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will but you on the path to a centered life 32 Earth

By Steve Nadis Of course we care about the freedom of our neighbors in Eastern Amazon deforestation but how can we when most of us don't know where these

places are? A new globe may help us view the planet as an entity; not as fragments

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Confinuum Italian reporters, armed with their bot cappuccinos, prepare to cover a local newsbreaking story on the dinosaur extinction. striking up conversations with strangers could lead to a brawl 'My, what small headlights you have"; and before the one you love runs away, make sure he has an ID. implanted in his shoulder

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Fiction. The Power and The Passion By Pat Cadigan

Mr Soames loves his work. He believes in the righteousness of his assignments, tackling them as if he were on some kind of bizarre religious crusade. But in the end, can he justify his deadly actions?



FIRST

By Fang Lizh

The Chinese leaders adopt only those scientific frecies that act as tools for their own power-technological and infiliary affairs—but they reject the influence of science's spirit and method.

**The Chinese leaders adopted in the control of the chinese frequency in the control of the chinese frequency in the chinese f

Before the June 4 massacre in Trensmen Square, many of my foreign media would ask me. "Why do so many students who support the pro-demonracy movemed in China, come from fields of solentific study? And thow does complone for yourself an astrophysicals begoins locked a desided, a disciple displaying the common of the common and the common students of the common the common of the common the common of

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leady freedom, and human rights. For many centimes the key to social order in China has come from an adulty to maintain a society of one mind. The leadings of the ancien Chinese pratics opher Confuctus say that at his man harms recesses the same enborri. moral genee Plased on these wearings, Onliness (advant believe that each middeduct can be taught of this existly alive. To establish uniformly drope made deless throughout the spatialists thought to preven chose from sectioning within this goodly in other weeks, and Chinese people are timely discouraged from developing register throught from developing register throught.

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CONTRIBUTORS













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Western science and Eastern mysticism are converging," says. Orner associate eather from the certain section of
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St. Object in the Cessive super Program Indeed, R. Activeley reports that selfsyled gour Barn Dass, for compty, alternates between using the Chosen Eastern name and the given Western appellation.—Birthard Alpert—offers with infloational times to two celebrities which are the companies of the companies in the companies of the companies of the hird was a procedure another gives. PHI Donative. 114, Phys. They boy hot is relief. 114, Phys. They be talkBob Berger ("The Road Warrior," page 62) holds a fourth-degree black belt in karate, which he studied for 20 years before embarking on his inner journey to find chit; the harmony of mind, body, and split. A playwight and where of the 1988 Eugene O'Nell Award, Berger has held a warety of jobs,

Award, Berger has held a warety of jobs, ranging from cabditiver to stockbroker. Mark Teich (Mind, page 22) has written for Health and American Health megazines. In college, Teich discovered that the Eastern masters' exercises to create mind-body unity helped to stem the pain he experienced from a hermatted disk. Those "certaining".

techniques also helped him win a host of collegiate Ping-Pong tournaments Jane Bosveld (Interview name 74) who spoke to anthropologist Alfonso Ortiz. has been inferested in the plight of Native Americans since high school when she and her family moved from lows to South Dakota's Black Hills, land of the Sioux Indians. "The symbolism of the Berlin Wall nales in comparison to the walls we have used to socially barncade and trap Native Americans" says Bosveld, coauthor of Control Your Dreams (Harper & Row), "But perhans even sadder than our historical domination is our own ability to ignore the consequences of our actions

Lloyd Chrein (Space, page 18) doesn't seek the upward mobility of space living. "I would have a hard time in any environment with less than the earth's gravity," says the managing editor of New York Habrat, a trade magazine for mambers of New York co-ops and condos. "Zero gravity can turn your muscles to jelly, and you have to exercise eight times as much to keep yourself from becoming a blob."

Sowo Nadas an author of books on solar energy, ruipaer power, and the arms race, first met artist from Yan Sart Island and the arms race, first met artist from Yan Sart Island In Sart Island In Sart Island In Sart Island In Sart Island Island In Sart Island Isl

cheems, 'swys Nada's Scance-fiction author Pat Cadigan has long been tescrised by both wompries and sensi Allers combridge the Nada Scance fiction and the Nada Scance first the Nada Scance first and the Cheek Scance from all the other stores I've written cadigars' first nevel, Androphysies (Bartam Booke), was a finalist for the Philip K Dick Award Bartism will publish hat second novel, Symens, the fat Nada Scance for the N

won the 1989 World Fantasy Award

Collection (St. Martin's Press) DO

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LETTERS

Social Medicine

The news media are saturated with articles on AIDS, but your article "Phoenix Rising" in the December 1989 issue was one of the best and most thoughtprovoking articles I ve read on the AIDS epidemic Congratulations to Linda Marsa for cutting through the plethora of information and succinctly and humanely summarizing the backdoor. positive impact AIDS has had on society.

Sign Language

I congratulate Dava Sobel for the impressive article "Dr Zodiac" (Decem ber 1989]. It was informative, lucid, and totally open-minded in its coverage. One minor fact is in error. The professional astrological community is committed to ongoing scientific research through such organizations as the National Council for GeoCosmic Research and the International Society for Astrological Research, Membership exceeds 3,000, and findings are published semannually.

Jamie Binder Chicago

Whose Body Is It Anyway?

Kudos for Buth Borgman's "The Body Snatchers' [Continuum, December 19891, about how the medical establish ment tries to seize control over our bodies. A major part of that campaign is to stille free speech about health matters. An informed public, alerted by muckraking articles such as this, can help us maintain control over our own hodies. Keep up the good work

Jne Samuelson Marina del Rev. CA

Even as a fanatical proponent of individual nohts. I was absolutely flabber gasted by "The Body Snatchers" Borgman clearly feels that parents should have the right to deny their children qualified medical help and use them as guinea pigs for highly questionableif not outright deadly-treatment

programs. Our society has a definite moral obligation to see that children get the best modern medicine has to offer A child's note to life far outwerchs a parent's right to risk the child's life with potentially deadly treatments

Edward Napieralski

Physician, Know Thy Patient

Norman Cousins makes a good point in his December 1989 First Word Nurses have been doing just what he suggested physicians start doing, namely getting to know their nationts. A nurse's greatest tool is theraneutic communication to effectively diagnose and evaluate Perhans physicians should take a closer look at the nursing process and our

approach to patient care. Damiano locovozzi RN

Crimes of Passion I am amazed that such an "advanced" country as the United States tolerates censorship ("For Goodness Sake?" Forum, December 1989]. If we ban Stephen King's novels, then we should also ban history books, since they may induce people to act like infamous characters of the past. To make censor-

ship legal is more of a crime than defil-

society will truly exist.

ing the flag or creating "obscene" art. What will be next? Censorship of clothing or even ideas? Then the Orwellian Scott Jacobs Clifton Park, NY

I have enjoyed Stephen King's books, but his novels are not published at the taxpaver's expense. Your attempt to make public funding of objectionable (to some people) art a part of the First Amendment is more dangerous than Senator Jesse Helms's attempt to block public funding of the same. Artists 4ke Andres Serrano may exhibit their art wherever and whenever they choose but

Waveland MSDO

MOON UNITS

SPACE

By Lloyd Chrein

habitats had to be self-sufficient, serve some economic purpose (such as mining), and offer radiation shielding, internal and external transportation, and recreation. The onze, offered by a society member who had requested anonymity, was \$2,001 for each of the winners in three design categorieslunar base, Bernal sphere (a large. rotating cylinder), and free-form--but officials actually chose only two winners. According to David Brandt, a program director for the NSS, no first naize was awarded in the Bernal sphere category because none of the entries were true Bernal spheres

First prize in the lutal basic category wint to Chistopher Bart's more wint to Chistopher Bart's more develling. But if by robote sincy the germenters of bur cates. This collective society would house 800 people in two society would house 800 people in would start with only oncerater alianding base, then expert to make vary for satisface assembly solities. "It's much assert to launch salethles from the moon han from Earth because it takes less fuel to reach escape velocity," explains 801, and another from Austin, floasia Bart, an architect from Austin, floasia.

Bartz, an architect from Austin, Texas, The winner in the free-down calegory. The Asistroid Resource Colony, "designed by New York City architects Claudio Vetz, Raul Rosas, Wing Kin Leadown Connell, combines the economic received of mining with the economic processes of mining with the economic received of mining with the economic received of mining with the economic received and the process of the pro Inside these pods, some of the 14,000 inhabitants would fend gardens, raise liftesteds to study the universe Others would monitor robots working beneath the asteroids surface, mining metals and minerals, editacting water and producing marketable products such as rocket foel and steep.

The habitat would be constructed from asteroid materials First a mining and processing station, which might be core straped would and on the surface and begin burrowing. Wickers accorded and begin burrowing. Wickers accorded and steel which they would use to build four huge capsule shaped podds—ther horners. These would attach to the central station with steel stations and proposed by his provise strough booties, would slowly revolve strough the provise strong the provise strong the strong strong the strong strong

The colony would be a Shangr-Ia in space. Each capsule would have a different climate. Hopical, and, aquabo, or temperate—in which the inhabitants could grow all types of food and raise.



Orbiting abodes. High tech great views

fivestock: Fiberoptics would bring light in from outside the colony. Large elevators would run inside the steel lethers.

The colony's self-sufficiency earned it the prize "Asteroids are so distant that designs must stress self-sufficiency says Lidge John Spenger a Los Angeles architect and developer. But such capabilities are not implausible. Nuclear submarines are nearly self-sufficient and can stay underwater for several months." The design is not without flaws, supposted is very name," explains Veliz. who designs lobbies and office snace "But in forty to fifty years. I'm sure that advances in space technology will knock our socks off. What I have proposed is tike living in 1939 and trying to say what a 747 would look like Will we actually live on asteroids?

"Some may say it's far-out," states Leonard David editor in chief of Ad Astra, the National Space Society's magazine, "but not impossible" Adds Clark Chapman senior scientist at the Planetary Science Institute "It's not a crazy concept. We could see some If ind like this in our Hetme." Even with its boht budget. NASA hasn't ignored asteroids. "We've tried to understand near-Earth asteroid evolution, orbits numbers, distribution," notes Carl Pilcher director of the science division at NASA's Office of Exploration. "And we have studied the potential for resource utilization since the late Seventies. The question is whether it is practical to consider gathering these resources. It may not be." One drawback is that most asteroids are between one and three years travel from Earth

Whether NASA uses any of these uses, the NSS board calls the context a success, and Branch says the organication may hald another competition and year (if another wealth) period orders along). "Anytime you can got people throng about life in space, and other people considering about life in space, and other people considering those thoughts, you've won something." Branch concludes: "Once the inferest is there, the reality follows: "Once the inferest is there, the reality follows: "On

SELF CENTERED

By Mark Teich

s a student at Stanford University in the early Seventies. psychologist Gay Hendricks was crossing campus one day when he happened to pass a pottery class. He instantly became mesmerized by a woman working at a potter's wheel. She had a look of rant unwavering concentration, and her hands, shaping the pot, glided surely and effortlessly. Then he looked at the pot whirling fluidly at the center of the wheel. It was delicate. elegant, and beautifully symmetrical. The focus and harmony reflected on the woman's face and in the movement of her hands, he realized, were one with the pot itself. At that moment, Hendricks. recalls. 'S had a flash of awareness. If you're centered inside you create centered results." The incident inspired Hendricks to write three books on centering, the art of finding the psychological center of gravity within oneself and the world. For Hendricks, being centered meant finding a grounded, unshakable sense of self so calmivet so focused one can deal with any situation or strive toward any goal

According to Hendricks and Ilkeminded collegues, the methods for reaching this lofty porch are rocked in the so-called sacred philosophies, ranging from toga, Buddhism, and Taoism to the Eastern methal arts. Using breath corror, meditation, visualization, and movement these Eastern mystical traditions have long striven to achieve a state of mind-body unity, in which perfect inner balance results.

perfect inner balance results.

In the West, the centering movement has adapted these techniques to help us cope with the modern world. The result, a powerful new harmony between intellect and infutition, enhancing energy, confidence, and calim.

In the following pages, with the guidance of six experts in mind-body integration, we've developed a seven-day program to help you achieve minor basinos on Doy One, you will learn to relax through breath control. On Day Two, you will make the followingue of "emphyling," in which you clear your 20.000.

mind of detracting throughts and protons. On Day Three, you will go on to achieve a series of time! beliance Then, on Days Four, Five, and Six you will explore your niturities, gontaineous self through vessiblation. In mandals drawing, and Zen danco. Finally, Day Seven will help you unify both mind and body with your timesdate environment and the coanness at listes.

and the cosmos at large. Please membrace, events in though we be presented to a seven-day program, you may adapt the immig so that it works beet for you. We do not recommend completing the however, or thying to squeece all the exercises who precent all with thought and the present of the pr

Our consultants include Hendricks, who emphasizes breathing strategies



Inner balance. Harmonizing body and mind

based on Vipassana Buddhism; George Leonard, who derived his Leonard Energy Training program from the Japanese martial art aikido, teache Helen Palmer who conducts intuition training seminars based on the fessons of Buddhiem and Sufism, guru Sri Chinmoy, who leads meditation sessions at the United Nations and conducts hundreds of international sports compethors annually; best-seling author Shakb Gawarn, whose "creative visual gation" strategies evolved from a number of Eastern disciplines, and Sun Ock Lee, the foremost Western practitioner of Korean Zen dance

DAY ONE: BREATHING LESSONS Your goal today, mastering a technique known as belly breathing, which should be highly effective in helping you relax The belly breathing exercise below. adapted from Hendricks, will maximize the flow of covigen into your body by teaching you to breathe deep down in your diaphragm instead of high in your chest. To begin, either sit upright or he with your spine straight, this allows the greatest respiratory flow. Now relax a moment. Place your hands an inch. or two above your waist, your fingers extending across your abdomen below your rib cage. Inhale and exhale several times, feeling the abdominal muscles tense and release around and behind your navel. Now consciously slow your breathing, taking five seconds to tense the muscles and five to relax them Repeat this a number of times. Then rest about 30 seconds

Now close your eyes and feel your addomen with your hands. Preeshe in deeply, feeling your belly expand. Ther breathe out, feeling if fall and relax inhabitant and exhabition should be connected an asmooth, creuic pattern Keep breathing in and out slowly and deeply for several muritus, feeling in the deeply for several muritus, feeling in your hand enough, rest authority or a few moments.

Practice belly breathing once or twice a day during the program. Then use the technique whenever you want to decrease stress and increase relaxation. DAY TWO, EMPTYING

For big gards in centering, you must enter a meditative state in which you can patiently looks on your inner self. Toward that end, you will now master the technique of "emptying" in which you clear your mind of distracting thoughts and emotions. Once your mind is empty, you will be able to seek the guidance or hour somptineous in this self.

Before you begin, take a shower, or at least wash your face, hands, and feet. Then put on freshly laundered, light-

weight, loose-fitting clothes Now practice the helly breathing. exercise from Day One. When you are completely relaxed, sit with your spinal cord erect and continue to focus on your breath. Feel its continuous presence as it nees and falls against your abdominal wall and moves mitimeter by millmeter through your system. Breathe in as quietly and slowly as possible, so that if somebody placed a first thread in front of your pose at wouldn't burine Exhale even more slowly. Leave a firty nause (or even bold your breath a moment) between each exhalation and inhalation. This fixation on your breath will stop intrusive thoughts. Inevitably some feelings, impressions, or physical sensations will invade, but let them float away in the movement and rhythm of your breath. Eventually your thoughts

will stow to a few per minute. Now close your eyes and focus on the sensation of purity and emphrises. If you would fike a visual image to help you capture the sensation of emphrises, you may emission an unblamisted field of snow or an endless screen of soft white fight. Light the empfiness wash over you controllettly for several minutes.

DAY TUREE DAI ANCING ACT

Mastering breathing and emptying will give you the peace and silence you made for the bone marrow work of centreling—balancing your body and mind. To help you active with goal, Day Three taps an airdor-based guided imagery expresse adapted from George Loonard's Inner Energy Workout.

An hour or so before you begin your

Imagery existics a dispersion from Seint Leonard's Inner Energy Workout, An hour or so before you begin you session for Day Three, please have the instructions below recorded on a cassette tape. (You may record the instructions yourself or have them recorded on tape by a close friend.) Remember to have the reader pause.

where indicated Stand up and spread your feet at about shoulder width, setting into a strong and confortable stance. With your left palm touch your abdomen an inch or two below your navel—the physical center of your body. Pun your hand center of your body. Pun your hand center of your body.



Focus on a and feet all times with I PRUSE (POT HERTY SECONDS) When focus on your feedbring, Images your breath or a glowing ball of radient energy freewing from your mouth through your chest and and your absorbanal ocentry Lell your breath descend to the center of your absorbana, an in-tho or you believe your raised. With each inhalonor, the ball expands, reaching this not, the ball expands, reaching thom and to sade and to the very bottom of your pales. See Jour breath ghaving of your pales. See Jour breath ghaving

and stabilizing your stance. Now you will refease tension by shaking your hands hard in front of you, your wrists relaxed, until your whole horly vibrates. As you exhale make an extended yourst sound such as "aaaaah" so you hear the vibration in vous voice and feel it resonating in your chest. Now drop your hands limp in front of you, then let them float up as if in warm salt water. As your tranck rise. bend your knees slightly lowenna unurself into the warmth of the salt sea. Feel your buoyancy. Form a beach half with your hands and give it a gentle nuch armse the water's surface

push across he wells a sufferior surour your hands once more and their and our your hands once more and their and

IFANUSE BRIEFEY!
Breather sharply in as you rake and tripiten your shoulders. Exhibite and is them drawn the soft, warm chocolate feet them drawn the soft, warm chocolate feet the chocolate shouly insting down your back, shoulder Dados, army on hough to your disphagm, methang your hough to your disphagm, methang your shread grapes and police region. Feet the chocolate melting down your legs, but you know to you you know the same and the same of the same that the same and the same methang them and the grant of the state eithers of the same o

A few hours after the recording has been made, rebre to your foom and go through the belty breathing and emptying techniques. After completing thase warm-ups, play your tape. DAY FOURL THE INNER CIRCLE.

