in 5000 B c. by the same enterprising Egyptians who constructed the manvalous, enduring Sphinx. I predict that we'll find them buried under the notonius Egyptian sands and Nite sits. The concept of an older Sphinx could herald the beginning of an exciting new ear in this situry of anower Egypt. DO



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MYSTERY

CONTINUED FROM PAGE 40

reads The World Book Encyclopedia and remembers everything ") Indeed, at Murphy's dosk, he has The Oxford Companion to the Mind. The Ounterson. tial Dictionary, and both volumes of the Great Books of the Western World Complete Works of Shakespeare to keep him company. But Murnby is hardly a reclusive bookworm. He is spirited and vigorous and has the voice of a creat radio personality. Murphy writes short stories, loves philosophy, poetry, and "the Graham-Greene-type writers, who, whether or not they can figure out if there's a God in heaven, always leave room for the possibility of grace in life" He is also a devoted fan of the

Writer and set designer Trace Beauteul is an actor, engineer, and antit who playe the parts of Crow and Dr Cayter Fornesser or MSTAS. Beaulieu has a brong carried about the mere processes, mere workings of away thing from strokleigh of the followood "system". No doubt the mellectual bent helps him porties was the reflectual.

al, the mad and perversely visionary Dr. Clayton Forrester. Beautieu is multitalented /"the Bonaissance man of comedy," says Netson) and remarkably modest-green by Best Brains' rather stringent standards Like Crow whose antenna-like "ears" give him an appearance of being fiterally tuned in. Beautieu has a duick responsive, playful mind that ricochets at great speed from one association to another It's easy to see how Crow comes by both his endearing qualifies (Beaulieu says part of the characterization stems from his early experience as a youngest child, competing for family attention) and the more mischievous qualities one sees in the bot-bird's restless and deeply recessed ping pong-

hall eyes. Michael J. Nelson, the show's head writer, also composes music for the show and has appeared on MST3K in a wide variety of special "quest appearances"-as Michael Feinstein, and the Amazing Colossal Man, among others Nelson is a talented actor, a gifted musician. "I was pretty nainfully shy when I was a kid, and music was the first thing I was able to perform without being too afraid of it," he says. And he's a very funny writer, with a penchant for dark surprises. "He will write those work derful little things for the childlike play that the robots do, and then suddenly he'll bring out something deathly and dark from these guys, almost always at

a very strange time," Murphy says. "For instance, Joel asks the robots what they want for Christmas, and Mike has Crow say. "I want to decide who lives and who, "I want to decide who lives and who, thes.""

Frank Conniff is a writer and a talented stand-up comedian who, in his portrayal of "TV"s Frank," comerbow manages to look lifte a combination of a sneering Billy idol and an eager member of a latter day Little Rescals Born and raised in New York City, he is the only not Midwesterner at Best Brains. Since Conofitie a man of four time it.

and raised in New York City, he is the only non Midwesterner at Seet Brains. Since Corniff is a man of few bat always-well-Chosen words, well give him the last word on the MST spirit. He says, "The saying that maybe sums up the affitude of the show best for me as the one the bots usor frequently." Bite me, bite me, if it fun. "You know, the bots don't lest it snryway to me, that implies, 'Hey, if you're getting see up-thailt or too self-conscious or too eerithing to out that or too self-conscious or too eerithing to out.

€It's like
Mystery Science is
Groucho
Marx to the movie's
Margaret
Dumont, and the
movie

just doesn't get it. 9

cus about it ali, just cut loose a liftle—
bite me, it's fun."
Since it's beginnings, MST has prov-

en to be "The Little Spaceship That Could." Now, Joel, the Bots, the Mad Scientists, and the Crew seem poised to make the quantum leap to media justs speed.

This past January, MST3K principals met with Brandon Tartikoff of Paramount Pictures about a possible film version of Mystery Science Theatre, Since then, the group has been struggling with the gravitational pull of some 200 pages of proposed contract language We're getting closer, but we're not sure we can get what we need to preserve the spirit of the show," Mallon says. "Naturally, they need certain things to protect their investment. But the question remains. Can we figure out a way that we both can get what we need out of this? We're protecting something we hold very dear. If we can work it out with Paramount, great, otherwise, we may do the film ourselves or

find some other way."