The circular drawings called mandalas (above and on page 28) have long facilitated self-discovery In Tibetan Buddhism, people focus on mandalas as an



aid in meditation and concentration.

Carl Jung had his patients draw mandalas so they could see their problems
from a broader perspective by projecting
them onto a universal from.

Many experts believe that the empty.

held of the mandala resembles a movie screen upon which your unconscious projects your inner file. As you express your inner self through the mandala, a new sense of balance can emerge. Balters you beguin this exercise, refite.

Before you begin this exercise, retire to your special room and do through techniques. Then take a piece of white paper, 12 inches by 18 inches or larger so you won't feel constrained. Lay a plate or a pot ltd atop the paper Outline the plate with a crayon, colored pencil, paintbrush, or any colorful drawing tool. Then take out the rest of your crayons, paints, or pastels, pick a color and draw something inside the circle. Spontaneously create anything you want. Immediately do two more manda las. Afterward, gaze at the patterns while thinking nothing. Don't try to figure out what they mean. The process of

creation helps you down the path to the unknown self.

DAY FIVE SEEK THE INTUITIVE SELF

Once you're feeling balanced, your search can advance inward the self. On Day Five you will learn to tap your rhutilive powers through an exercise adapted from infution expert Hellen Palmer. As you learn to focus your concentration and ewereness inward. Palmer sais, time in hift on will ecolate.

your erroneous impressions of the world To start your session for Day Five. go to your special room and practice belly breathing and emptying techniques. Then select a single situation, person. or event that you want to focus or Choose an image or impression to represent your choice and focus on it fully. Just be alone with the impression. forming as deep and relaxed a relationship with it as you can for several minutes. Become one with the image and with whatever c represents. As you repeat this process; you'll become much more attuned on a deep intuitive level to people, places, and things DAY SIX ZEN DANCE

Those who practice Korsean Zen Buddhem strike to keep the mind in a constant state of questioning. The name of this process is Yimbko. The quest for the time self. Sun Dok Lee, a lifeting is sometimed to the time self. Sun Dok Lee, a lifeting is sometimed the vocation and anoughout by othering Zen dance, in which the dancer questions himself with moving. This schrange between own when the dancer questions himself with moving. This schrange hemmonizes the mind and body, clearing away emerced and process and the leek sources of emerced and the mind in the leek sources of emerced and sentences.

The following exercise combines two main factors addominal breathing, which provides the energy and balance for each dance movement, and continual questioning, with which you can explice the inner pset ploquical resim

To begin, stand with your legs at shoulder with: Place both hands no your abdomen an inch or two below your navel Inhale, hold your breath a moment, then exhale slowly. As you inhale and exhale, leel your abdomen expanding and gradually relaying. After a two seconds, while exhalting relaying.

moment, then exhale slowly. As you inhale and exhise, feel your shoomen expanding and gradually relaxing. After a few seconds, while exhaling, rase your left arm slowly outward and slowly say. "What." ("Wha-a-d") Flammber your sodomnal center of gravity is powering your voice and your arm, which is floating as if on the wind. Inhale equan, slowly lovering your left, Inhale equan, slowly lovering your left.

arm to its original position. Repeat the whole process with your right arm, this time slowly pronouncing? "S' during exhalision. And finally, lift both arms at once during shallation with pronouncing is self?" These three words, known as a known, not only agrill your intention to seek your inner self but also serve as a menta to help your relax, breathe correctly and empty your mind. Do a smillar wern but who server but a mere to be a finally word in the control of t

Now you're ready to dance. Remorriber something delicious you are recently and transform that feeling into movement As you move, practice belly breathing Think of the breath from your abdomen as a power source giving you the energy to move. And as you move, feel that wonderful taste sulfuse your body-your hands, your arms and legs, your fingers and toes. Whenever thought or worry disturbs your concentration, your body will know, throwing you off balance Whenever you are thrown off balance focus on your breath and movement. Eventually, the taste will subside. When you feel emptied, recall that wonderful



taste and confinue to dence. As you dence, simily ask yourself, who as this dencing? When does this dance come from? Clese you eyes. Feet the power of your abdominal breath and the "thythm" of the tasts. Dence, moving in a perfectly centered way. As you move, you thist provided the properties of preference, coming closer to the well-spring of emotion within yourself.

to projection, out on the control of the control of

DAY SEVEN FUNNING TO THE SUM.

Our last excesse will enhance your inner balance by helping you connect with the camero. Please begin by Indiang with the camero. Please begin by Indiang with the camero and the camero of the cam

Alter five minutes, when you're warmed up, lurn your diterrition lotally to your body hythms. Estion to the consistency of your breathing and feel the solidity or your forefails, notice how your breath and feel, connected to the seme energy, play a relaxed, perfect beat logether Feel the rhythmic power in your beating fleam.

Keep moving, and keep looking at the ground. But now sount your eyes until everything around you is in soft focus. almost a blur. After about 60 seconds look up from the ground and open you eyes wide, letting the whole world in at once. Scan the sky, the trees, the horizon, but don't focus on any one thing Instead, see the entire scene merging in one canvas. As you move, visualize your exhalations carrying away all your inner toxins: see all weakness, fear, and meiancholy float into the universe each time you breathe out. Visualize each inhalation replenishing you-not just with air but with energy from the most remote comers of the Mrkv Way. Visualize yourself radiant with energy from the planets and stars. Feel yourself merging with the universe

We hope you have enjoyed these exercises. Feel free to use them when ifte knocks you out of kitter or whenever you wish to mershal all your resources in the course of daily events DO

SPHERE CAMPAIGN

EARTH

By Steve Nadis

or nearly two years Van Warren, a computer scientist at the Jet Propulsion Laboratory (JPL) in Pasadena, California, burned the candle at both ends, pursuing his dream of a "whole-Earth database." He wanted to compile data gathered by remotesensing satellites orbiting the earth so that he could view any scot on the planet, from any perspective, on his computer screen. His supervisors at JPL weren't sure why he was taking on this enormous project in addition to his normal responsibilities as a graphics specialist. His wife wasn't sure why he was doing it. He wasn't sure, either Then he got a phone call from artist Tom Van Sant "Suddenly I knew why I was

doing line." Warren sigs.
Yan Sant—a soujbor, envonmentalist,
and flutrist who lives in Santa Monica,
California—wanted to create a gaint
globe whose surface consisted of actual
satellite magee rather than arhistorenderings. He wanted, in other words,
a three-dimensional representation or
of what Warren was doing in software. The GeoSphere, as Van Sant calls it, would be a "Inving replica" of the earth as well as a lool for visualizing complex

global phenomena. In 1889 Van Sant formed the norprofit corporation Eyes on Earth to help frame the Googherse He recruited Warren to greate the technical chores and chanded a graphice supercomputer (plad for with the own money) for the effort NSSA eventually agreed to pay Warren's salary while he was working on the protect.

working on the project.

Why did an artist launch it project that
in many ways seems more the delling
of an earth scientist? "If I had found
someone else doing this, I would have
thrown myself behind them," Van Sant

says. But he didn't.
Van Sart's own inspiration dates back to 1967, when he was "blown away" by the first photographs of our planet from appoint elih hopes that his sphere will have a comparable effect on raising global consociusness." I believe that reternational peace, as well as good resource management, is dependent on

our planetary, or whole Earth, awareness as opposed to our everyday, flat-Earth consciousness," he says

Globes sold in department stores arent enough to do the job "Obles arent clots, deserts arent yellow, mountains aren't brown; Canada isn't gray," Yan al Sant says "Folks, it's time for reality. With our reality were going to perish Also.

reality is much more beautiful."

Approximating reality in this case is a daunting technical task, breaking new ground on all horse from assembling the large software distalsase to proceeding three dimensional projection bedringues. Despite all the technology involved in the project, the GosSphere according to Van Sart, is a work of art—a poutplural manifestation of the Gase phore propheres.

That theory, first advanced by James Lovelook, holds that the earth believes.

like a living organism
"It's the most valuable concept since
Bucky Fuller's Spacestrip Earth," Van
Sant says: "The difference is, we're not
passengers on Spacestrip Earth,
we're parts of the earth."

Many people have asked Van Sant why he has to build a sphere when he can do if all in software. He argues that "software can't approach the emotional impact of a pulsing three-ol image. If you don't have art, you don't have smotten, just information—like the words you hear on the evening invest.

Although global concerns such as the greenhouse effect and the corone hole are suddenly getting a lot of attention from the news mode, Ven Sant is not willing to wait and see whether people's attractes and responses will event ally casch up with the mounting threats to the planet, their fixes, and their filesylve. "To time for artists to do something people's properties of the properties of the properties of the seed of the properties of the properties of the seed of the properties of properties are the properties of properties of the properties of properties of the properties of properties pro

this artist to do something usoful." So what have Van Sant and Warren accomplished? The first GeoSphere, a seven and a-half-loot-diameter prototype, was completed in January The cost of the project to date has been about \$300,000. In the initial staye, Warren created the first whole-Earth database—



Globetrating: The world according to Van Sant, a dreamy artist with a realistic visit.

OMNI



APOCALYPSE THEN AND NOW

The latest press corps gallward cultion the mode over the face of Capitan, underso in secondary corp. In the capitant capitant in secondary corps, and the capitant capitant in the capitant brigated of consteas, a cotton in all capitant c

The leader of one group of scientists, Walter Alversor of the University of California all Berseley, had long arguad that the impact of a tremendous cornet or group of comets latted of the discousse. Mounting the countercoforniave was Garly partial of major volcarine activity. The theoretical combatterial had agreed to a blasteral sortice colouring samples of Cubban Intensioner deposits that hall within them claims to what activity may be a support of the control of passes ago and sendationally supported at these mities of places ago and sendationally supported at the same strike of places ago and sendationally supported at these mities of places ago and sendstation.

Aware chipped way at the not store and passed stands about a date of Subbarn torsion. One has the smill within the allowed Subbarn to the chip with the has been statum representing to Creations. Firstly, or classification, an event that though place shoot? Intrinsical the end of the age of consumer and the rear of the rear of the size of the chipsed shoot of the chipsed shoot of the size of the size

ets or volcanose alone hat caused the extentions. Ultradieby, it was a volcanose alone hat exertify alongshere that disablessly and enventage changed the course of evolution of protection of the protection of the course of evolution of protection of the course of the course of the course of protecting the course of the course of the course of the amounts of the course of the course of the course of the range of effects of a nuclear was there forecast. If the come this course of the course of the course of the course of the seasons of the course of the course of the course of the seasons of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the course of the course of the course of the seasons of the course of the seasons of the course of the cou

was superinated, and and ran-ential to that Culterity observing the world into the —belled down from the touccers provided to the control of the control of the control beliched algor of less so large that issued the ratio earth. Patter, for reasons that violance activity cused the "mass killing of plants and annuals, corating a goverhouse effect that produced an encoses of the deprece classus in these Any creature on land or annuals of the deprece classus in these Any creature on land or successful provided and annual grain was estimated. Whether the such activities were set and grain was estimated. The plant is the successful of the control opening the control of the control of the control opening the control of the control of the control opening the control of the control of the control opening the control of the control opening the control o

The dig at Gubbo was a paradigm of a spirit of cooperation and understanding. Two groups of scientists—each with reputations and grant more just stake—each register not to do batte with police and showle, she made had hoped. but rather to work together to decover just what it was that the property of the property of the property of the property of property of under the property of the property of the property of the and official to translate. "Avenue says: "Whe exacting for more complicated, sophisticated anniwers."

We, too, should dole more carefully at the official profilemen that threaten to destroy our world—oppulation growin, lood and energy production, pollution, devestation of the rear forest. List the scientists who gathroad in Gubbon on the prople from all instances and all desciptions must come together for devise more complex, rational, humanie solutions to the profilemen at learn'd What teoppriets to the discharge can hopper to all the profilements are all the prof

COULTINII II IOO



can help speer 1 4 346

But now money will really

by the Ottawa electronics :

reader, which has sust com boxes and soft drink bottles.

-Bill Lawren

caling 1 800-INFOPET the









pace invaders. Northbound killer bees may want to take o

THE GREAT KILLER BEE ROUNDUP

Pronpening swarms of Aincenzed falter bees, last reported south of Brownsville, Texas are due to invade the Pio Grande Valley later this year But they could be in for some strong resistance if they try to infliete domestic homewhere haves

honeybee hives
Besides having sightly
smaller bodies and wings
than domestic honeybees,
Africanized bees differ
from their European cousins
another critical way—
they have faster wing basis
Knowing this, engineers
at the Oak Pidge National

Laboratory in Tennessee built a two-channel norse analyzer that measures bee wing bests. The belligerent Africanized bee measures 250 to 275 beats per second, white the European honeybee sounds out in the 210- to 230-

The acoustic screening tool, devised by Oak Ridge engineers Michael E. Buchanan, Howard T. Kerr, and Kenngth H. Velentine, works like this A bee is placed imade the device? Right chamber If the bee activate a green light. It is probably harmless But if a rod light flashes it's probably a killer bee. Bedforepris who dis-

cover an Amicanizzo deem in their hives, ayay Kerr should replace the queen with a certified European queen to quell further infestation. The scientist cell their device the buzz buster and hope to sell it at \$309 to many of the \$300,000 amintair beekeepers and 4,000 commercial honey producers in

WE HEARD IT THROUGH TO GRAPEVINE

It was a case of serendpay Research chemists investigating an unsightly residue in muscadine grape juice discovered that it contained dilagic acid a compound that inhibits the growth

The finding may be a boon to the muscadine grape juce industry, which has been fairly small up until now. William C. Oliver, a borticul-

turst formerly with the US Department of Agniculture now at Clemson University explains that muscadine grapes, which come in a vinety of colors, have always been popular in the South 18ut, he says, "they are serestive to cold and are large harder to propagate their other grapes, so their comsomewhat limited."

somewhat limited."

Only recently have new techniques for growing - muscadines created a commercial market for the juice, a distinctive fruity beverage that the industry hopes will prove popular throughout the limited States.

Further research will deter mine whether muscadhes contain higher lovels of ellagic acid then other small fruits such as strawbernes or raspbernes and whether the cancer-fighting acid they contain is transferred by sim-

- Jane Bosveld

he grapes of cash. Fussy North American musicadines have

FEAR AND TREMBLININ THE TEMPORAL LOBES

In Mohael Contrains 1932 secret for five secret for five rows 1947 for formand Man, accomites attempt to care a pennic prince man by implanting decisions in a particular spot in those in a particular spot in the properties of the properties principal formation appropriate formation appropriate formation appropriate formation according for execution consistent for secret for formation for many favorable of the first first of least for the specific objects for the first first of least or entire to a specific contrains and first first first of least or entire the specific contrains and first firs

Psychiatrist Eine Reiman and neutrologist Marcus Rachle measured blood flowing through the brains of mor relaxed volunteers with position emission to the relaxed volunteers with position emission to the release their mission to the release their mission to the release their mission to the release their volunteers by attaching electrodes to their fingetheir and telling them they would recons an exceller dispote and telling the mission was the stronger they wasted, the basinger they wasted, the basinger their blood wastel business and the stronger their blood wastell the longer they wasted, the basinger their blood wastell the stronger their blood wastell the stronger their blood wastell the stronger that blood wastell their blood wastell

the volunteers. While the subjects were in this anixous state, the occurties anixous state, the occurtiest surned on the PET acainer and charted blood flow in their brains. They found that the fear of being shocked increased blood flow to the brain's temporal lobes, located a few inches betwind the eyes. As the betwind the eyes. As the



od for stimulating the cerebral cortex

being shocked increased further it was matched by increased blood flow to the temporal lobes. "This told us that there are certain common areas of the brain, most charmatically the tips of the temporal lobes, that deal with feer and amostly," saves Pachlic.

The researchers are now using PET score to study other states of minds such as simple pholosis, penic attacks, and depression. Their goal says Raichle, is to plot "a detailed emotional map of the brain, showing the circuits or combinations of origins that produce our feetings."—Mark Teich.

OCKROAC

continuate and it imms out, have a lot in common. The more morely you spend trying to seeled them, the airflier they become. By comparing police. By comparing the Insuce professor Joseph Friedman of Temple University found that spending deters oriminals for a while but breeds a higher come rate in the long run. Why? Probably because criminals. ophisticated efforts to

"Let's say people install burglar airner "Enedman agys "Initially it slope bur glanes, but once the commission how to disconnect them come rates wit nee again. After commais mas the new technology you'll have to install more complicated equipment. Then appring off people with simpler airners is a breeze.

Since money carri elegcommels, Fredmen suggests a different approach Atlack unemployment, which he calls "the baggest indicator of the natural corner rate". Keeping youth in school and providing vocational training for the unemployed and the incarporated is the key. "Reducing the natural crime rate at its source will have a leasing effect," Friedmen says: "withis spending more says: "withis spending more



When the game changes outlaws are muck to catch i

CONTINUUM

THE INCREDIBLE SHRINKING HEADLIGHT

shrinking man, followed by the incredible shrinking woman. Now we can look forward to another incredishrinking phenomenon

Goneral Electric in Cleveland worsing in conjunction with the Ford Motor Company developed the timy headlights for cars of the notso dissail future. Depending upon the final configuration, the tights could word upse two tennis bell size dimiples on a car's front endor-as an inch high step that runs along the leading edge of a car's how.

or a car's node.
According to GE's John
Devenport, the minlights,
called xenon (2EE-non)
headlights, are "revolution
ary". Because they are
far brighter than ordinary
headlights, they don't need
to be as large to create

energy efficient and should last the fir of an avertage of barring a front-end collector. They are however about twice the cost of headights in use now (\$120 compare with \$30) but Devemport says the cost would be involved be since it would be incor porated into the overall pro of the car. But the real revolved to the control of the car.

orated into the overall pric the car But the real revol, on. Deverport says wit e in car styling. "I'vil meavon more actodynamic esigns because the headphs wort be creating as such wind resistance." The tiny bulbs generate pht when an electronically ontrolled soark iumos.

controlled spark jumps between two tungsten electrodes synting an atmosphere of senon gas. The entire reaction occurs inside a capsate no largor than a match head. Deveriport predicts that the version lights should be standard equipment on 1994 model cars and could be used in outdoor

Tain vist, your reventable orangers at east me coll with ZSA HIT THE COP

les if usit bed mannes inverted sense of nose oblige that made Z. Gabor step that Box toop? A study by soon if Ronald Kessler of the restry of Michigan mar disonne light on the iss siler who was looking, asker manned adults to repostall incidents along their moods each day their moods each day

causes of stross, asked married adults to report safful interfer arong their moods each day as weeks. He found although some stress apparent two out of sed days, the incidents that sed the most stress were the ones commonly upto to be major stress ducars—job demands: ficial problems of sofks is in the family. The most is in the family. The most

ness in the family. The mosupsetting incidents he say are interpersonal conflicts. "A fight with a stranger supermarket clerk or a policeman—causes the most stress, Kessler says, but adds that such altercations mon though usually somewhat less stressful, are disputes with co-workers Arguing with strangers may actually be more stressful man farmly eights. Kesster eplains, 'because when you argue with someone you don't know the outcome is not certain.

amply stressed out?

—Vincent Bo

—Vincent Box When people are free to di

-ERC HOR

BEACON IN A BOTTLE

a amount as obtaine as occurs in review. They exhibit a solutional in review. They exhibit a solutional and come occupated with petroly of contained coming to petroly of contained coming to confecting below-more ordered produced in the containing about the time of containing below of the containing and other containing about on the containing and co

Hixers mountain climber cross-country skiers, and other adventurers apt to become lost may find the Radartron indispensable as



Making our Rheets safer. Leading the i far less glass than the ordinary vanety

SNORE TREK

In 1983 while writing a

grant record player with





ROVER GOES TO THE

cle They put the animals.

"That," says Neitz, "shows

Unlike humans however who see a spectrum based a dog's color vision fades to white --- Bill Lawren



BEETLE JUIC

spaner by may not be the aphrodistac it's cracked up to be in the human world, but its active ingredient canthandin, is a boket to surwalf for at least one group of beetles.

chemist Jernold Morrewold and biological Phones Ensire discovered that during see and biological Phones Ensire discovered that during see the property of the

cantherdus, suggest Memwald and Einner, is a survival took. The substance marks the female's eggs unpatiable to predators. They suspect that by mating only with makes who ofter the cariffran-containing goo, the female is actually saleguard.

but the lacker, in terms of sexual points; is that the male's love potion contains only a small amount of canthandin. The larger doses are saved for the male samen. "To really get enough to make their oggs unpallability! Micriwald says, "she has to mate with a male that's eaten a male that's eaten a male that's — Bill Lawren.



above is strictly a matter of taste

OAD SHO

way, couch potatoes of the future won't be continue to the living room soft they if be able to watch the layor is TV shows while criving their cars.

chring ther cars
Schiffman, an electrical
engineer, got his idea 15
years ago while designing
head up display (HUD)
systems for mittary arcraft
HUD systems project images
no a space in front of the fect
allowing the company of the company
to the

milar projection scheme

watch a TV show without taking their eyes off the road his AutoVision device, recently patented by Auto-Vision Associates in Ferndald Michigan, is a miniature projector Located on the roof

inside the car it boarns a porture through a small mirroritike lens on the wind shelp which reflects a witual mage "that appears to float above the road, about 15 feet in front of the car. The device has been tested for six years, with some 300 drivers logonor mirror than 200,000. scratched fender, according to Schiffman

Paul Green an associate research scorotet at the University of Michigans Transportation Research Inestitute, has driven a car fisted with the device and discovered that "it's not as cullendsh as you might think. But that desen't mean that it's salo." He says that independont experiments are now needed to determine the conditions of any under wheth Aut/Westin could be used.

Car rados, which were ntroduced 60 years ago, may some as a procedent. The devices were pulsed in many areas of the country because lawmakers leared they would detract drivers. But recort tests by Green and his colleagues have shown that radios help keep drivers alert Car TVs may serve the same function, Green save, crevial month the helfer.

off with just a radio"
—Steve Nadis

works there's

anyone who trims there's safety in numbers hasn't looked at the stock market pages'

world owes you a bring The world owes you nothing it was here first

-- Mark Twam

-Bertoll Brecht

your money is to fold it over once and put it in your

"What happens to the hole

D CMMNI

If there's a bigger system of intelligent life, we haven't found it.

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list of forums to meet our members' special interests. We offer an ever-increasing variety of shopping, travel, and convenience-oriented services. Plus, our combination of investment and research resources, and other

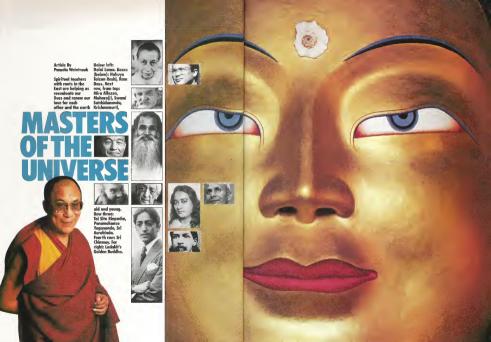
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Richard Alpert, Ph.D., was fired trom Harvard in 1983. His oftense was grave. Along with his friend 'Imrothy Laery, he had been caught not just using LSD but actually dispensing the hallucinogen to students Banished from the kingdom, he set out to discover the meaning of file. His quest took him to northern In 1967, he met Nero did, where, in 1967, he met Neem Kero

It Baths or Maharaji
As Alpart Islais It, he was sleeping in the footbills of the Himalayes when, in the footbills of the Himalayes when, in the middle of the night, he sudder, "line recalls," and I gazed at the stars. And I there settler of cancer of the spiece is settler of cancer of the spiece is settler of cancer of the spiece is been also bed. "The following day, my taveling companion told me he needed to see this grust and whether met bo come along."

The guru, Maharaji, was about sevently-eight at the time. An old man wrapped in a blanket, he was surrounded by half a dozen disciples, and his first words to me were, "You came in a big car? You'll give it to me?" It was the fastest hustle if dever encounteed. I was totally bewildered, and my perplexity gave Maharajili and his disciples a

good laugh
"They fed us, and we rested Then
he motioned me over to where he and
his translator were sitting. He said, "You
were under the stars last might." I said.

Yes "He closed his eyes and said, "You were thinking about your mother" I felt a kind of claimmy uneasiness. He said, "She died last year. She got very big in the stomach before she died." Then he looked directly into my eyes and said, in English, "Spiden."

in English, Spiken:
"At Bist port my rational, analytic mind gave up. I had a reportly, victorial to see up. I had a reportly, victorial to sob I cried for two days. At the time I didn't understand with in retrospect I realize that by conflorting the intellectual part of min. No conflorting

knowing that made this and all my later encounties with him extraordinary. Alpert wound up sponding two years in India, studying under his guru. When he returned to the States, his name was no longer Richard Alpert, Ph.D., but rath er Bathe Ram Dasso—Baite for "seppent of faither" and Kam Dass for "servant of faither" and Kam Dass for "servant Alem Dass or "servant Fater More, was clear." We are all on the journey towards enlighterment. We are all on the peth. daily, slowly, the are all on the peth. daily, slowly, the thinner...until, at last, there is light."
To some, Ram Dass's brand of flumination was laughable. His own father, at high-powered Boston lawyer, called him Batha Rum Dum. His brother called him Rammed Ass. And the National Lampooninvented a monthly oblumn featuring a dezed and disoriented mystic named Babs Rum Rusin.

named Baba Rum Raisin. But today Ram Dass and a few other teachers, or "gurus," form the high priesthood of one of the more pervasive reliquous movements in the United States. These "masters," as some call them, base their teachings on the sacred philosophies of the East: Buddhism, which supposts we find true happiness by renouncing earthly desire and exploring the "true inner self". Zen, a Buddhist sect that strives for enlightenment through altered states of consciousness and meditation; and yoga, a technique for achieving insight and balance through mental and physical exercise Though their exact philosophies differ, the masters teach their students to shed superficial values, to feel at one with the universe, to show love and compassion, and to achieve the state of emptiness," in which one eliminates all thought and opens up to waves of end-

The mesters who serve this Eastern breware no lightweights: The Dalai Lama of Thot, a renowned humantanen, was just awarded the Nobel peace prese. The late Jickiu Kristinamurt, a critical color organizate deligion, was one of the preemment philosophiets of this certificity of the control of

You may be more familiar with Shiriev MacLaine and her army of crystaigazers. But it is the masters who form the true philosophical underprinings of the burgeoning New Age. The serious seminars held weekly at Esalen in California and the Omecia Institute in New York are fueled by ideas from such people as the Dalai Lama and Ram Dass. Their techniques have penetrated the corporate world, where some companies teach employees the art of inner balance and "flow" And the masters have recently altered the face of psychotherapy, where some analysts give the "transpersonal" (i.e., spiritual) experience more credence than the superego and id

As Dom Morreals, author of Buddhat-America, pals it, "Dhaima has come home. One is no longer compelled to leave home in search of a true teacher or a vital practice center. The Buddhatrowement has become a regional/phenomenon. It is pervasive. And it is quiely transforming our North American cultures. This is the golden age of Buddhism Right have fill faith over

The roots of dharma—defined as the



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law upon which all processes in the universe are based-go back 2,500 years to the southern edge of Nepal. There. legend has it, a young nobleman named Siddhartha spent his youth in luxury shielded from the sorrows of the world. But one day he took a ride through the royal park and glimpsed the suffering of life. Vowing to find a solufion. Siddhartha renounced his wealth. and wandered the world. Then one day he sat down under a Bo tree, refusing to move until the mystery of human misery was solved. After 49 days he was rewarded with "the great enlightenment." He gathered disciples and, as the Buddhe, spread his vision throughout Nepal, India, and the East

You could obliterate suffering, he told his followers, by abandoning desire and becoming blissfully detached from the world. His disciples took yows against killing, stealing, and lying and lived austere, monastic lives. When they reached the pinnacle of blisscalled Nirvana-they would join up with cosmic consciousness by escaping the

endless round of painful reincarnation. By the first or second century AD. Buddhist missionaries had brought these teachings to China, where some of the theoretical overtones were replaced by a more pragmatic philosophy based on ethical rules. The Buddha's ideas then spread to Korea and Japan, where samurai warriors used a version called Zen to help them concentrate and perform martiellarts, Buddhist missionanes contirued to promote the spread of dharma, adapting their philosophy to almost

every Asian land In the nineteenth century dharms finally turned West, reaching the States in the writings of the transcendentalists, including Wait Whitman, Ralph Waldo Emerson, and Bronson Alcott, And in 1893 a Zen monk named Soven Shaku oversaw the first American conversion to Buddhism, at the World's Columbian Exposition in Chicago.

But it weren't until the 1920's that otherma really hit the States Its premier emlesary Krishnamurti, whose story is almost as extraordinary as that of the Buddhe himself.

In 1909 Krishnamurfi was a strikinniy beautiful but awkward fourteen-yearold living with his father, a low-level emplayee of the Theosophical Society in Adyar, India. The society, a cultike organization that mixed Buddhism and Inden Brahmenism, had been on the lookout for the new messiah for years. And when Annie Besant, then head of the organization, spied young Jiddu, she declared she'd found her man. Besent lured Krishnamurti away from his father (who spent years in fruitless lawsuits, attempting to get his son back). Taking the young man to Europe, Besant im-

mersed him in the teachings of the society, preparing him to save the world Krishnamurti, who eventually settled in Olai, California, spent 18 years as a messiah in training. He seemed to swallow the society's claims whole. But in 1929, at a mass meeting of the Theosonhical Society, he shocked his flock by abdicating claim to the throne "I do not want followers," he declared, "The moment you follow someone, you cease to follow Truth... Truth is in everyone. No man from outside voursel can make you free.

Renouncing not just Theosophy bu organized religion as a whole, Krishnamurti advised people to be their own gurus and seek enlightenment within themselves. He held yearly talks on his philosophy at an oak grove outside O(a) and regularly corresponded with Bertrand Russell, Aldous Huxley, and

George Bernard Shaw

For the next few decades Krishnamurti and a few other Eastern philosophers mindled with intellectuals in the West But it wasn't until the Sixties, with the advent of the drug culture, that their ideas truly took hold. As Marllyn Ferguson, publisher of the Brain/Mind Bullletin and author of The Aquerian Conspiracy, says, "The psychedelic movement of the Sixties led a lot of people to religious exploration. Eastern descriptions made sense to a great many people because they parallolod the transcendental experiences they had had with psychodelic drugs

Finally in the Seventies and Eighties with the rise of cosmology and neuroscience, people were able to see the similarity between the laws of dharma and those of the physical world. Says Diana Alstad, who is currently writing a book on spiritual movements in the United States, "Eastern ideas are simplymore sophisticated than Western religions in light of the science and technology of today. In fact," she adds, "the Western religions seem childish It's harrier for acientifically sophisticated people to believe in God-in the Father, the Son, and the Virgin Mary-than it is for them to believe in the principle of cosmic consciousness.

By the late Fighties the teachings of the masters had spread across the land. Today, with hundreds of spiritual centers and literally thousands of teachers, there seems to be a master for every personality type and taste.

Though Eastern philosophies in many ways complement science, some Americans look to their masters for a touch of the sublime. Take Sam Spanier, an upstate New York artist who believes his guides-the Indian yoga expert Sri Aurobindo and his spiritual partner Mira Alfassa (also known as The Mother)may actually have the power to heal

"This woman called me in great distress," Spanier explains. "She told mo CONTINUED ON PAGE SE

CREST



woice on the phone says, "We need to talk to you, Mr. Soames," so I know to pick the place up. Company coming. I don't like for Company to come into

PAINTING BY AKIRA YOKOYAMA

no pigsty, but one of the reasons the place is such a mess all the time is. It's so small, I got nowhere to keep shift except around, you know. But I shove both the dirty laundry and the dirty dishes in the oven-my mattress is noht on the floor so I can't shows stuff under the bed. and what won't fit in the oven I put in the tub and just before I pull the curtain, I think, Well, shill, I shoulds just put it all in the tub and filled it and got it all washed at once. Or, well, just the dishes, because I can take the ciothes over to the laundromat easier than washing them in the tub. So, hell, I just pull the shower curtain, stack the newspapers and the magazines-newspapers on too of the magazines. because most people don't take too well to my taste in magazines, and they wouldn't like a lot of the newspapers much either, but I got the Sunday paper to stick on top and

hide it all, so it's okay 'Compens' I dammed well know what's under those Sunday funnies because they know me, but as long as they don't have it staring at them, it's like they can prefered it don't exist. I'm still puttering and fussing around when the knock on

the door comes and I'm crossing the room (the only room unless you count the bathroom, which I do when I'm in it) when it comes to me I ain't done dick about myself. I'm still in my undershirt and shorts, for chrissakes.

"Hold on," I call out, "I an't decent, quite," and I drag a pair of parts outsit the closet. But all my shifts are either inteoven or the tub and Company II get family-antsy standing in the half—this is not the whatchenscallt. The place where Lennon bought it, the Dakota, yesh. Anyway, I answer the door in my one hundred percent octon undershift, but at least in.

my fly zipped.

Company's a little different this time. The two guys as usual, but tooking they got a woman with them. Not a broad, not a close, they are usually as the second of the company of the thing the company of the company of the company of the thing the company of th

They all come in and stand around and I wish I'd straight-



ened the sheets out on the mattress so it wouldn't look so messy, but then they'd see the sheets ain't clean, so six of one, you know And I got nothing for anyone to sit on, except that mattress, so they just keep standing around. The one guy, Steener,

says, "Are you feeling all right, Mr. Soames?" looking around like there's puke and snot all over the floor. Steener don't bother me. He's a pretty man who probably was a pretty boy and a pretty baby before that, and thinks the world oughta be a pretty place. Or he wants to prove prettyguys are tougher and better and more man than curvs like me, because he's afraid it's vice versa, you know Meybeeven both, depending on how he got up this morning

The other guy, Villanueva, I could almost respect him He didn't put on no face to look at me, and he didn't have no powerfantasies about who he was to me or vice versa. I think

Villanueva probably knows me better than anyone in the world But then, he was the one took my statement when they caught up with me. He was a cop then if he'd still been a cop, I'd probably respect him. So I look right at the woman and I say, "So, what's the, you brought me a date?" I know this will get them because they know what I do to dates. "You speak when spoken to, Mr. Soames, "Steener says," Steener says.

"You speak when spoken to, Mr Soames," Steener's kinda barking like a dog that wishes it was bigger. "You spoke to me." I point out.

You spoke to time, i pormous. Williamuses takks a few steps in the direction of the bathroom—he knows what I got in there and how I don't want for company to see it, so the is supposed to delifact the, and it does a fittle. The woman steps back, clubching her light oost tighter account her throat, not sure who to hide beginned. Williamuse's the better bat, but she doesn't want to get any further morn yearing this apartment, so she adges toward Steaner.

And if comes to me in a two second fisselt-move just how to do it. Steering to easy to take out. He's a rushed to do it. Steering to easy to take out. He's a rushed when when yet is not perfectly the steering the

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HBOOS





NOTHING ATTRACTS LIKE THE IMPORTED TASTE OF BOMBAY GIN.