On the wall behind Mellon are blueprints for yet another major projectthe planned constitution of a mice comic productor pad for the Beet Brans sociosate. The reason for building a schoole instead of the planning stages, shows instead of just one. Elecular, Hodgson, and Murphy have other leevision projects in the planning stages, and Mystary Seamod Theater has potential development doals with HBO and Universal Television.

"It used to be that our problems were figuring out what the show would be about, what the set should look like, how to pay the bills." Malion says. "Now, the toughest stuff is about our future. Our fans are writing in, "Are you going to sell out?""

Well now, this should provide still more suspense and mystery for Mystery Science fars overywhere. Loyal Mistes Will have to watch the TV slees for the answer's to these burning questions. Can our heroes resist the mind control of the bi-crossitel cyborgs? Can the Satellite wade the star destroyers of the Evil Emre? Can Best Brans continue to one

where no corrections have gone believed. They have containly shown their mattile thus far. They've not only endured, the full star. They've not only endured, the contained the contained the contained on parative isolation of both-Memeotra, vertable media ice planet. They we shared to flush place they were which may exceed the comprehension of your average Venusian stag. And they've commandement praise and production vessels white requising flatterers and protion power-lightness.

There is surely good reason for hope. But all we can say is, "Stay tuned, Misties." And may the Force be with them. (MI)

CREDITS

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TWO GUYS

Spanish, as soon as he had fully apneared. 'So you can talk," I said, in Spanish

also: "Where's your compañero? "It's his riight off. He's got a date " "And you're working?"

"it's my night off, too I just-uh-" He blushed "Couldn't get a date," I said. "It's all

right. I'm about ready to knock off anyway. There's a Bud in the refrigerator. Get me one too.

"You always work at midnight? Can I call you Teresa? "Please do Just finishing a couple of canvases. This is my big change. My

own show. I want everything to be just right. What are you looking for?" "A bud? "A Bud is a conveza" I said. "The top twists off. To the left. Are you sure you guys are from the future and not the

past?" (Or just the country, I thought to myself.) We travel to many different time

zones," he said. Must be exciting. Do you get to

watch them throw the Christians to the lions?" "We don't go there, it's all statues," he said "Statues won't fit through the Chronoslot You might have noticed. Stretch and I broke quite a few before

we quit trying. "Stretch?" "My partner Oh, and call me Shorty." It was my first positive illustration of the power of the past over the future

"So what kind of art do you like?" I asked while we got comfortable on the "I don't like any of it, but I guess paintings are best, you can turn them flat

Say this is pretty good cerveza. Do you have any roll and rock? I thought he meant the beer but he meant the music. I also had a joint, left

over from a more interesting decade Your century is my favorite," Shorty said. Soon he said he was ready for another petal

"Bud." I said. "In the fridge." "The cerveza in your century is very good," he called out from the letchen. Let me ask you two questions," I

said from the couch. 'Sure.' "Do you have a wife or a cirifriend back there, or up there, in the future?" 'Are you kidding?' he said. "There

are no single girls in the future. What's your second question?

"Do you look as cute out of that shimmery suit as you do in it?"

"There's one missing," said Borogove, checking off her list as the workmen unloaded the last of my paintings from the remed panel truck and carried them in the front door of the gallery. Other workmen were taking Bucky's grant tits and asses out the back door

This is all of it." I said. "Everything I've ever painted I even borrowed back two paintings that I had traded for

rent ' Borogove consulted her list. "According to the two guys from the future, three of your early paintings are in the Museo de Arte Inmortal del Mundo in

three they want. "Let me see that fist," I said. It's just the titles. They have a catalog with pictures of what they want, but

they wouldn't show it to me. Too much danger of Timespits 1 "Sips," I said. We looked through the stacked cenvases again. Lam partial to

portraits: "De Mon Mouse" was an oil painting of the super in my building, a rasta who always wore Mickey Mouse T-shirts. He had a collection of two. "Tres Dolores" was a mother, daughter, and grandmother I had known on Avenue B, it was a pose taked up from photographs-a sort of tampering with

time in itself, now that I thought of it. But "La Rosa del Futuro"? "Never heard of it." I said: Borogove waved the list. "It's on

hare. Which means it's in their catalog. "Which means it survives the holocaust," I said 'Which means they pick it up at mid-

night, after the opening Wednesday night," she said. Which means I must paint it be

tween now and then " "Which means you've got four days." This is crazy, Borogove."