Then the woman, I'd do it all, nound one and, pound the other, switching off before either one of us not too used to one. thing or the other. Most people, man or women, black out about then. Can't face it, you know, so after that, it's free-forfuckin'-all. You can do just any old thing you want to a person in shock, they just don't believe it's happening by then. This one I would rin up slongy. I would send her to hell and then kill her. I can see how it would look, the way her body would be moving, how her flesh would jounce flabby-

But I won't I can't look at a woman without the flash-movie kicking in, but it's only a movie, you know This is Company, they got something else for me. "Do you feel the working?" Villanueva

asks. He's caught it just now, what I was thinking about, he knows, because I told him how it was when I gave him my statement after I got caught. "Sure," I say, "what else have I got

54 ONN

He nods to Steener, who passes me. a little slip of paper. The name and address. "It's nothing you haven't done before," he says. "There are two of them... You do as you like, but you must follow the procedure as it has been described

to you-"I know how to do it. Eve studied on it, got it all right up here." I tap my head

"Second nature to me now. "I don't want to hear the word nature out of you." Steener speers, "You've got

CONSAVIDEN SEEDS PHOM MOROCCO MANGELICA ROOF FROM SAXONY WILLIAMS BERRES FROM ITALY CASSA BARK FROM INDOOR-IN

nothing to do with nature. "That's right." Lagree, I'm mild-mannered because it's just come to me what is Steener's problem here. It is that he is like me. He enloys doing to me what he does the way I enjoy doing hell, maybe she's just somebody's mothwhat I do and the fact that he's wearing er. She don't look too motherly, but that a white hat and I'm not is just a don't mean dick these days. whatchamacallit, a technicality, Deep down at heart, it's the same fuckin' feeling and he's going between loving it and and getto the sirport. There's a cab downrefusing to admit he's like me, boingboing, boing-boing. And if he ever gets

stuck in the loving-it side, well, son of a bitch will there be trouble Hook over at Villanueva and point at the woman raising my evel-trows. I don't know exactly what words to use for a is gonna upset everybody

This person is with us as an observor " Villanueva says quietly which means I can just mind my own fuckin' don't know dick about squat, and nobusiness and don't ask questions unless it's about the job. Hook back at the woman and she looks me right in the face. The hand clenched high up on her coat relaxes just a little and I see the purple-black bruises on the side of her kind of, some of it anyway. neck before she clutches up again real

way, but it's like she spoke to me. The lines of communication. Ike the shrinks say, are open, which is not the safest thing to do with me. She's gotta be a nurse or a teacher or a social worker, I think, because those are the ones that can't help opening up to someone. It's what they're trained to do, reach out. Or

"When?" I say to Steener

"As soon as you can pack your stuff stairs and your ficket is waiting at the airline counter, in your name

"You mean the Soames name." I say. because that's not my name for real. "Just get ready, get going, get it done, and get back here," Steener says, "No side trips, or it's finished." He question about her, and anything I say starts to turn toward the door and then stops. "And you know that if you're caught in or after the act-

"Yeah yeah I'm on my own and you hody ever heards me, case closed." I keep myself from smiling, he watched too much Mission: Impossible when he was a kird. Like everyone else in his outfit. I think it's where they got the idea.

Villanueva tosses me a fat roll of bills fast. Sho's still holding berself the same in a nubber hand just as he's following

Steener and the woman out the door. "Expenses," he says "You have a rentall car on the other end, which you'll have to use cash for You can only carry cash, so don't get mugged and robbed. You know the drill:

LENONPERL PROMISINAN A

ALMONDS FROM INDOCHINA

"Dril?" I say, acting perked up. like I'm fhinking. Wow, what a good idea Villanueva refuses to turn green for me, but he shuts the door behind him a

I don't waste no time; I go to the closet and pull out my traveling bag. Everything's in it, but I always take a little inventory anyway, just to be on the safe side. Helluya thing to come un emotie handed at the wrong moment, you know. Really, though, I just like to handie the stuff hacksaw, mallet, boning blade, iodized salt. lighter fluid matches, spray bottle of holy water, four pieces of wood pointed sharp on one end, half a dozen meanes, all blassort and two full place settings of silverware. not stainless, mind you, but roat oliver And the shirts I don't never put in the tub. What do they make of this at airport security? Not a fuckin' thing. Ain't no gun. Guns don't work for this.

The flight is fine. It's always fine hecause they always out me in first class and nobody next to me if nosuble. On the night flights, it's generally possible. and tonight, I have the whole first-class section to myself, not and cold running stows, who are (I can tell) forcing themsmell, or just the way my eyes look? Wilanueva told me once, it was just something about me gave gyeryone the creeps. I lean back, watch the flash. movies, don't bother nobody, and everybody's happy to see me go when the

plane finally lands. I get my car, nice

midsize job with a phone, and head

right into the city I know this city real

J OFFIS (RIS ROOT) FRUMITALY LICORCE PROMINDOCHINA Street, Gr. 625 and applicate SON processors at 1885 Carbon reporter Ltd. Toront No.

good. I been here before for them Do an easy fifty-five into the city and go to the address on the paper. Micitown, two blocks east of dead center, medium-sized Victorian. I can see the area's starting to get a whatchamacallit, like a facelift, the rich ones coming in and fixing up the houses because the magazines and TV told them it's time to love old houses and fix them up. I think about the other houses all up

and down the street of the one I gotta go to, what's in them, what I could do 1 sure feel like it, but I made me a deal of my own free will and I will stick to it as long as they do. Steener and Milanupya and the people behind them. But if they bust it up somehow if they fuck me that will be real different, and they will be real sorry.

I call fhe house, nobody home. That's about right. I got to wait, which selves to be nice to me. I don't know... don't bother me none, because there's what it is, and I don't mind it, but it the flash-movies to watch. I can think makes me wonder all the same; is it a on what I want to do after I get through what I have to do, and those things are not so different from each other. What Steener calls the procedure I call a new way to play. Only not so new, because I thought of some of those things all on my own when I was whatchamacalit, freelance on to say and done some of them, kind of, which I guess is what made them take me on for this stuff, instead of letting me take a guick shot in a quiet room and no funeral after

So, it gets to be four in the morning. and here we come Somehow, I know as soon as I see the figure coming up the sidewalk across the street that this is the one in the house. I can always tell them, and I don't know what it is, except maybe it takes a human monster to know an inhuman monster. And I don't feel nothing except a little nervous about getting into the house, which is always easier than you'd think it would be, but I get pervous on it anyway.

Figure comes into the light and I see it's a man, and I see it's not alone, and then I get pissed, because that fucking Steener, that fucking Villanueva, they didn't say nothing about no kid. And then I settle some, because I can tell

the kid is one. too. Ten, maybe twelve from the way he walks. I take the razor and I give myself a little one just inside my hairline, squeeze the blood out to get it running down my face, and then I get out of the car just as they put their feet on the first step up to the house. Please, you gotta help me," I call

not too loud, just so they can hear. "they robbed me, they took all my ID. my credit cards, my cash-

They stop and look at me running across the street at them and the first thing they see is the blood, of course. This would scare anybody but them (or me, naturally). I trip myself on the curb and collapse practically at their feet. "Can Luse your phone? Please? I'm scared to stay out here, my car won't start, they might still be around-

The man leans down and pulls me up under my arm. "Of course, come in. we'll call the police. I'm a doctor: I have to bite my lip to keep from laughing at that one. He's an operator maybe

but no fucking doctor. Then I taste blood, so liet it run out of my mouth and the man and the kild get so hot they can't get me in the house fast enough. Nice house. All the Victorian shit restored, even the fuzzy stuff on the wallpaper, whatchamacailt, flocked wallpaper. Then the quy's rushing me upstairs, right in my hand, which they do not bother wondering about what with all this blood and this guy with no ID and out at four in the morning, must be a criminal anyway. Lused to ask Villanueva, don't they ever get full. We they can't drink

another drop, but Wilanueva told meno. they always had room for one more, it was time thay were pressed for Dawn. I'd be through long before then, but even if I wasn't, dawn would take care of the rest of it for me. They're getting so exated it's getting me even more excited. I look at the kild and if I'd been anyone else. I would started screaming and try no to get away, because he's all gone. I mean, the kid part is all gone and just this fucking hungry thing from hell. So I stop feeling furriy about there being a kid, because like I said, there ain't no kirl just a short one along with the fall one. And shit if he don't twig, right there on the stairs. I musta looked like I rec-

"We're burned!" he valls and tries to elbowme in the face. I dip and he goes right the fuck over my head and down ka-boom, ka-boom Guess what, they can't fly. It don't do him, but they can feel pain, and if you break their legs, they can't walk for a while until they can get extra blood to heal them up. The kid's fucking neck is broke, you can see it plain as anything

It because the big one growls like a fuckmg attack dog and grabs me up from behind around the waist. They really are stronger than normal, and you better befieve it hurt like a motherfucker. He squeezes and there go two ribs and the soft drinks I had on the plane, five a fuck-

You'll go slow for that," he says "you'll go for days, and you'll beg to die." Obviously, he don't know me. I'm hurting all right, but it takes a lot more than a couple of ribs to put me down and I never had to beg for nothing, but these guys get all their dialogue off the late show anyway and they ain't thinking or nothing except sticking it to you and drinking you dry. Fucking undead go a, a whatchamagailt, a narrow perspectwo, and they think everyone's scared of them. That's why they send me, because I don't see no undead and I don't see no human being. I just see something to play with. I got a narrow per-

spective, too, I guess

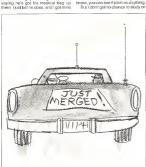
But then everything is not so good be cause he tears the bag outta my hand and flings it away. Then he carries me the rest of the way upstairs and down the apposite end and tosses me into a dark room and slams the door and locks it. I hold still until I can figure out how to move and cause myself the least pain, and I start taking off my shirts. I'm wearing a cordurey shirt with a pure linen lining sewn into the front and two heavy one hundred percent colton T-shirts underneath. I have to tear one of the T-shirts off, biting through the neck, and libite through the neck of the other one but leave it on (thinking about the guy biting through necks while I do it) and put the corduroy shirt back on, keeping it open. Ready to go

The guy has gone downstairs. Thear the kild scream and then muffle it, and I hear footsteps coming back up the stairs. There's a pause, and then I see his feet at the bottom of the door in the light, and he unlooks the door and opens it. "Whoever you think you are," he says, "you're about to find out what you really are.

I give a little whimper, which makes him sure enough to grab me by one leg and start dragging me out into the halfway, where the kid is lying on his back. When we're out in the light, he stops and stands over me, one leg on each side, and looks down at my crotch I know what he's thinking, because I'm looking up at his and thinking something not too different. He squats on my thighs, and I rip my shirts open

It's like an invisible grant hand hit him in the face, he goes backwards with a scream, still bent at the knees, on top of my legs. I heave him off quick. He's so fucked I have time to get to him, roll him over on his back, and give him a nice full frontal while I st on his stomach It is a truly def tattoo. This is not like

CONTINUED ON PAGE 91





A combination of earthly elements and heavenly inspiration fuels these

GREAT BALLS OF FIRE

GLASSWORK BY JOSH SIMPSON



n a rural town in western Massachusetts classhinwer

town in western Massachusetts glassblower Josh Simpson demonstrated how to create small, perfect marbles to a group of curious children white strawing the race his

craft, the piped piper became intrigued with the idea of making more liticate spheres with blown glass. And so his series of glasswork called

series of glasswork called Planets was born. Imitating the Almighty's handwork with his rendflions of var - the planet's surface. Completing the - tion. If the world's appearance is not ious planets. Simpson uses his globe that houses his creation takes, and systematic, he likes to behave blowning to conjure fantasy worlds ranging in diameter from two to ten inches. Using a library of satellite photos. Simpson often starts with a technical drawno. His ethernal lands and seas are laid out on paper. sketched in his skies are satellites and isolated meteorites. Throughout this planning stage, settings euniue and grow. Seemingly active volcances burst through the landscapes and oceans abut the sculpted continents

The first step in bringing his worlds to life is forming a core to support depending on the surface construc-

only a few hours, but he labors for days over the detailed interiors. Crealing the three-dimensional effects requires national and skillful use of traditional placemoker's tools Fig. nelly by arking mica, gold, and silver, shimmering city lights and nch terrains burst into being

Simpson dinesn't name his Planets ndrvidually but rather prefers credting them with degrees of habitation. Once completed, he views the piece as either "inhabited" or "possibly inhabited" by some form of life. it's the independent workings of intelligent life. The more elaborate larner works "meneworlds" he describes by saving, "Some seem a temble place to true—so dry and and while others are warm and lush washed with huge blue oceans and onld mauntain range

Simpson's fascination with the universe inspired a second series of works. Another heavenly body. the tektre (a sificate glass believed to originate in space or when a

moteorite stokes

this meteor? Simpson discovered teklites composition through chemical analysis. Combining various elements, such as the metallic oxides iron and manganese, in his tures are still hot he glazes the inte-"helling furnace" Simpson created in rior with a silver class, which results a succession of glasswork titled in a "glowing indescent world withsimply Tektites.

Those works take on a froor form this phients have blasted form on than the methodically designed space, arriving on the earth roughly

Earth) appealed to Simpson: What Planets Simpson considers himself morals a nertriar in the taking organ ess-the moten louid has a mind of its own. During the firing, the gray, crusty exteriors form and bubble into individual shapes. While the sculpin." The artist tikes to imagine that

nitted and abraded Desnite their hareh in may the Taktitas a nova their mysterious and precious intering improthed. If want the viewer to experience my work in every way nossible states Simpson "and to experience life's fragility. 'Each viewer brings a world of meaning to Simpson's creations, reflecting Nathaniel Hawthorne's sentments in The Marhie Faur "Nohorty I think ought to read poetry, or look at pic-

tures or statues, who cannot find a great deal more in them than the poet or artist has actually eynressed - Kellee Monahan DO





Unity any a parmey of a thousand mass segment with thousand mass segment with a size, a size of the size, and the size segment of the size segment of the size segment of the size segment of the size of the size

PHOTOGRAPH BY JOHN BENNETT



these spiritual practices can help us cope with the future shock of the Nine tes. Besides an open mind, I'm bring-

in more than a dozen classes So I start, like a child in the womb. with an innocent kick.

TAE KWON DO, NEW YORK CITY

The kick is from tae kwon do (the Korean words roughly translate into "kickpunch-art"), and the master is sixtyseven-year-old Duk Sung Son, a ninthdegree black belt who has taught the

BOK Army of South Korea as well as cadets at West Point Tae kwon do is a martial art more than 2,000 years old. An assortment of kicks and punches that focus power with deadly effectiveness, it's a socalled hard style. Hard style? Lask Master Son "Punch, side kick, roundhouse," Son replies. "One kick, fight finished."

I dress for class. I pray the threat of bad press, like the proverbial mark of Cain, will protect me First we race around the doig, doing

laps at breakneck speed. Ten minutes later we bow to the master, then snap into a fighting stance at Son's thunderous bellow Drill sergeants would do well to study here

We quickly perform ten sets of tae kwon do's 15 "hasics" farm blocks.

Lunderstand now about "hard style." Obviously, tae kwon do is blue-collar, with enlightenment the by-product ing a tube of Ben-Gay--I'm to participate of the work ethic. But what about k? I

> ask Son before I go. He looks at me blankly, "Energy," I say, "mystical force " "Ahl" Son cries. He jumps up and, hand on his stomach (to indicate the center of the body's ki), throws a punch above my head. I swear I feel the air

shake. The explanation, like tae kwon do, is unadorned, direct, and powerful. NINJITSH GERMANTOWN OHIO

There is a sound fike a bee whizzing past my ear, and then a shuriken (throwing star) bites into the foam target against which I'm pressed spread-eagled like a Dürer ink sketch. The niniffau, whose origins are seventh- or eighth-century Japan, are the world's best human fighting machines. With a philosophy based



on The Art of War by Sun Tzu, circa 400 BC, ninja fight with silence, exile, and cunning (to guote that Irish ninia. James Joyce). They are, says Stephen. K Haves, their spiritual leader, "prepared for the worst while anonymously

enjoying the best. l'miust a bit nervous. I'm inside a recreated Japanese ninis training halfbarren wood on wood, and on the walls a collection of exotic chains, knives, swords, whips, staffs, and other sadistic tools that would make a hardened

dominatrix blush. Haves assures me I'm okay. He's more or less a glorified yoga teacher, he swears. Even so, this isn't your or tee kwon do, with its proud show of power. This is the martial art of expediency. Loractice movements to distract and fool my opponent. I slip punches rather than block them. When my opponent is thoroughly confused, I have the opportunity to finish him off with kicks to the knees and groin-or fice. It is self-pres-

ervation by cleverness and stealth. Haves exemplifies this philosophy When not in his ninja black right down to his split-toed tabi (special ninia shoes that remind me of cloven hooves), he blends without a trace into small-town USA, "I'm an average American duy," he says, a grin spreading over his pleasant all-American looks. "I con-



punches, and kicks), speed through all the hwings or forms then fungusly fight "no contact" (this I watch), two people against one, one against oneexhausting just to watch

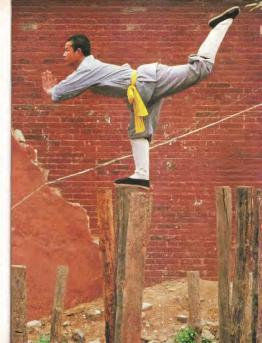
Two hours later we "warm down" by, fantastically, throwing a dozen more viggrous punches and kicks. We bow to the master and, if extremely lucky, find the strength to crawl to the showers and then to bed to sleep for several weeks.



The character on page 62 signifies the Tgo, or path. Photograph (pages 62 and 63) is of Dan Furuva, fifth-degree gikido black belt and Zen priest. Clockwise from right: A practitioner of Wushu perfects his balance

on poles planted loosely

in the ground; Wushu artists in the shadow of Shaolin Temple: Duk Sung Son, ninthdegree tae kwon do black belt: Wushu masters battle each other atop poles.





form to the ordinary. So does my ki." "Do you carry ninia stars or weenons?" Lask

chain, rope Ordinary things That you can use as weapons if you get in trouble?"

Hayes shrugs and smiles. He won't say yes. It's hard to pin a ninia down.

WING CHILD TUCSON ARIZONA If you've seen Bruge Lee in action (and he was a real martial artist), you know

that at least once during each of his "noodie" flicks there occurs a stylized exchange of rapid arm blocks and attacks It may look like Moe and Curly-you know, whack, barn, poke in the eyebut when Lee did it, it was authentic. deadly Wing Chun.

Wing Chun was developed at the famous Shaolin Temple, a Chinese Buddhist monastery and martial arts training center founded 2.500 years ago and still in existence today. Tai chi and the flambovant Wushu (best known for its spectacular high kicks and leaps) also evolved from forms created there. More recently. Wushu has moved away from its fighting heritage. Throughout China, and in many other places around the world. Wuship practitioners compete with each other in mosts that resemble gymnastic contests-with judging

based on style and form, rather than comhat illegend has if that a Burtchistinum Na Muil created Wing Chun after she "I have a toolbox in my car, with observed a small animal overcoming a larger, more dangerous one. From this example she developed Wing Chun, a style of martial arts in which you fight at extremely close range-practitioners stand almost toe-to-toe---and make small circular movements with your arms to catch and deflect approaching

blows. A so-called soft art, it favors the use of suppleness to overcome force. Or as Augustine Fong, the unlikely master, keeps insisting, with a giggle, "Too stiff, too strong," In Wing Chun these are no-nos. You fight with feeling. sensitivity, even kindness; it's the mar-

tial art of self-deprecation. Fong fits this philosophy. Looking almost docile, he moves around his dolo. like a stand-up comic working a tough



room. He giggles at his own comments. but like poor Rodney Dangerfield, he don't get much respect "Come on, Si-fu," a student complains. Si-furmeans "father" or "feacher" in Cantonese. "What can you show

me?" He and Fong are doing "sticky hands," simulated fighting in which your hands touch or slick to your partnor's. Si-fu invites the student to try to punch him. Humbly Fong deflects each blow by turning just slightly here, moving there. The student huffs and puffs. Fong glagles, "No need even to fight." he says plackily to me, while continuing to humiliate the young man. "Only stupid man has to use strangth." he adds and, using his hand, touches the student's arm and the guy falls over backward. "Too strong," Fong says and giggles. "Oh, much too strong!" and he

starts to laugh. We all nervously laugh with him TAO MASTER, LOS ANGELES

Today I'm to meet the seventy-fourth generation of Tao masters-a lineage extending back before the Han Dynastv. 216 B.C. The Tao (pronounced dow) is an ancient Chinese science more than 6,000 years old, its goal, ostensibly, is to achieve eternal life (a happy, healthy life, I might add). But Taoists are practical. If you don't live forever, han-



is one part of the Japanese Zen tea ceremony; a participant in the tea ritual partakes of her drink as if engaging in a meditative exercise.

Facing page: A Shaolin priest jumps in a cornfield outside his temple. This page (clockwise from above): On the steps of Shaolin monastery a group of Zen Buddhist priests demonstrate their favorite martial arts maneuvers:

a specially prepared brew

by and healthy still apply. How do you achieve this contented longevity? A Tao master combines the wisdom of all Chinese esoteric teachings, including herbs, the works of Lap-tzu, martial

arts, and even sexual practices Imention this because the master. No Hua-ching, is supposed to be in his eighties. When I enter his home, a Chinese gentleman of forty greets me. "I'm sorry," I say, "I'm to meet your father."

"I am sorry," the man says with a thick accent, "Father is dead."

When I say the man looks forty, well, go for fifty. Even fifty. But eighty? This is Ni Hua-ching! We sit, I stare. His skin is as smooth as a baby's. I

His skin is as smooth as a baby's. If stare at his fingers. Not a wrinkle. I'm not talking sunspots or veins, wrinkles. He starts to talk about the Tao with

He starts to talk about the Tao with the enthusiasm of a young man—yet something is wrong, I can't understand. N's accent is too heavy

Deep lineide I start to gigglic hysterically I am sitting next to a man intimately connected to the knowledge of Lautzu, of the secrets of the Tao and eternal life, and I can't understand a word Yes, I'm taping this, but I can't follow up with perinent questions

After listening repeatedly to the tape, I realize this is what Ni said. Don't think about age. See life from a distance of a hundred years and act as

distance of a hundred years and act as if you're going to get there. Do all the Chinese exercises and meditations, including merital arts, yet know they're not important Stop belleving in God; it's bad for you. Don't ge to doctors. Be natural they believe metinal intelligible your coff.

for you. Don't go to doctors. Be natural like a baby, natural vitable is your gift I wigh I had asked Nimore questions. But would the answers have helped me fathom his wisdom? Despite Tablism's practicality, it is also mystical. Lao-tzu said, "The Tao that can be lold of is not the eternal Tao." Penhans, following Lao-tzu had the eternal Tao." Penhans, following Lao-

tzu, he had shown me the practical steps to reach the fao, figuring the mystical side would take care of itself.

tical side would take care of itself.

ZEN, DOWNTOWN LOS ANGELES

Today is Zen day, I'm looking forward

to this, getting up at the crack of dawn to do zazen (silling zin meditation). When I ask why so early, Reverend Kensho (Dan) Furuya, who is a Zen priest as well as a fifth-degree black belt in alkido, saye, "They've been doing it this way for eight hundred wears."

But now it's zazen time, I enter the zazen room. Fen poople sit five zombies, facing the wall. I get a big fat cushon on which to elevate my posterior, cross my legs, and we're off Forty minuses to go. Minimar. That yeight: Thirty-ore, my leg fatte asleep. Thirty-ore, that asleep Thirty, I wake up hom the point may leg. With the control of the contr

ly, I don't have a limb. Thi floating in silence, logiese, amriese. I feel greet. Afferward we sit down to the traditional breaktast they've boen eeting for about 800 years into gross garrished with a pickfel plan and two sloces of all pickfel radish. As I we worked up pick to radish. As I we worked up you tradish and an exercity reprimended. You're supposed to save a silect to use as a dishragt ocken your bow! Waste

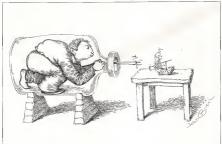
not, want not may be a lesson of Zon-Future, limboulose me to the head monk, Roverend Bithop Kenko Yamashita, who's in he eighthes Futurya asks if have a question, lask the masthe how we can beter face the Nineties, with its exponentially mounting future shock. Silence "I don't know," Yamashita finally says. Suddenly he breaks out laughing "I don't know," he ones I look at Futurya, who laughs poliety I start laughing. The three of

can't stop laughing Is this Zen'? Did I just ask a koan and get the erilightened answer? Is laughter the answer—our sharing that laughter? I think of saffing into the future, without answers, laughing courageously.

AIKIDO, LOS ANGELES

After Zen we go back to Furuya's school of alkido—a rolatively new martial art invented by Japanese master Mortheil Ueshiba in the Thirties. Although Furuya advises the LAPD on controlling violent criminals, he stressen alkindry exactistism, separet more

multiply induse adversels. The streetes allicitors meditative aspects more than its married nature. He is short, rotund, wears a crew cut and a menry smile like the laughing Buddha, and looks gulte harmisse—that is, until he puts on his black pleated trousers to load a class of 40 respectful students. I take the class. A write belt (there are only write and the more advanced



black belts in aikido) is invited to charge. Furuya grabs his wrist, guides him here and there, then puts his arm out and the guy flies onto the mat. It looks like buillighting with Furuya as the metador-and the bull doesn't have a chance. The class pairs off to play bull and bullfighter. Furuya says: "When we define the world, we make assumptions that limit us." Apparently I'm defining my opponent, too; he's flipping me right and left. The white belt defines the situation as a contest between opponents and charges, according to Furuya. By changing that definition, Furuya can harmonize with the man's movements and neu-

trafize the attack "I am open-minded, I do not define," he says with a smile. "I destroy the gap or distinction between myself and my partner." Furuya's graceful arkido is proof of the freedom and power that come from this absence of limits

JUJITSU, ALAMEDA, CALIFORNIA Juitsu is a Japanese system of pressure points and joint locks based on acupuncture meridians and transferring kr. According to seventy two-year-old Wally Jay (Jay's a tenth-degree black belt, as high as you get), it's the grandpa of judo and alkido. Those disciplines

just took the bad parts out In his Island Jujitsu Club, this kind and gracious senior citizen takes hold of my wrist. "Watch," he says, "no effort

Wham, I'm slammed to my knees, Jay takes my finger and turns it slightly. "Nooco!" I hear myself screaming. Jay helps me to my feet. "There's got to be pain or you escape," he explains want to escape. Luckily, his thirty-fouryear-old son walks in. Through the air he files, joints cracking, body twisting.

He's screaming, too. Jay invites me to try juiltsu on his son. Lexperiment with a wrist lock WHACK, and the son goes down like a sack of cement. A thumb lock. BAM, he's mosning on his back. All my frustrations are sadistically given vent, but I stop. The effectiveness of the techniques makes excess violence embarrassing. That is entichtening "It's not how much you can hurt," Jay says, "but how little You can control a man by altering his ki-with just a touch. I'll show you

That's okay!" I cry, hiding my hands and moving away Jay laughs. "What's so funny?" I ask That's the best way-to control without even a touch." he says "That's the

power of jujitsu T'ALCHI, SAN FRANCISCO It's time for the slow motion of selfdefense, t'ai chi ch'uan, literally "Su-

preme Ultimate Fist." Everyone's seen this sort of ballet of slow, graceful hand movements and turns-hundreds of millions of Chinese perform it every morning in parks and

villages-but not everyone knows it's a fighting form. According to Doc-Fai Worra, the forty-one-year old grandmaster of the art, 1,500 years back this lethat form was slowed down to a sneit's pace. Why? You should go slow before you go fast. This slowness makes it hard to believe it's a martial art and hard to convince your average crackszoid mugger that by doing Crane Cools Its Wings or Step Back and Repulse Monkey (these are fanciful names for the different motions), you're going to keep him from cutting your heart out

I begin class with standing medita-

fion. Wrenched gently into the pose of a

stringless marionette, I close my eyes.

Master Wong's soft hands force me into a stranger posture. After ten minutes I'm absolutely ready to Step Back and Reoulse Monkey Which is what I do, but so excruciatcomes impossible. If all off balance, try

ingly slowly that what seems easy be-

again, trip-while the form inexorably grinds along When, finally, Step Back and Repuise Monkey ends, Master Wong demonstrates. Sped up. that gosture breaks your opponent's fibula, and this one smacks him right in the head. So that's how the monkey gets repulsed The health benefits, according to Word, have more to do with unblocking your ch'y than with cardiovascular

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onsciousness

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BANTAN NEW AGE HARDGOVERS

work. "Ch'll flows through us from heels. I am told that Min is repelling birth," Wong says "Ch' makes us strong, not muscles and sweating.

"What if I don't feel it?" I ask. Wong. stares at me, "The chy." "It's there. Do t'ai chi." I stare back. "It's who you are." Wong says. "Relax, Go slow You'll feel it."

CHI-KUNG, SAN FRANCISCO I'm looking for a garage door. Only

by special invitation can Lobserve (not participate in, sorry) a class in Ch'ikung, taught by the eighty-three-yearold mistress of the art, Min Ouyang

Ch'i-kung is a system of medicine and meditation that's been a Chinese secret for thousands of years. Acupuncture is one of its inventions, just one: for Ch'l-kung is the study of ch'i, and for the Chinese, chi) is everything. The exercises done by a Ch'i-kung practitioner look a lot like t'ai chi. About the only difference is that Ch'l-kung postures have no obvious martial arts application. They relax mind and body and permit the circulation of ph? through the body Sort of like a Chinese system of vo-

ga, I think, mellow and noncombative. Then something happens that I'll try to just describe. But it won't be easy.

Inside the garace about ten people are hopping like hunnies and then sud- tie power, as the waves are to the wind

denly tumbling backward head over driving them toward the shore?

them with chi'l With a wave of her hand she throws her chi and back they go Can I believe this? Lask if Min can do

this to me. No, she says, my ch'i isn't ready. If she zapped me now, I'd get sick, my organs would bleed internally I take her word for it.

Her translator keeps saying, "Nobody will ever believe this," The tolks bouncing backward seem normal and sang. Min's ambivalence about publicity and repeated questioning of my intentions

ore not the hehevior of a charlaten Several of the participants laugh nerunusty at I magine if it's nossibly true.... the energy directed at them. Apparently they're shaorbing ch'! They're becoming more powerful more alive. Why don't I feel it? And what am I missing? The Tao master says longevity. The t'ai chi mester says health. The lae kwon do master save power. How do I find the ght in me? According to Min. it could

take years of study I walk out into the fog, a fitting metaobor for my mental state. Sea culls chatter overhead. I drive down to the Pacific and stare at this immense body of wafor that stretches blessedly toward the East. Where is my ch'/? Is it really all around me and I'm just blind to this subYORA THE CATSKILLS NEW YORK

I'm going to the borscht belt to find a swami. Past the Concord Hotel, in what are affectionately called the Jewish Alos. stands a voga ashram.

Yone is the source of consciousnessraising. The real goal, according to Swami Vishnu Devananda (this ranch is one of his domains), is to realize that earthly matters are Maya, or illusion, and that our true essence is bodiless awareness, or what yogis call Perfect Peace

and Absolute Bliss. Inside this former hotel-not far, I imacine, from where overled quests laughed themselves into apoplexy at the antics of Sid Ceesar and Unde Miltiewe do your assenss, or postures, with names like the Cobra, the Locust, the Fish. These open paths for the (liusory) prane (prane is Sanskrit for ch'/)-at

least illusory to me At a vegetarian supper, complete with borscht. I meet Swami Sankarananda, a forty-year-old South African disciple of Vishnu Devananda. We talk of prane and I ask about ch?. "All these names describe the same thing " he says. "Their goal is the same. To feel the universal force moving through us.

Through you too " It's dark outside as we chant in Sanskrit and then meditate for half an hour. Afterward we sing Indian songs. We sing the words in English. "I am not this bo-dy, this bo-dy is not me." Singing the words makes me nervous. If our essence is awareness, as the vogis say, who is this body? Who is the "me" seeking

this orana or chit? MY APARTMENT, NEW YORK CITY

I can't sleep. There's only one more class and then that terror, the deadline Not only have I not found the ch's but my mind is mush. My skepticism has weakened to the point of collapse, yet pothing's replaced if.

When I asked the Tao master why he came to this country, he said, "Someone asked me." Had he no will of his own? Are we leaves on the wind? Do these leaves think they're fiving? Okay, I groan, give it a try. Give in.

I have no responsibility. I'm as vital and guided and free as a leaf in the wind. I feel the ch's. I think it's the ch? But when I think,

this subtle feeling moving through my body disappears. It's an awareness or a sensitivity that I can't direct. Finally I stop trying and just watch I watch throughout the night.

If we are part of the energy that surrounds us, why shouldn't we feel connected to the world and ourselves? I don't mean thinking, I mean experiencing this. Can we be in touch with ourselves through feelings, not just faith? ZEN TEA CEREMONY NEW YORK CITY A journey of a thousand miles also

ends with a single step. After a battle samural warriors would sheathe their swords (which they considered their souls) and crawl humbly

through the narrow opening of a tearoom. There they'd entreat the master to make them tea. My journey's been sort of a battle.

with illusions and false beliefs felling like enemies before me. The Zen tea ceremony might seem

one of the stranger ways to raise your consciousness. What's wrong with ton begs? I can hear Aunt Ida ask, and tea master Hisashi Yamada, a vouthful sixtyone-year-old gentleman, would probably agree. You see, it's not the tea that makes the ceremony; it is our appreciation of the ceremony.

Furuva told me that the Japanese sutra."Form is emptiness, and emptiness form" is the basis for Zen. I think my apprediation makes the form. To really anpreciate the ki, myself, my eyes must open. I must appreciate.

enter the tearcorn, four and a haif tatami mats in size. This one, according to Yamaria, is completely authenticsort of the standard model for the past

500 years. Its stones and wood all came from Japan. Water boils in a sunken metal pot. A scroll hangs on a wall. and below it a yase with flowers rests. on a shelf. We kneel on the mats. they're hard as ice. I get a sweet, a noe. cracker with bean paste on it "Eat it," says Yamada, "as if it is the most important thing in your fife, enjoying this sweet." Hook at him, He's quite serious I stare at the cracker. I put it to my lips. l understand.