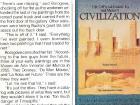
"Call me Mimsy," she said, "And don't worry about it. Just get to work. There's pickled begging in the nevers."

I said, in Spanish "I thought you were Puerto Rican," said Shorty

"I am, but my ex-boyfnend was Jewish, and that stuff keeps forever. "I thought there were no single men

in New York." "Exactly the problem," I said, "His wife was Jewish too." "You're sure I'm not keeping you

from your work?" said Shorty "What work?" I said forlornly I had been staring at a blank canvas since 10.00 p.m. "I still have one painting to finish for the show, and I haven't even



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started it "

"Which one?"
"La Posa del Futuro," I said. I had
the title pinned to the top corner of the
frame Maybis that was what was blocking me. I wadded it up and threw it at
the wall. It only went halfway across the

"I think that's the most famous one," he said. "So you know it gets done, is there a blossom..."

"A Bud," I said "In the door of the findgo" "Maybe what you need," he said, with that shy, sly, futuristic smile I was growing to like, "is a little rest."

After our little rest, which wasn't so little, and wasn't soxibly a rest, I saked

"This?"
"Go to bed with girls from the past.
What if I'm your great-great-grandmother or something?"

him. "Do you do this often?"

"I had it checked out," he said.
"She's living in the Bronx."
"So you do! You bastard! You do
this all the time."

"Teresal Mi corazoni Never before it's strictly not allowed. I could lose my job! It's just that when I saw those little hands and feet..."

"When you saw what?" He blushed: "Those little hands and

teet. I fell in love."
It was my turn to blush. He had won my heart, a guy from the future, forever. "So if you love me so much, why don't you take me back to the future with you?" I sested after another tittle.

rest.
"Then who would paint all the paintings you are supposed to paint over the
next thirty years? Teresa, you don't understand how famous you are going to
be. Even I have heard of Picasso, Michelangelo, and the great Algarin—and
art is not my thing. If something happened to you, the Timeslip would

art is not my thing. If something happened to you, the Timeslip would throw off the whole history of art." "Oh. How about that." I couldn't seem to stop smilling. "So why don't you stay here with me."

"I've thought about it," he said. "But I' I stayed here, I wouldn't be around to come back here and meet you in the first place. And If I had stayed here, we would know about it anyway, since there would be some evidence of it. See how complicated Time s? I'm just a delivery guy and it givest me a head-ache. I need another leaf.

"Bud," I said "You know where they are." He went into the kitchen for a cerveza and I called out after him: "So

He went into the kitchen for a cerveze and I called out after him: "So you're going to go back to the future and let me die in the coming holocaust?" "Die? Holocaust?"
"The one you're not allowed to roll."

"The one you're not allowed to tell me about. The nuclear war,"

"Oh, that. Stretch is just trying to alarm you. It's not a war, it's a warehouse fire."

iouse fire."
"All this mischigosch for a warehouse re?"

"It's cheaper to go back and get the stuff than to avoid the fire," he said. "It all has to do with Timeslip insurance or something."

The phone rang "How's it going?"
"It's two in the morning, Borogove!"
I said, in inglés
"Please, Teresa, call me Mimsy, is it

"Please, Teresa, call me Mimsy. Is it finished?" "I'm working on it," I fied "Go to

"Who was that?" Shorty asked, in Spanish "La Gordha?" "Don't be cruel," I said, pulling on my T-shirt and underpants. "You go to

€"De Mon Mouse" was a painting of the super

in my building, a rasta who always wore Mickey Mouse T-shirts, He had a collection of two. 9

sleep, too I have to get back to work'
"Okay, but wake me up by four. If I
oversleep and get stuck here—"
"If you had oversleept we would already know about it, wouldn't we?" I
said, sarcastically But he was already

"I can't put it off for a week!" said Borogove the next day at the gatery. "Everybody who's anybody in the downtown art scene is going to be here to morrow night."

"But . "
"Teresa, I've already ordered the wine"
"But . "

"Teresa, I've already ordered the cheese Plus, remember, walever we self beyond the three paintings they're coming for is gravy. Comprende?" "En inglés, Borogove," I said. "But what if I don't finish this painting in

time?"
"Teresa, I inset, you must call me Mimsy, If you weren't going to finish it, they would have arranged a later pickup

date, since they already know what will happen. For god's sake, girl, quit worrying. Go home and get to work! You have until tomorrow night."

"But I don't even know where to start!"
"Don't you artists have any magina-

tion? Make something up!"

I had never been blocked before. It's not like constitution, when you're con-

stipated you can work sitting down I padded and paced like a caged lion, staning at my blank carvas as if II were trying to get up the appetite to eat if, By 11:30 I had started it and painted if out six times. If just didn't feel

Just as the clock was striking midnight, a column of air near the sink began to shimmer and ... but you've seen Star Track Shorty appeared by the sink one heard begins like had.

sink, one hand behind his back "Am I glad to see you!" I said. "I need a clue" "A clue?

"This painting 'La Rosa del Futuro.'
Your catalog from the future has a picture of it. Let me see it."

"Copy your own painting?" Shorty said. "That would cause a Timeslip for sure."

"I won't copy it!" I said. "I just neèd a clus. I'll just glance at it." "Same thing. Beeldes, Stretch carries the catalog. I'm just his helper."

the catalog. I'm just his helper "
"Okay, then just tell me, what's it a picture of?"
"I don't know, Teresa"

"How can you say you love me if you won't even break the rules to help mo?"
"No, I mean I really don't know Like I said, art is not my thing. I'm just a delivery guy Besides—"he blushed "You know what my thing is "
"Well, my thing is art." I said, "And "And"

I'm going to lose the chance of a lifetime—hell, of more than that, of artistic immatshidad—if I don't come up with something prefty soon." "Toreas, quit worrying," he said: "The painting's so famous even I've heard of

it. There's no way it can not happen. Meanwhile, let's don't spend our last" "Our what? Our last what? Why are

our what? Our lass what? with your hand behind your back?"

He pulled out a rose. "Don't you understand? This Chronolink closes forey-

er after the pickup tonight. I don't know where my next job will take me, but it won't be here." "So what's the rose for?" "To remember our --- our ---." He

burst into tears.

Girls cry hard and fast and it's over
Guys from the future are more sentimen-

tal, and Shorty cried himself to sleep After comforting him as best I could. I pulled on my T-shirt and underpants and found a clean brush and started pacing again. I left him shoring on the hert, a short brown Adonis without even

a fig leaf. Wake me up at four," he mumbled.

then went back to sleep I looked at the rosa he had brought. The roses of the future had soft thorns; that was encouraging. I laid it on the pillow next to his cheek and that was when it came to me, in the form of a whole picture, which is how it always comes to me when it finally does (And it always does.)

When I'm painting and it's going well, I torget everything: It seemed like only minutes before the phone rang "Well? How's it going?"

"Borogove, it's almost four in the morning "No it's not it's four in the atternoon.

You've been working all night and all day Teresa I can tell. But you really have to call me Mimsy "I can't talk now," I said "I have a live model Sort of:

"I thought you didn't work from five models

This time I am." "Whatever, Don't let me bother you while you're working. I can tell you're getting somewhere. The opening is at seven. I'm sending a van for you at six." "Make it a limo, Mimsy." I said. "We're making art history."

"it's beautiful," Borogove said, as I unveiled "La Rosa del Puturo" for her. "But who's the model? He looks vaguely familiar 1

"He's been around the art world for years and years," I said

The gallery was packed. The show was a huge success. "La Rosa." "De Mon Mouse" and "Los Tres" were already marked SOLD, and SOLD stickers went up on my other paintings at the rate of one every twenty minutes. Everybody wanted to meet me. I had left Shorty directions and cab fare by the bed, and at 11:30 be showed up wearing only my old boyfriend's trench cost, saving that his shimmery suit had disappeared into thin air while he was pulling it on

I wasn't surprised. We were in the middie of a Timestip, after all

Who's the barefoot guy in the fabulous Burberry?" Borogove asked "He looks vaquely familiar

"He's been around the art world forever and ever," I said. Shorty was looking jet-lagged. He was staring dazedly at the wine and

cheese and I signaled to one of the caterers to show him where the beer was

kent in the back room At 11:55. Boropove threw everybody else out and turned down the lights. At midnight, right on time, a glowing column of air appeared in the center of the

room, then gradually took on the shape of ... but you've seen Star Trak It was Stretch, and he was alone. "We are—uh—a ouv from the future.