Should I describe the rest? The de-

tails seem superfluous, yet they're not The hour in the teargom is my journey The tea-whisked to a froth, green as algee in a pond, floating in this glazed bowl-is. like a pond, alive and dead changing, unchanged. The stence in the room, broken only by my sipping and a final noisy sluuuurp (you're supposed to), is the fring silence of earth and sky. of kill oh? or praga moving through us I receive this knowledge as casually as this sig of tea, for both are meaningless. except for my appreciation. How do we face the Nineties, we wer-

riors of the West? The past was once the future, but life is now. Yamada says. This out of tea. This moment we share is its perfect essence. Understanding this and knowing that someday the fulture will be this moment, too, why should we fear? DO



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For a noted anthropologist and scholar of his own Tewa Pueblo tribe. the remaining Native American cosmologies offer the best blueprints for environmental, and even spiritual, rebirth for future generations

INTERVIEW

e wide Southwestern sky stretches out over the mountains in all directions. Among the tall peaks lie winter fields, and off beyond them, past scrubby cifion and cedar trees that speckle the landscape, run the great Rio Grande and Rio Chama rivers, lifelines to a dry and dusty earth. As we drive along the dirt road into San Juan Pueblo, New Mexico, the largest village of six Native American communities known collectively as the Tewa Pueblos, anthropologist Affor- Tewa mountain to the west.

so Ortiz slows the car and nods toward a small brown adobe home with a pickup truck parked behind it A beshive oven, also made of adobe, can be seen off to one side. 'This is the house I was from in " he says. It is also where, in spir-

it, he still lives As a boy, Ortiz could walk gut of this three-more home which he shared with two sisters, his parents and grandparents, and see Tsikomo (meaning Obsidian Covered

PHOTOGRAPHS BY DAVID MICHAEL KENNEDY

To the south is Oku Pin (Turtle Mountain), to the east Ku Sehn Pin (Stone Man Mountain), and to the north the great Tse. Shu Pin (Hazy or Shimmering Mountain) These are the sacred mountains from which his ancestors arose and to which they returned, as all Tewa will when their faces become like the cracgy land on which they live "It's impossible to think of people here without thinking of a particular mountain that they have a special relationship with." Ortiz says "They look to it for all sorts of things: portents of the weather immediately ahead, signs for the kind of winter they will have: they look to it for evergreens and eagle feathers, which they use in dances, and for pigments and other materials to use for their ceremonies. That's why it can be fairly stated that you cannot think of any Pueblo group without also thinking of a mountain with

which it has a special relationship." It was from his small home, bordered by other such homes in the pueblo of San Juan, that Ortiz would borrow a pony and nde off to the Rio Grande to swim on hot summer days, where he danged in geremonial garb, and where he sat and listened to his grandfather and other tribal eiglers as they wave arelhistories with the skill and color a master weaver uses to create a ruo

As we drive toward another Tewa villape, we pass a young Tewa man and woman riding paints on the dift road. Ortiz waves, as he does to everyone he sees along the way. He points out the Black Mesa, another sacred mountain with long, deep fissures running down its sides. "The uninitiated," he says, "are tok! to stay away from those fissures because the winds can suck you deep into the underworld, where the spirits live, and you don't want to be caught. near there. It's also said that singing emanates from the fissures and that the winds come from them, too

It is clear that in the Tewa world, the land is imbued with spiritual meaning. And it is from this land and the rich tribal culture that worships if that Ortiz, the anthropologist, was born. After leaving San Juan Pueblo as a young man in order to, in his words, "get as much edugation as Loculd." he considered becoming a lawyer, because he felt that would be a good way to help his people. But he was unable to find any role models to help him. It was then he disgovered anthropology, a field in which Native Americans had made a mark. "I almost couldn't believe it at first " he says, "Society will pay me for learning as much as I can about things Indian! What could be better?

Clockwise from too left. Detail from a Hool Hemis (hamecomina) doll, pelebrating the last dance of the year, in July, circa 1930. Comanche dance shield, fashioned from paroted antelone bide, orgs 1890. Apache Gan dance headdress, circa 1900

At the University of Chicago, he also found a mentor anthropologist Fred Eggan, "Fred considered it a totally stunid hugeboo that an anthropologist had to go off to a totally new place, learn a totally new language, and learn a new culture." Ortiz explains. Eggan encouraged him to build on what he was and what he already had experienced, "I had grown up in one culture," Ortiz says, "learned to engage in another when I went to high school and college. and yet another when I moved away





the same glose ties with his tribe that he

had as a boy. For instance, he is a

strong supporter of the New Moon Al-

cohol and Drun Rebehilltation Center on

his reservation. He views himself as an

edvocate for Native American traditions.

"My role," he says, "is to prick people's

consciences, to keep on goading

them." The cultural legacy of Native

American tribes, he believes, should



Pitzer College in Claremont, California. and then at Princeton for seven years. He won a MacArthur fellowship and published a piethora of respected papers and several books, including Tewa. World, an ethnographic study of his own culture. At the same time he served for 15 years as president of the Association on American Indian Affairs. But he returned to his native land in 1974. Today he lives in Santa Fe-within 30 miles of San Juan Pueblo-and teaches anthropology at the University of New Mexico in Albuquerque

University of Chicago, Ortiz taught at

Although Ortiz, now fifty, is a respected member of the anthropological community he remains a Tewa, cultivating a comfortable chair in his fiving room.

peoples: the foods Native Americans taught Europeans to grow (corn. squash, potatoes, avocados, chilles, tomatoes): the herbal medicines they had developed; the principles of social behavior that formed the bases for their cultures. Ortiz explains that the leaders of the Iroquois nations, for example, reneatedly told "the ever-blickering leaders of the thirteen colonies. "Look, be like us. Do not fall out among vourselves Be of one heart, one mind, one body Act together, act in concert."

As we spoke the day after we toured the pueblos, a heavy white snow descended on Ortiz's large adobe home set in the foothills of Santa Fe. Sitting on he talked of what could have been the greatest of all cultural exchanges between the white man and the Indian, if the white man had been open to it, namelv. Native American spirituality Although each tribe had developed its own views, they shared-and still do sharemany common beliefs, it is those teachings. Ortiz believes, that have much to offer an America in environmental and spiritual crisis - Jane Bosveiri

Omné How do you counter the argument that Native American tribes are less evolved than the European cultures that conquered them?

go to work among the corn and other plants, you sing, because if you don't have good thoughts and a good heart the plants will not grow well and you will not get a good harvest. Omn! What themes do Native American religions have in common? Ortiz: Most sacred stories have the

to the Spanish missionaries with all their saints was, "Oh, great, more religods interfering in the affairs of ordinary gious things." That's why down people, where they have no business interfering, so they have to be put in their place. They're not high gods in some heaven, they're more like Greek gods who insinuate themselves in human affairs and sometimes make a mess of things as a consequence. Not

that reason, they can't be easily transported. Nor do they make universalist claims. They aren't proselytizing, they don't try to convert. Each religion represents more powor we can add on. The Pueblo response

through the millennia, Native American tribes have borrowed songs and dances. They were happy to incorporate new things into the tradition-adding powers to their repertoire of powers. They never could understand the Spanish Franciscans' stance of "My way or no way at all. I have religion; you have superstition." The English colonialists on the other side of the continent said, "I am civilized; you are savage. I have relight: you have the devil devil worship. idolatry, and superstition. I have law and order, you have anarchy. We have noverriment; you have nothing," and so on Just erect a frontier, put all the good guys on the east side of it, and all that's bad and wild and uncivilized on the other side. The New World was called such because it was not known to Medterranean manmakers. Because it was not known, it remained threatening until

mile was explored and mapped Omni: You've written of the transforming power of song and dance, of the old Hopi man who seemed to grow younger as he danced.

Ortiz: In 1964 a fellow graduate student at the University of Chicago was spending the summer in New Mexico, working with the Pueblos. He was a Brahman from India, and it was his first time out here, and I took him to a Hopi kachina [ancestral spirit] dance. We stood on the here sandstone with our backs against the wall of a house. There were multiple performances; In the kachina they dance, go rest, stop to est, and dance again. Just after we sat down we noticed a little girl leading a man, probably her grandfather, out of the house we were sitting against. The old man. obviously blind, was bent with are. As the kachinas danced and sang their sacred songs, he sang with them. And on the bare sandstone of the mesa he danced, just destures, calling the clouds to form and the rain to come With each succeeding performance, he seemed to glow more with a power. As always renewed if one has the proper the drew energy up from the earth, sky, and clouds, the years seemed to mil off him. To us, in our early twenties, he looked to be Old Man Time at eighty



not fine for cultures, especially when you. American religions depend on direct exraise such unsettling questions as Do. souls evolve, or did the soul just come into being way back when? Does the idea of God evolve by degrees? No. The idea of a "spint being" is found. Sure it varies, but not along dimensions of greator or lesser complexity.

I say spirit rather than supernatural because Indian tribes put nothing above nature. Their gods are part of nature. on the level of nature, not supra-anything Conversely, there's nothing that is religious, versus something else that is secular. Native American religion pervades, informs all of life. A well brought up Pueblo Indian is taught that when you perience for their credibility and perpetuation. They are experienced rather than revealed, religions. In the dances, one is either renewed or not. And one is attitude—if the heart and spirit are in it.

You're not expected to believe in something that happened two thousand years ago in the Near East for the credi- But by the end of the afternoon, when bility of the religion. Rather, the religion the dance was over, he looked not is based on where the people live, the creation or emergence from the earth and the migrations that took place tidinated in dances and rituals the eldclose by Often those migrations are re- ers would tell us to go to the river, even traced in prigrimages. These are religions of place rather than of history For

When we were boys, after we'd parin January, to wash the paint off, We'd sit in the river and knock ide floes from

more than sixty

us as they floated by Despite the cold. no one ever caught a cold or pneumonia. Our bodies seemed suspended in space and time, not really susceptible to cold and heat as were those of pecole who had not denced all day. Even though we'd often stayed up late the maht before, putting finishing touches on our costumes, we were often more tired at the beginning of the dance than at the end. The hypnotic concordance of danging feet, beating drums, shaken rattles, bells around our belts or knoss. and the choreography, the moving in great unison, had a rejuvenating effect. Own: Native American traditions extend kinship to include the animal world-

would you talk about that? Ortiz: The late Irving Hallowell, a distinguished anthropologist at the Universiby of Pennsylvania, wrote numerous papers showing the different tribes' kin terms for beavers, moose, deer, elk, eagles, how tribes see in them analogs of human relationships. They know them as brother, sister, and uncle. Not just the human but the entire biotic com-

munity is related Native Americans show a great feeling of respect even for their prey. You don't just go out and shoot a deer. Usually you make an offering at a hunter shrine and pray to the deer, asking its permission to take its life so that you may sustain your own. When you bring it home, you treat it with utmost reverence. Then and only then is it butchered, and everyone gets a portion of the meat. The remains of name that can't be used are deposited at a shrine for game animals. Again, at these consecrated spots, a prayer is offered, asking the spirit of the animal to come back. It's a very different behavior from that of sportsmen

Native Americans are much concerned with found things. The roadrunner is among the most sacred birds among the tribes of the Southwest. Elders tell me if you ever see a roadrunner [pgowl] killed on the side of the road. pick it up and bring it home. The feathers are potent. Indians revere the roadrunner and think it has great magic. great medicine. It leaves tracks that form an X, so you can't trace it unless it's kicking up dirt. Also it's believed to be absolutely fearless. It'll take on a rattiesnake that's hissing at it

If you perceive things about creatures, then you can honor them. The butterfly embodies the principle of elusiveness. Before going on a war party or raid, warnors paint themselves with butterfly symbals to invoke the power of elusiveness. If you ever try to catch a butterfly with elude your grasp. In the desert country where the Hopi live, there's a beetle that has the ability to obliterate its tracks as it moves along the desert sand. If you saw it here an hour ago, it'll be over there now, but it leaves no

tracks. The Hopi celebrate that little bug during young men's initiation ceremonies because for warners the ability to obliterate tracks is important.

But there never was an effort to maripulate the creatures. The question most persistently asked was. What place does this being have in the scheme of things? You accept the Creator's wisdom in placing that creature there. You don't ask. How can I use it? Most peoples believe they may use arrything of the earth for their own benefit In Native American religions, kinship with nature is the postulate

Omné You have said your grandfather told you to "look to the mountaintop. What did he mean by that?

Ortiz: In the late Fortles, when I was a boy, we used to run relays on a regular hasis to give strength to the sun as he journeys across the sky. In spring and summer, when day and night are close to being equal, the relay was run east to

6Fach religion represents more power we can add on. The Pueblo response. to the Spanish missionaries with all their saints was, "Oh, good more religious things. 9

west, west to east, over a track in those directions. After the autumnal equinox, when the sun begins to descend to "the south corner of time," as the Hopi term it the track was usually from north to south to lend the sun strength for descent and to slow it down so it won't get cold too soon and too fast. Here's an audacious belief that human actions could affect the sun, an extreme instance of extending kinship and the community of causation-from Earth and lone individuals and their running feet-to the condition of the sun itself

The mountains, like the sun, are looked to as a source of so many blessings rain, evergreens, eagles, hawk feathers. Mountain tobacco from a certein elevation is used to send clouds of smoke up to meet the clouds of the sky as a prayer and appeal for rain So it should come as no surprise that very early on, elders teach about the mountainton. On the day of one race my grandfather told me, "Keep your eye on the mountaintop as you run, and in time you'll feel as if you can jump over

houses and treetops and across a riv-

er "Just a few months later, he died. I think he knew his trail was coming to an end and that if I remembered his words and thought about them in the process of growing up, my understanding would grow with time. He was really say-

ing, "Take the largest view of life that you can " Of course, the largest vistas are those you see from a mountaintop, but keeping your eye on the mountaintop also means not being distracted by lesser goals. It was a matter of unfur in o meanings, because as a metaphor it could sum up life, mean everything. Omnt Is the Great Spirit of Native Amercans similar to the Judeo-Christian concent of God?

Ortiz: The term Great Spirit is designed to address the white man's questions about the ultimate ground of being, as it were. It's known by various names Wakontonka in Lakota; Manatu in the Algonguin languages of the East, Hojo in Navaho, and so on. Every tribe has its own name for it, but it really adds up to the great power or unknown; that which animates the world. It's seen as an energy that you can tap through prayer. dances, pilgrimage, self-denial, fasting, acts of humility such as giving everything you own away. In these acts you open yourself up to that power. Refigious leaders in Native American communities often say that he who will be rich in the things of the otherworld must

be poor in the things of this world. This still holds true. The most respected people are the pogrest in the material things but who expend their energies in tapping into the power of the otherworld on behalf of their fellows. Omnir Do Native Americans have ideas or perceptions of an afterlife?

Ortiz: It is very differently postulated from the Europeans'. There's no concept of hell, a place of everlasting damnation. There is no prince of evil. The Devil. provides great fun for native humorists. They think nothing else in Christianity is so much fun as the Devil. They fike to mitate and parody him, he is such an unlikely character. The closest you'd come in Native American religions is the Trickster, who is both positive and negative at crice. But the Devil has no analogs in the indigenous religions. Second, there is no concept of original sin, that humans are tainted as they come into life. To religious that honor and cherish human life, the very idea that one could be tainted is just abhorrent. All life is sa-

An old friend who's long since gone to his reward was a religious leader of the Northern Chevenne people in Montana. He fixed to tell this story of how, when he was a boy many different missignaries came to the Northern Cheyenne to try to convert them. Catholic priests saying one thing, Episcopal priests another, and the Presbyterians something else. The people became

cred from the beginning.



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frightened anxious and insecure with all these men of the cloth making different claims, all basically ending up with "If you don't do it my way, if you don't come to my church and listen to me, the one true voice of God, you'll go to hell." The people kept coming to the Cheyenne Council and saving. 'You've got to resolve these issues. What is a davit? Heli? Isn't there somewhere in our traditions that accounts for the Devil and hell?" and so on including other concepts they found problematic as represented by these inissionaries. So the Cheyenne Council met all night hashing these things out. Examining Cheyenne traditions, they tried to find something analogous to the Devil that could help the people understand

Finally forme immediate early Clays men Henry Kastinger came up with a comforting conclusion. The council and comforting conclusion. The council and comforting conclusion. The council of earlier to the wind pulme of a mode to people came to hear at long last, what no council of elders had to say And out came the profouncement that "you people are not be very about the Devi public and not known about the Devi public and the known about the people came. As for hall, if as a place to be people came. As for hall, if as a place to the white man created for himself. Chapter and the people came has for these Don't worny about the people came. As for these Don't worny about the people came.

story could have been repeated three or four hundred three over in any tribe in any corner of North America. Own? In terms of religion, what effect did being their land have on the tribes? What happened, for instance, to the Souck when they lost the Black Hills, their spiritual land? Ontz: On the Plains, being the builfalo Ontz: On the Plains, being the builfalo

did more harm than losing the Black Hills. The Black Hills were important, don't get me wrong. But the buffalo dominated not just their subsistence but their social life, political organization, reual, and religion. In the great sun dance, a buffalo skuli must be mounted on top of the sun dance pole. The great all they got came from White Buffalo. Woman. For a long time they couldn't get fresh buffelo skulls for their sun dances, and they were discouragedor actively forbidden by the federal government-from doing the sun dance. But for vision quests, young men did go to such places as Boar Butte and the Black Hills. So the loss of the Black Hills was, of course, a very crippling thing. So the Sloux suffered both loss of land and loss of their life pursuits Let me tell you a story. Some years

ago a NASA team of scientists and technicians were conducting experiments on a particularly solated, thinly populated area of the Navaho reservation. They chose that spof in the desert nortex to conduct thisse operationates in secrecy. You could see forever in every discussion, so you'd know if enyone we've seying on you. From the last week on, they spotted a lone figure sitting on a small nill in the distance As days wortby, the figure came closer and closer. One day he strolled somewhat hestartily into your other you have not only in mean in the standard of the conduction of the conduction

speke no English and so spoke through his grandson. After getting acquanted and looking around, he asked them what they were doing. The scientists responded, "We're conducting experiments in preparation for going into space, out there." The old man had seen television, and his fellatives had explained how Not! Amstrong walked on the mon Sohe grew thoughtful and said, "Ah are you group beyond full and said," Ah are you group beyond.

the moon this time?" And they said, "riss, their sity all these systements are necessary." The old man said, "Will you take a massage out there for me? We Navarbo people have relatives among the star." They considered it a silly, rather mystical request of an old man. The old man's feelings were, of oourse, vary hurt, because he was serrous. From the standowing to Navaho re-

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UFO UPDATE

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whiled Silves The later bases vise grower much the a whiteeximming I and their but through dur program to enable bud to realize to the world, he notes: "When we deamed he was releasable, we turnised him tree in Quisti-

Afficigit the bird was barried and observed las ing with other birds in the written of 1988 no one has seen it since. "At least he hasn't similar up in trouble their probably out their entreplane." Benglint says, "One thing i'm says, and the dicht by all te freisand."

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mean eo dasan protector Whilam Larvis however doubts that Ayarvedic treat ples offer any new hope for the seriously (i) "Chopps is a migeanizy-for Maham Mahesh top, and wilen you hive their and of strong philosophical chemiston, you tend to adjectively chapte cases of the world in finding for notes: "I think its very sharing that Dhopra uses the time agentum from modern physics and justisposes it with the very cilc. five-thousand-past-old belief system of Air swed Trying to peet this staff of it is a countil is a dissector."