Stretch said, starting in English and finishing en español. He was wolpbling a

"I could have sworn there were two of you guys," said Borogove "Or did I make that up?" she whispered to me, in inclús "Could be a Timestin," said Stretch.

He looked confused himself, then brightened "No problem though! Happens all the time. This is a fight pickup, Only three paintings!"

"We have all three right here," said Borogova, "Teresa, why don't you do the honors. I'll check them off as you hand them to this guy from the future. I handed him "De Mon Mouse." Then "Los Tres Dolores." He slipped them both through a dark slot that appeared in the air

"Whoons," Stretch said, his knees wobbling. "Feel that? Slight aftershock." Shorty had wandered in from the back room with a Bud in his hand. In nothing but a raincoat, he looked very disoriented.

"This is my boyfriend, Sharty," I said. He and Stretch stared at each other blankly and I felt the fabric of space/ time tremble just for a moment. Then it

was own "Of course!" said Stretch, "Of course. I'd recognize you anywhere.

"Huh? Oh." Shorty looked at the painting I was holding, the last of the three "La Rosa del Futuro." It was a full length nude of a short brown Adonis. asleep on his back without even a fig leaf, a rose placed tenderly on the pillow by his cheek. The paint was still tacky but I suspected that by the time

it arrived in the future it would be dry "Reminds me of the day I met Mona Lisa," said Stretch. "How many times have I seen this painting, and now I meet the guy! Must feel weird to have the world's most famous, you "He winked toward Shorty's know

crotch "I don't know about werd," said Shorty "Something definitely feels funny." "Let's get on with this," I said. I handed Stretch the painting and he pushed it through the slot, and Shorty and I

lived happily ever after. For a while More or less . But you've seen I Love Lucy DO



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INTERVIEW

communicate? Rosenthal; in every way Artists are working with commuters and wrien. That a proposal to work with seismological instruments that are in place all over the world. The sky's the Irmit! Whatever soence and technology has to offer in creating a collaboration concerning metaphor and statement should be explored Omni: Why is there such an effort to get the 'theory of everything" and boil it

down to one equation? Rosenthal: I wonder if that can ever happen, you know? Because everything does hold together obviously, because the universe holds together. The human brain cannot grasp that oneness and unity because we live in a world of levels and scales. Maybe people will be able. to find that equation; they're working hard for it. But even if such a thing is found, there will never be certainty that it's correct because there's just too much we don't know. As long as we don't know what happened before the Big Bang, we just have to accept that we won't know everything. This is hard for human beings to accept, but it's what keeps us searching

Omni: Are computers capable of having a soul, a consciousness—a mind? Rosenthal: Since civilization began, peonic have longed to create intelligent objects. There's the myth of Galatea, the Golem, Frankenstein, Now technology makes that myth possible. I'm a bit of an animist. I think everything has a what type of souls, and what decree of

Omni: "Rachel's Brain" begins with a quote by Arthur Koestler that the evolution of the brain not only overshot the needs of prehistoric man, it is also ev-

olution's only example of providing a specles with an organ it does not know how to use

Rosenthal. There is something in the genotic structure of our brains that created a total imbalance between object making and our ethical sense. So we've developed this attitude that if it's there, it has to be examined, used. If one can do it, it cught to be done. This is the scientific view, and we came to it not as a quirk of history, but because of the way our brains are shaped. And so we muddle on in our evolution

Omni: Your most recent piece, "filename: FUTURFAX," addresses the real possibility of planetary extinction. Are we headed for the final crash?

Rosenthal: I believe so. When working on the piece, I was continually sobbing and feeling absolutely depressed by and frightened at what I was saying. I see such social upheaval coming un that even if there is no ecological crash, as I think there will be, and humans do survive, we're going through dark ages that will probably decimate a huge percentage of the human nonulation If this happens, survival will be

Omni. Your personal hope, you've said, is that four-fifths of the human race will be destroyed. Why? Rosenthai: Because our uncontrolled proliferation is at the root of all the calamities that befall us and the rest of

Earth's creation. In another peneration we will hit the 10 billion count, with no hint of reversing the trend. Resources. habitat, and species will have been decmated to make room for us, our food, and our habitat. As Daniel Quinn says. we take the entire world as our ecological niche. That's an outrage, and I, for one, don't want to live in such a world, because I can't bear to see this extraordinary planet lose its wildness and become a human cybernetic machine as it will be if humans prevail. There won't be anything left of what we call nature

The salmon is going, we've prevent ed it from owning its habitat. There are almost no rivers left, they're completely dammed, corseled, and engineered to the point that the normal working of an eco-system can't function. Yet we continue fishing the rivers like crazy. This is one of many examples. You're going to have a planet with nothing remotely resembling original nature, everything has been managed and re-

created by humans Omni: Why do we continue to do this? Rosenthal: Because there are so many of us, and because we're always finkering. We always want to do things bet-

ter than the gods Omni: Unless a complete change in our thinking occurs, will we be headed toward the total crash you describe in "fename FUTURFAX"?

Rosenthal: We are coming to the dissolution of everything we believe in because of an abstration in our thinking. not because of technological proliferation. The atom bomb, pesticides, clear cutting-these crimes don't exist in a vacuum. They exist only because we see ourselves in relation to the cosmos as the apex of evolution. Given this kind of thinking, it's no wonder everything is falling apart and dying

The concept of progress is one of the based on an erroneous premise. We're saving. 'Oh look what we've created:



"Sarry, but this is where Budlong wanted his ashes scattered."

how wonderfull!" We have more and more things doing more of our work and these things are achieving more of what we want to achieve at the price of a nlundered and degraded planet We are so disturbed, addicted, guilty, and anxious. We are emotionally bankrupt, sick in our souls. We don't understand our place in the universe, that we're not exempt from the laws of nature. We cannot continue to see ourselves as having license to eradicate anything that does not directly feed, entertain, or make us richer. Every pore of consciousness existing in the community of life knows how life works, except us. Life, or whatever this big consciouspess is, will begin to fight us because we're fighting it. We've created an adversary in nature instead of being embedded in nature

Omni: What about the beauty of life, the simple pleasure from just being alive? Rosenthal: These are still very potent, making it even harder to conceptualize the reality. People are in denial, just as when they find out they have cancer. We're just beginning to have an inkling it's malignant. We're like people during the Black Plague, all those revelers dancing around the bonfires. It will take anough of a disaster that every person is touched by it. Most people don't see that, except for prophets and artiststhey have enough imagination and are willing to use it no matter how painful. There has to be a twist in consciousness with more emphasis on the philasophical, the ethical, and spiritual and away from materialism and greed. Omn: How do your workshops help peonle overcome their fear of success, of ndependence?

Rosenthal: People have different backgrounds and personal histories, but twir problems and needs are amazingly slike. They all have this thing about "How do I put out who I am? How do I on past the barrier preventing me from being me and from expressing this parficularity?" That's the big issue for a human in society. Because we're forcibly socialized as children, and society is so effective in its dictates, most of us succumb to that. The other stuff is always there, festering inside and making us sick because if wants to come out and be what it is Social and individual are always in conflict. People are afraid that being themselves is not acceptable and may hurt others. When you repress for so long and so much, you begin to suspect that what's in there is virulent. The repression creates anger, rage-the resentment that can't come out. Naturally people are afraid if they open the door what will come out will he this monster who will on on a ram-

page and kill everybody.

of Earth

in my workshops I try to release that monster to art making, where the violence, aggression, and anger don't really occur in so-called real life. People can release those things in ways that show them what's in there is not so terrorizing and terrible. It's okay to begin to release in small doses at first; then give it form. Art making is about gwing form, and this is the trick. So long as it's formless, it's frightening, and you can be panic stricken about releasing this huge amoeba that's going to swallow everything. But the more people get past this barrier, the more they are on the same wavelength with Earth's own creativity. We must become artists and let out this creativity urde or force, because this puts us in that same vibration, energy field, as the creative aspect

Omni: What is our place in the cosmos? Rosenthal: We are capable of working with all nature to exist in a world with room enough for all to live peacefullyand by all, I mean all species not all humans-and with the understanding that evolution doesn't stop just because we arrived on the scene, we are capable of seeing, experiencing, and understanding, what is, so far as we know. unique on our planet and in our solar system. Our music, art, and literature are many degrees more advanced of what other animals are capable of creating. That doesn't give us leave to eradcate them, exploit them, or eat them I don't think we really have a "place" in the cosmos. We have the same place everybody else has on this planet. We have to compete without exterminating everybody else. We must use what evolution has given us-immeasurable treasures in dexterity intelligence, and canabilities of all sorts-in ethical and conscious ways that do not eliminate eventhing else

Omm: What is consocusness? Resentible. Consocusness is a gift We've laught curselves we're he only the consocusness is a gift we've laught curselves we're he consocusness of all creation we've consocusness of all creation we've consocusness of all creation and consocusness of all creation is good and back creation and destruey ing its whole human race has gore back properties of processing and all of Auriera and very sudders will consocusness count save us if everyone realized the bag cause of globics insoconmission that course of social mission countries of the consocusness of course of globics insocon-

why I'm rather pessimistic

Omni: Are the gods laughing at us?