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obty born of the New As Whittisskinnwheelges i shareonism soviety and with other traditions that use although states purely escapsism. But, is probemening ext of the exercisstates and bringing that in mation begis for survival.

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MASTERS

that her bushand was in the hospital dying. He was in and out of consciousness. Nonetheless, whenever his eyes were open and he was slightly conscious, he

called for me "I said, "He calls for me? That seems, very strange; we only met once. She said. I know that's what's so

remarkable. He'll open his eyes and say, "Sammy!" "I said, "I'm not a healer, and I don't have any special qualities, and I don't

know what I would be able to do "Nonetheless I went. When I was alone with him in the hospital room. I sat down and took his right hand in mine. I bowed my head and I called to The Divine Mother, and I said, 'Mother Dear, if at all this child can be helped, please bring your presence to help this child." I opened my eyes, and there on the other side of the bed was The Mother, manifest-completely! And she said to me, Tail him he will be well." I can't express

that more deeply. She was there! "I turned back to this man in great happiness, 'Arthur,' I said, 'you will be well! You will be well!' With this, he opened his eyes and he said. 'Sammy!' I turned back to The Mother-she had

disagneared. Then Liet

"Half an hour later, the doctor came up to the man's wife and he said. 'Madam, there's been a slight change.' We staved another hour, and again, the doctor came and he said, Well, it's quite remarkable, but there's some improvement.' That man not only improved, he lived. He lives to this day

Other masters seem a bit more human to disciples. They are perceived not as wizards or gods but rather as parents, sometimes loving and sometimes stern. Take the experience of Visnu Javson, manager of the Integral Yoga Uptown Teaching Center in New York The center is headed by Swami Satchidananda, who also directs the Satchidananda Ashram Yoqaville Virginia in Buckingham, Virginia, and is considered

one of the foremost Yogis in the West. Sometimes the parent/guru needs only a few words to convey the pertinent message, as Jayson recalls, "The day we laid the cornerstone for a shrine at Satchidananda's ashram in Virginia, disciples came from around the world with treasures, which were to be put in the earth to form a foundation-soil from holy places like the Walling Wall, gems and iewels, even a moon rock. A large hole had been dug in the ground. for the ceremony, and Swami Satchidan-

anda was squatting beside it.

"I was filled with self-importance. watching everybody watching me, the first in line, as I picked up the biggest rock I could find and threw it in the hole. As I walked away, I looked at Swami Satchidananda. He said quietly, 'Top much getting is going on here 'I was supposed to be contributing by giving. and instead I was feeding my ego.

Sri Daya Mata (Faye Whight) had a similar experience when her parentlike guru put her in her place. Her master: Paramahansa Yogananda, who came from India during the Twenties to introduce the Kriva form of yoga, in which practitioners focus by slowing down

bodily functions When I first came to his ashram as a young woman. I was very sensitive and shy." Wright, now president of the Self-Reglization Fellowship, Yogananda's headquarters and teaching center in Los Angeles, explains "One evening he had a group of devotees come to his sitting room, where he talked informally about spiritual matters. As he talked I noticed that he was folding up a newspaper into a dunce can, and when he finished. he looked at me and said. 'Come here. I shook my head no I didn't mind his meddling, his driving and disciplining me to help me change, but to make fun of me in front of others wasn't right. I didn't give him that permission. He







coaxed me several times, and the more he coaxed me, the more determined I became that he was not going to put that hat on my head. Finally, after everyone's laughter quieted down, he dismissed the others and asked me to remain behind

"So I sat down, and he said: "Why are you so sensitive? Does it matter whether you are made fun of? Of what value are the opinions of others?' I realized he was trying to teach me that my sensitivity was something I had to overcome, because it would affect any success I might have in life. I apologized and told him he could put the cap on my head now, but he said, 'No I just want you to learn and remember, never he affected by how people treat you. never be affected by their criticism and unkindness. Learn to be strong ' I replied that I'd never admired tough peonie, but he said. 'Don't misunderstand me. I moun he strong as steel inwardly. so that nothing can touch you. It doesn't matter what people think of us; what matters is how we look at ourselves and how God thinks of us.

Some masters choose to reject the parental role. Instead, they teach disciples techniques through which they may find the answers themselves. This is just what computer programmer Ben Spector found upon encountering the City guru. "The minute I saw him I felt this inner peace and I thought he would be a good person to answer all my outer problems," Spector explains "So I asked him, 'I'm in law school; I don't

really fike it. Should I stay in law school? Or should I no into computer science or statistics? Or should I become a teacher? Should I stay in Montreal or move somewhere else? Should I continue trying to save the world, or should I settle down? Imean, I had all these questions. and after the meeting I just walked straight up to him and asked him like twenty questions right away. He looked at me, smiled, and said. 'Meditate, meditate, meditate. And all the answers will come from meditation."

Renowned British physicist/philosonher David Bohm learned to look inward with a specific meditative techrique during a dialoque he had with Krishnamurti shortly before the great man's death. Bohm was particularly moved because, as it turns out, Krishnamurti's Eastern perspective corresponded with physical laws. Bohm explains "in quantum physics, the observer and the observed cannot be separated. Therefore, a person measuring the results of an experiment is actually influencing the outgoing. In physics, you can get around this by removing yourself and relying on an instrument to do

'But how do you get around this problem when trying to understand your own emotions? How do you come to terms with anger, say, or violence, when simply by observing such emotions you al-

"Krishnamurti said that if we want to bring order to our emotions, we won't do it by thinking. Instead, we must acknowledge that we are the anger, that we are the violence. If we can stay with this perception long enough, the whole structure of thought and feeling will collapse like a house of cards. We will no longer sense the thinking part of the mind as a separate entity that can comprehend-and perhaps control-the emotional part. Instead, we will see the emergence of a different kind of mind, in which thought and feeling-the ob-

server and the observed-are one." This practical, essentially scientific bent is also embodied by Gelong Tenzin Gyatsho, the fourteenth Dalai Lama and winner of last year's Nobel peace prize. The Dalai Lama is the "supreme teacher" of Tibetan Buddhism and the leader in exile of the people of Tibet

Romione of sodoen children in a farming family in eastern Tibet, the Dalai Lama was just two and a half when Tibetan monks identified him as the reincarnation of the previous Dalai Lama, who had died a few years before. On February 22, 1940-et age four-he was enthroned and installed in the 1,000-room Potala Palace in Lhasa, In 1959 he fled into exile following a failed uprising against Chinese troops.

Ever since, the Dalai Lama has worker to free 6 million Tibetans from Communist Chinese rule. But if he succeeds, he says, he may not advocate continuing the line of Tibet's godkings, of which he is the latest "I'm trying to develop the democratic practice." he says, and has even suggested that he himself might step down from political power and be replaced by a popu-

larly elected prime minister The Data: Lama's desire to demystify himself was recently illustrated by Robert Thurman, the Jey Tsong-kha-pa professor of Indo-Tibetan Buddhist studles at Columbia University and a former Buddhist monk "Legions of people swear they have experienced manifestations of the Dalai Lama," Thurman explains, "but he says he doesn't know anything about it, so he doesn't make any claims.

In one example, he described some Tibetan who had been coming to see him and missed his appointment Then that Tibetan had to go to Nepal and do business. When he came back to the Dalai Lama, he was so grateful that the Dalai Lama had given him just the right advice.

'His Holiness didn't know what he was talking about and said. 'Well, what do you mean? And the man said, The



"Better get rid of the body"

night after the time when I couldn't meet you, you visited me in my dream and told me to go to Nepal. "You'll see me when you come back," you told me. "But now just go and make sure you get there on time."

get brief of hime." "His Holmess said. Boy, it's very "His Holmess said. Boy, it's very Loby you click'n tree for a bocause if the holmess said to have given you such good advise. So I guess tim more afficient in the diseam then I am in real title. He denned consociusly doing agent in any way, but he didn't deny agent in any way, but he didn't deny that the deam had come validity for the that the deam had come validity for the would really light tenny acheolise I good power would arreally light tenny acheolise I good pow would arreally light tenny acheolise I good to the power of the power of the power of the would arreally light tenny acheolise I good to the power of power of the power of power of the power of power

me in their dreams. This progradic view keeps the Dalai Lama in touch with the world. One of his current missions: forging a link between traditional Tibetan Buddhist philosophy and modern science and concerns. In April 1988, for instance, he netticineted in the Global Survival Conference. held at Oxford's Christ Church College in England, Along with Mother Teresa, the Archbishop of Canterbury, Carl Sagan, and Yevgeny Velikhov (Gorbachev's chief adviser on disarmament). the Dafai Lama discussed ecological breakdown, the threat of nuclear war. and the importance of the human mind. "Our mother planet," he told the group. "is telling us, "My dear children, behave in a more harmonious way. Please take more care of me."

As associat conference held reconstylin Newport Basen, California, hernet with neuroscientists to discuss the roots of compassion, the causes of child abuse, and the connection beand Western theories of the prima and Western theories of the prima and Western theories of the prima Palas I zama filled scientists in our Tibus. And the was eager to learn from them: If there's good, strong evidence from the prima of the prima of the prima of the art this is contray to Buddhern." he sand, 'Then we well change."

Ram Dass has become a bit of an activist as well. In his latest incamation, he is a colounder of the Seva Foundation a Chelsea, Michigan-based group that funds chantable causes worldwide. Seva (Sansknt for "service") has thus far helped fight blindness in India and Nepal, sponsored reforestation projects in South America, and funded health education programs for American Indians Ram Dass, who also teaches volunteers to help AIDS patients, says, "My intention is to enter places that exacerbate suffering. In the Sixtles I began to learn how to be. In the Eighties Hearned how to express that being in doing.

A similar call to action has gripped thirty-five-year-old Tai Situ Rinpoche "You can't just pray for peace," Tai

n't says "It won't grow like the trees or fall am like rain. To have peace on Earth peoee ple must act to create it."

It is this philosophy that inspired Tai's Pilanmage for Active Peace, undertaken last year to overcome conflict and unite the cultures and religions of the world According to Dhondup Namoval Kharko, a board member of Tai's LLS based Palpung Foundation, the master's global-and technically sophisticatedapproach was particularly effective in communicating his ideas. "When Tail came to America in 1985," says Khorko, "he was already talking about modern electronics and communications satellites. And once he initiated his peace mission he hired Daniel Edelman, a big public relations firm, to handle his account. Since one of his philosophies is to communicate to as many people as possible, he thinks public relations is a wonderful thing, "If you count yourself, the number is always one," he

⑥If you're hungry, then you're interested in food. If you're lost in a spiritual wasteland, then you may find yourself interested in a master.

once told me, 'but if you count others, the number is infinity.' "
The number of Americans following Eastern masters and philosophies mity not be infinite, but according to some

estimates, there are 3 million Buddhists in this country. Why the powerful trend? William George Roll, a Denish professor of psychology and psychic research at West Georgia College, says part of the reason is America's frontier mentalite. "You learn't explice, the facel and

The reason is whence a stronger mentalty. "You can't explore the land anymore," he says, "but you can explore the sprintual landscape. Thare is an openness in the American psyche: We all came here to find new opportunities and openings for ourselves." Adds Marijyn Ferrguson, "There's

been an awakening of the American unconscious. The attraction to the spiritual indicates we're willing to admit we don't understand certain things." The rise of the masters may also be a

reaction to technology. "There's got to be something more in life than the newest invention or technique," says H. Newton Malorty, a professor in the graduate school of psychology at Fuller Theological Seminary "People are seeking" some meaning that goes beyond secular survival. Many find the late twentieth century so unbearable that they con-

tinue to find appeal in these proups. icel Kramer, a onetime spiritual teacher now at odds with some aspects of Eastern philosophy, says the masters hold sway partly because people feel lost. "Our traditional support systemsfamily, religion, community-have fragmented," he says, "and people find themselves awash. When human beings are awash, they will grab on to something that gives them a sense of belonging Our society has pushed materialism to the limit, and people are laded. If you're hungry, then you're interested in food. If you're lost in a spiritual wasteland, you may find yourself interested in a spiritual master or group.

Kramer, coisultion with Astad of The Gunz Papers Bassies of Authorisan Powes, sees: "incordatio darger" in the resease incordatio darger" in the resconsecution of the seed of the seed of the seed of cathority often granted a grur. For inspance, he notes, classifies blindly following a leader may lose the critical foliation of the seed of the seed of the roote racious groups." Knamer says, "actoricipie weapons," and a filiophe "actoricipie weapons," and a filiophe their bits case of the big firm grus who their bits case of the big firm grus who

with his disciples. He passed the AIDS virus on to them. "Gurus," Kramer adds, "are interested in power. And there's no one more powerful than the person saving your rout. But the upper all but the pro-

on in power. And merie is no one those powerful than the person sening your soul But the uniqual nature of the relatoriship between grur and disciple may orlipple the disciple's psyche. And the relationship is equally destructive to the guru; there's no way he can't end up totally soletaid from other human beings. With no equalify in the relationship, it's smoky and to be limited."

Alstad adds that the "hidden author ity" intrinsec to the master-disciple relationship "can easily become a power marripulation under the guser flow. Disciples may ultimately become so cyncel they can't open up to other people or establish a sense of trust."

Kramer and Alstad also say that Eastern philosophies, "like all religions, tend to be renunciatine." That is, they emphasize enlightenment through desachment from the world. "Detachment can reduce conflict," Alstad says, "but it can also engender more callousness. It will not help the species survive."

While others conceds these pitfalls, they believe they can be overcome. Poll, for instance, admits that the masters' seem to belie our democratic tradition. But," he says, "in a certain way, perhaps separateness is our problem. We have become so separate that we forcet we are all connected to the other.

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ical environment, the social environment, and each other. We need to feel connected to solve problems such as the destruction of the environment, poverty, and drups."

sy, and drugs."

Not all masters are autocrats, Roll acks, Some are merely feachers. "If you place yourself completely at the disposal of a gurs, you have problems," he assys. "But if your master is simply your teacher, then once you have been taught, you can go your own way Buddham has always contended that fi you know yourself, you know the world."

And Rick Fields, author of How the Swans Came to the Lake, A Narrative History of Buddhism in America, acrees that despite the dangers, the American brand of Buddhism is essentially good. "There's danger in getting married," he says, "but people still do it. There's danger in anything worthwhile. The important thing is that students proceed slowly that they sit down by themselves and look into their own minds. More and more, people are understanding that the point is not to follow somebody but to explore your inner self. The spiritual journey is ultimately personal, and you must make it on your own

"A good master," concludes Don Morreale, "is one who constantly throws you back on your own devices and says, "You figure it out yourself."

That's the lesson John Daido Loori learned from Hakuyu Taizan Boshi. head of the Los Angeles Zen Center. on the day they met "Maezumi Roshi was staying down the hall from me at the Narone Institute." Loori explains, "so I went to his room to pay my respects We talked for about half an hour, and I left. Later that evening there was a knock on my door. When I opened it. two of his monks were standing there with a bucket of Kentucky Fried Chicken, and they invited me to join Maezumi Roshi for some fried chicken and sake. The evening turned into a party, people came and went, but he kept me sitting next to him the whole time. And every so often he'd lean over and whisper.

'Daido, tell me ' I'd look at him and say,

Tell you what?' And be'd look off the

other way. A short time later, he'd tan

me on the shoulder again, lean close.

and say, 'Daido, ask me.' 'Ask you

what? Fix reply, and hed furn sway.
"He did this seweral hime, so It figured, Ocay, this is charma comiset," and when he said. Daudo, tell me, I'p ticked up a gless, drank deeply, and went, Ahthhinh! He looked at mo, held his nose between his fingers, and turned from the charman and the control of the charman and the

and started cleaning the apartment. He said, "It's okey We'll do it tomorrow" Well, it's not at all like a Zen teacher, especially a Japanese Zen teacher, to leave a mess and go to bed, but he insisted and showed me out the door.