Rosenthal. I hope so I'd hate to think
they were on our level of angst DO



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GAMES

MOVING RIGHT ALONG: Neat new ways to get from here to there By Scot Morris

Just in time for summer. three inventors have come up with innovative new muscle-nowered devices that may revolutionize the

way we exercise and play. Exercippees put a new bounce into loaging. They resemble ski boots attached to an elliptical spring consisting of two arched pieces of plastic. Jog with these on, and you'll find vourself taking long, loping strides. As you strike the around, the springs collapse, bringing your foot down close to the pavement, then they bounce you

back up into the air for the next stode Gregory Lekhtman invented Exeriopers as a way to ease the shock of running The impact with the road. which normally jolts the knees and skeletal system. now is absorbed by the muscles, which increases the level of exercise," he says. Russian emigre Leichtman, an electronics engineer and inventor of a variety of medical, electronic, and fitness devices who now fives in Montreal, says that his bouncy books can lengthen your stride to six or seven yards, meaning you can cover more around With Exeriogers, some

people, he claims, "run un to fifty percent faster can't quarantee any increase in speed, but the boots do give you a cushioned landing and send-off. After a five-minute lone. I felt like I'd heen working out for 15 minutes. Afterward, my old running shoes seemed flat.

(Cost \$199, Order accord-CNRIL

weight from 800-752-8080.) Spakehoard Imagine a skateboard with two platforms that pivot independently, one for each foot, connected by a contral crossbar. This variation on a familiar theme is a Snakeboard, the most radical change in skateboard design in the next 20 years. It got its name from the way a nder moves to make it go-twisting the feet together while rotating the

shoulders. The movement

using the two-foot moves of downhill skiers or snowboarders. Many trials and crashes later, he introduced his first Snakeboard in South Africa last summer, seiling more than 2,000 in the first four months Encouraged, he introduced the Snakeboard to the United States last December on the boardwalk at San Diego's Mission Beach, where rollerbladers and skateboarders gawked along with the rest of the crowd. Fisher licensed his design



Exerippers (top), the Snakeboard (above), and the monotin (bostom) put a new spin on jogaina, rolling, and swimming

looks fike a controlled version of the Sixties dance called the "Mashed Potato," It takes practice, but a skilled rider can generate even climb hills without ever dronging a foot to the ground. Inventor James Fisher claims to have topped 25 miles per hour Snakeboarding over a flat

surface White a high-school student in Johannesburg. South Africa, Fisher dreamed of a skateboard that he could maneuver safety down steep hills.

to Snakeboard U.S.A., and

it's now patented in 23 countries (Cost: about \$149. For ordering information, call 800-547-0775) Honertin In the late Sixties, fin-swimming made its debut as a sport, offering a speedy alternative to conventional swimming. But

today the fastest swimmers use a monofin-a single giant fin resembling a dolphin's tail, propelled by both feet at once using the dolphin kick familiar to butterfly swimmers.

Scuba-diving equipment provided the models for traditional swim fins, but biomechanical research produced these fins specifically designed for swimming They increase speeds dramatically. The current freestyle record for 50 meters stands at 21.81 seconds, while the monoting record is 14.90.

Penno Biscarloi, a winner of fin-swimming competitions as a teenager. designed his first monofin in Italy in 1976 Now living in Del Mar California he mins Hyperfin, the United States'

only mass producer of monofins. He recommends his

monofin as a conditioning tool-expect to burn 1,200 calones per hour in a workout-and as a break from the monotony of swiniming laps. The activity exercises the lower body. since you keep your arms stationary, pointed straight forward above your head Although it may sound a little awloward you swim up to 25 percent faster than ever before with maneuver-

ability to spare. (Cost. \$150 to \$175. For information, call 619-634-0629.1 DO