'About an hour later, there was a pentle knock on my door It was Roshi He'd changed his clothes to more formal robes, and he said. 'Come with me' The playfulness was gone, this was a command. So we went back to his apartment And it was spotless. He'd cleaned it washed every dish, bethed himself, shaved his head, and set a table with four bowls and the other implements for the tea ceremony. He invited me to join him. I asked who the other places were for. He said one was for Yasatani Roshi, one of his teachers, the other was for Spen Boshi, my teacher at the time. Then he prepared the tea according to the Zen ceremony and served it. As I touched the tea to my lips I started crying. I didn't feel sad, but there were tears flowing from my eyes into the tea, I glanced at Roshi, and he was crying, too. I was flabbergasted and

tried ineffectually to express my gratitude, but he covered my mouth with his hand and showed me the door." DQ Reported by Jane Bosveld, Jeff Goldberg, Shari Rudavsky

90 OMNI

bragging, bacause I didn't do it though I did name it. The Power and The Passion. A madwoman with a mean needie in Coney did it, one-handed with her hair standing on end, fingering her rosary beads with the other hand, and when I saw it finished, with the name ! had given it on a banner above it, I knew she was the best tattoo artist in the whole world and so I did not do her, I did not it was some very ignorant asshole who musta come in after I did that split her open and nailed her to the wall with a stud oun, but I caught the beef on it, and the tattoo that saved her from me saved me from the quick shot and gave me to Steener's people, courtesy of Villanueva who is, I should men-

tion, also Catholic So it's a tattoo that means a lot to me in many ways, you see, but mostly I love il because it is so perfect. It runs from just below where my shirt collars are to my navel, and full across my chest, and if you saw if, you would swear it had been done by someone who had heen

there to see what happened The cross is not just two boards, but a tree trunk and a crossbar, and the spikes are driven into the wrists where the two bones make a natural holder for that kind of thing-you couldn't hang on a cross from spikes driven through your palms fike a lot of people think. They'd rip through. The crown of thorns had driven into the flash to the bone, and the blood drips from the matted beard disthotly-the madwoman was careful and skilled so that the different shades of red didn't muddy up. Nothing muddied up: you can see the face clear as you can see where the whips came down, as clear as the wound in his side (which is whatchamacaliff, rendering of a stab wound I have seen outside of real life). as clear as you can see how the arms. have pulled out of the sockets and how the legs are broken

You just can't find no better picture of slow murder. I know, I seen photos of all kinds, I seen some righteous private art, and I seen the inside of plenty of churches, and ain't nobody done justice to nothing anybody ever done to someone, including the Crucifision. Especially the Cruciffxion, I guess

Because, you see, you cannot take a vamp out with a cross, that don't mean dick to them, a fucking plus sign, that's all. It's the Cruciffxion that gets them, you gotta have a good crucifix, or some other representation of the Crucifolon, and in your mouth if has to be sacred in some way, to inflict the agony of the real thing on them. Mine is sacred—that maciwoman mumbling her rosary all the way through the

work, don't it just figure that she was a runaway nun? I wouldn't a thought it would matter, but I guess when you take them vows, you can't give them back. Sorta like a tattoo

Well, that's what that madwoman believed, anyway, and I believe it, too, because like believing that picture happened, and the varno i'm sitting on it don't mean shift if he believes or not, because i got him and he don't understand how I could even get close to him. So white I go get my bag (giving a good flash to the kid, who goes into shock), I explain about pure fibers found in nature like the linen they say they wrapped that man on the cross in () think that's horseshit myself, but it's all in it being natural and not whatchamacalif. synthetic, so that don't matter).

and how it keeps the power from getting out till I need it to And then it's showtime

I have a little fun with the silver for a while, just laving it against his skin here and there, and it crosses my mind not for the first time how a doctor could do some interesting research on burns, before I start getting serious. Like a hot knife through butter, you can put it that way and be dead on. Or undead on. ha ha. You know what they got for insides? Me neither, but it's as bad for them as anyone. And I wouldn't call that a heart, but if you drive a pure wood

stake through it, it's lights out It lasts forever for him, but not half long enough for me. Come dawn, it's pretty much over. Them whatchamacallits, UV rays, they're all over the place. Skin cancer on fast forward, you can put it that way. I leave myself half an hour for the kid, who is not really a kid because if he was, he'd he the first kid i ever killed, and i ain't no fucking kid killer, because I seen what they get

in prison and I said, whos, not my ass. I stake both hearts at the same time. a stake in each hand, sending them to heil together. Call me sentimental. Set their two heads to burning in the cellar and hang in just long enough to make sure we got a good fire going before I'm outta there.

I'm halfway to the airport when I realize my ribs ain't bothered me for a long time. Healed up, just like that. Hailelu-Tah, gimme that old-time religion.

"As usual," Steener says, snotty as all get out. "the bulk of the fee has been divided up among your victims' families. Your share is three hundred." Nasty grin. "Check's in the mail.

"Yeah," I say, "you're from the government and you're here to help me. Well, don't worry. Steener, I won't come

He actualty cocks a fist and Villanueva steps in front of him. The woman with them gives Steener a really sharp look, like she's gonna come to my de-

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as an object

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What do you think?

I think if that pencil · doesn't have an eraser I'm breaking your fingers



fense, which don't make sense. Villanueva starts to rag my ass about pushing Steener's hot button, but I'm feeling mportant enough to wave a hand at him. "Fuck that," I say, "it's time to tell me

who sha is:

Vilanuave looks to the woman like ha's asking her permission, but she shaped have a sking her permission, but one shaped have a s

wains a piece a me "You really put them away?"

The way she says it, it's like she's talking about a couple of rabid dogs:

"Yeah," I say, smiling "They're all gone." "I want to see the picture," she says, and for a moment, I can't figure out what she's taking about. Then I get it.

"Sure," I say, and start to raise my undershirt. Villanueva starts up. "I don't think you

really want—"
"Yeah, she does," I say "It's the only way she can tell she's all right now."
"The marks disappeared." Wilson and

snaps "She's line. You're fine," he adds to her, almost politic.
She feels the side of her neck.
"No, he's night it is the grily way I'll.

know for sure." I'm shaking my head as I raise the shirt slowly. "You guys didn't think to sprinkle any

holy water on her or nothing?"
"I wouldn't take the chance," she

says. "It might have--" But that's as far as she gets, because she's looking at my chest now, and her face-oh, man, I start thinking I'm in love, because that's the look, that's the look on my own face when I stand before the mirror and stare, and stare, and stere. It's so fucking there Villanuava and Steener are looking off in the onnosite direction. I give it a full two-minute count before I lower my shirt. The look on her face goes away and she's just another character for a flash-movie again. Easy come, easy go. But now I know why she was so scared when she was here before. Guess they didn't

think to tell her about pure natural fibers.
"You're perfect," she says, and turns to Steener and Villanueva. "He's perfect, isn't he'? He couldn't join them if he wanted to."

"Fuckin' A," I tell her
"Fuckin' A," I tell her
Wilanueva says, "Shut up," to me and
looks at her like he's kinda sick. "You
don't know what you're talking to. You

don't know what's standing in this room with us. I couldn't bring myself to tell you, and I was a cop for sixteen years.—" "You told me what would have to be done with my husband and son." she says, looking him straight in the eye, and is start thinking maybe I'm in love after all. "You spelled that our easily enough. The agony of the Crucifixion, the burning and the cutting open of the bodies with sliver kinnes, the sakes through the

The agony of the Crucifixion, the burning and the cutting open of the bodies with siver knives, the stakes through the hearts, the beheadings, the fire. That dight bother you, telling me what was going to happen to my family—"Thirt's present on the present of the present of

"That's because they're the white hats," I say to her, and I can't help smiling, smiling, smiling "If they had to do it, they'd do it because they're on the side of Good and Right."

side of Good and Right."
Suddenly Steener and Villanueva are falling all over each other to hustle her out, and she don't resist, but she don't cooperate, either. The last thing I see before the door closes is her face looking at me, and what I see in that face is

I not understanding, because she couldn't go that fire, but alsoepatrose Which is one fuscing hellura lot more than hi over get from Steener or Willanusva or anybody the fuck else. And Sienere and Willanusva, they don't even get it. It went right by them, what I told her. They'd do it because they're on the side of Good and flight.

usey to on the side or spool and right. Lob if because I like to And I don't pretend like I aim to monster, not for Good and Right and not for Bad and Wrong. I know what I am, and the madworman who put the Power and The Passion on my cheet, she knew, too, and I think now she did it so the vamps would never get me, because God help you all if they had!

Just a coincidence, I guess, that it's my kind of picture DO

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 $=\frac{1}{2\pi^2}\left(\frac{2|m^*|}{\hbar^2}\right)$

MITERVIEW

igon holy people have been journeying to the suit and stars on a regular basis since the Navisho world began. They stop off on the monon on their way to the suit. In Navisho religion the suit is not seen as a burning ball of superhot magnitude of his culture he was asking a perfectly reasonable and serious question.

After talking it over the scientists decided that given his premises, maybe the old man did have relatives out there. Feeling badly at the reception they gave his question, they kept scanning the hills to see if he would reappear One day he did. Overloyed, they waved him in, making him feel welcome. The next day he came back with his grandson. The scientists told him they were sorry they'd laughed at him. "Please forgive our bad manners. We will be glad to take any message you care to give to your relatives out there " They ceremoniously hauled out a little tape recorder, turned it on, and told the boy to tell his grandfather that "he may speak whatever message he has into the machine, and his words will be recorded. The old man cleared his throat and very solemnly began speaking in Navaho, Abruptly, after a minute and a half, he was through. The NASA workers were set for about a thirtyminute harangue, because if they had

relatives they'd never seen they'd have The scientists asked the boy to tell them what his grandfather said. The boy just looked at his feet, blushed, and wouldn't respond. They couldn't get him to talk and couldn't get the old man to give the grandson permission to tell them what he'd said. So they broaded over why the message was so short Then someone remembered there was a Navaho physicist, Fred Begay, at the Los Alamos National Laboratory, They took the tage to Los Alamos and asked Fred to translate it. When Fred heard it. he doubled over with laughter. They couldn't get him to calm down for several minutes. Finally Fred told them what the old man said. 'Greetings, brothers Greetings, sisters. Whoever you may be, wherever you may be, watch out for these guys. They'll steal your land. This is just a story There is a nuclear

physicist named Fred Begay, a Navaho at Los Alamos. The rest is made up. But it has the right moral punch.

Omn. If current efforts to reclaim the Black Hills and other sacred Indian sites by the tribes who were dispos-

sessed were successful, would that revitalize the fribal religions? Ortiz: There is a national effort to return the sacred Black Hills to the Lakota-Dakota inbes, although they don't always stand together or what they want. But if 94 DMNI

they are successful, it would be a tre mendous force for revitalizing long lapsed ceremonies, especially the vision quests by the young males. Those Black Hillsmean to them what the indiplaces here mean to particular Pueblo peoples. It's important for them to have these lands as free and as pristing as possible so that they can go truly into nature for the kind of religious and spintual encounters they need to make themselves whole. They have to make sure people don't five within the lands, because they are not sacred if people are building cabins and so on. From a religious perspective, the Sioux leaders would want the Black Hills to be restored to a pristine condition. Let the presidents' faces get worn away. Yes, I'm sorry, but it's the answer I think they'd dive. Now whether the Black Hills will be returned or not is another matter. Because, well, Mount Rushmore is seen as what? "The

From a religious perspective, the Sioux leaders would want the Black Hills

to be restored
to a pristine condition: Let
the presidents'
faces become worn away.

Citadel of Democracy"? But it's a fight worth fighting. Own't Hypothetically, what would the landscape of America look like if Europears had never conducted it. If Native

Americans still had dömnior?
Ortiz That quosign a minelisel I di say sewer species—perhaps norte—avoid sewer species—perhaps norte—avoid dangered. Hurting was carefully regulated. Here among the Tewa tribes, a hunt priest and his assistants, reluding women, regulate harting. When this mid-land hurting the service of the sewer several services and the services of the mountains in the late winter. The sends word out. "No more hurring, because the termises will be with young, and your entain geting how pervendens so on." You have to take your meat be-

fore mating season.

Native Americans did not have an ideology of overrunning, of mindless expansion across an invented wildsmess using "pushing back the fronter" as an excuse. They didn't have these notions. So they could conserve and not take any more than would be received. From that point of view, resture would have been much more bountful. Personality, the land would have been webbut about wast fracted of stirty mined earth. The land orbits was so different—end is stift, with the survival postive American cullogically simple society. If the European san had never come. It would have guaranteed that things like aftro mining wouldn't have happiered because the means to rio open the earth and carry out cost by the millions of tions.

Omnt. Why are certain cultures so expansionist, always pushing beyond their harders, while others seem content to stay within their territories? Ortiz: Evolutionists would jump on this one and say that the tribes were not exconsignist because they hadn't evolved enough to form the requisite complex societies-political organization, control mechanisms for exacting labor, tribute, and so on Conditions were ripe for such evolution to take place in several places in North America, including the north Pacific Coast and the lower Mississippi Valley. But people there never seemed to want to go that route. Who is to say that European, or Near Eastern, or Old World models of cultural evolution should be followed by New World peoples? That's one of the great failures of scholars. They try to impose models developed in the Old World to explain cultural activities in the New World Unfil we stop doing that we won't be able to understand on its own terms what was going on here

Omn' Wedd you talk about the pacilarly haltow American view of time? Ortic Earlier we mentioned that Native American religions are set more in place and space han in time Native cultures also live more in place than time. Western cultures are driven by history a sense of linear, irreversible time. They're driven by unique events, pilad on by competing ideologies.

This reliance on historical time is of Ittle importance in Native American communities. They're caught up in many aspects of history because they're a part of larger, sociopolifical, economic groupings, like the United States of America. They can't avoid that But the driving force in their communities-the thing that regulates their ceremonies, communal life, political institutions, and once even their economic activities-was a sense of time being cyclical. The unfolding of the seasons and the adjustment of activities to fit different seasonal requirements are the best model. Economically that has broken down, because nowhere is the subsistence econ-

omy fully operative. Native Americans are caught up in the cash economy. Even in the oral histories, Native Americans tend to try to re-create that original time in rituals, retreats, pilorimages Thou try to reenact migrations and repeat important events in the-not histopr-but remembrance of their coming of age, of consciousness as a people It's not historical time dominating. That which is remembered is that which finds ritual repetition

Omné Why to such a large degree have contemporary Americans forgotten about Native Americans, their religions, and spiritual traditions? Ortiz: They came from another place. Europe, and they needed their own traditions to sustain them because they to and so much of the New Whrld threat ening. Look at the Puritans at the beginning of their experiment in Massachu-

the "city upon a bill " conquer, and colonize on their own terms, pushing both the forest-representing darknessand the Indians-representing children of the Devil—farther and farther back into the interior. They were almost hermely ically sealed off from considering what

the native inhabitants had Nowhere were the colonizers open to learning about the cultures of the New Waster procedure. The Porture spee were not interested in Brazil, the Spaniards evensylvenseles in South and Central America, the English on the East Coast of ed. The early European settlers never realized that had they affirmed the na tive peoples of the hemisphere and entered their workiview accented them as

enormously. How vastly different would have been the histories of any of the countries carved out of the European colories and the peoples' imaginations. Instead, they learned selectively; how to adant Indian tactics of warfare such as marching silently in moccasined feet, single file rather than British-style to bagnines and burdles, bidling in ambush in the woods, and so on

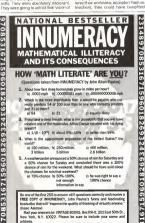
They never learned a responsibility to nature. Take the great auk. The earliest explorers reported seeing rock outgroppings off the coast of Newtoundland and all over northern New England just covered with them. The rocks poked white because there were so many great autos. But they were ungainly, nonflying birds that could easily be clubbed to death. Fishing, trading, adventuring expeditions saw they could load their holds with smoked low meat. So these plump flightless birds became name pray. The expeditions smoked auk meat, stored it in their holds, and off they went. By the 1840's the great auk, which once covered islands by the milhone was extinct. And we could reneat that story for many other species Own! What can we learn now from the

Native Americans? Orfiz: Europeans criginally did not apmuch come to live in the Americas as to plunder them. This plundering attitude still remains. The overuse, overexploitation irresponsible environmentalism. or lack of an environmental ethic in the earliest centuries led to the kinds of imbatances we now helatedly have to turn our attention to. That's one of the

23148970853167159601826932486978109651129185 great challenges of the future The remaining Native American cosmological worldviews are models for responsibility in the future. I'm not advocating that everyone become Indian in outlook-although that certainly wouldn't hurt. I'm saying that there are inspirational models still to be found among us. Our first task is to understand them and not sort them out only in terms of a priori categories. Evolutionism is one of the most harmful of those a priori categories. If you label something a tribe, you detract from living realitythat the tribes of America are among the most resilient, enduring political entities there are. Rather than taking the gyolutronist view that the tribe is an inherently fragile institution, a more steppingstone along the way to the state, instead see the tribe as a device for avoiding the state altogether Tribes, where they survive, represent that. By remaining as such, tribes avoid the problems of the state as much as possible. So evolution can be stood on its head and sent spinning down the road. This "up from darkness" toward an inevitable progress, or change toward more complex forms. is an impoverished explanatory device.

Evolution may be fine for natural selec-

tion. But natural selection does not de-



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pend on will, consciousness, intellect love moral choices. Those neculiarly human things are operational in a human society at any given time The United States might not have

gone from the Meydrawer to the moon in less than four conturies if the Europe. ans had affirmed the worldview of the tribes and made themselves one with the land. If they had, there might not be all Inited States of America, because the kinds of political organizations that forged this country out of thirteen quarreisome colonies might not have oncurred. Adopting tenets of an Indian worldway would have been a very healthy thing for this country-at any time in its history

Omn' le it Ion late? Ortiz: No not for a moment. I'd despair. if I thought it was too late. It's not too late to turn around the ecological catestrophe. But to do that, we're coing to have to draw on the arsenal of everything we've got. You don't use technology alone to clean up the mess techpology created. We were talking about new ways of perceiving relationships among human beings-a troublesome species—and the earth. Those ways are already there in Indian teachings, as is the idea of sharing the earth with other life forms and developing new forms of respect in order to develon new rela-

fronshins with them I'd like to tell you one final story. which I heard in 1970 at an American Anthropological Association meeting in Sen Diego. A group of Canadian engineers were looking for a place on a Chippowa reserve to construct an earthen dam. Those engineers are analogous to the Army Corps of Engineers, who always want to find an Indian reserve on which to construct this or that. They thought they'd found a snot ibut a medicine man who was watching their activtics told them: "Not here. The dam won't hold The earth is not right " They laughed, but they humored the medicine man and sent a sample of the soil lo Ottawa to have it tested. When the analysis came back it vindicated the old Chippewa's judgment. The scientists and engineers were mystified as to how this unschooled old man could know something they hadn't even suspected. The Chippewa explained: "The beaver will not use earth from this area. And if

not good for damming up water." He trusted the beaver to make impeccably correct decisions, because building dams is a beaver's way of life. To trust the judgment of beavers, one must concede that creatures "down the food chain" can teach you something. It Americans can look to beetles and bugs and butterflies for lessons or nerceive the qualities that native peoples have always perceived, even in the

roadrunner, there is hope yet DO

the beaver will not use it that means it's

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GAMES

By Scot Morris

You don't have to spend money in order to have fun with it. This month's Games column involves tricks trivia, and optical illusions with US paper money Take out your crispest \$1 hill and create a word new view of George Washing-

ton. Get your hands on

a brand new five-spot and see what's hidden in the Lincoln Memorial. We'll start with an amusing ontical trick you can play with a \$1 bill. The stunt appeared in Harry Loowne's Anacalyose a newsletter on magic. Although this was probably the first time this trick was published, Lorayne told me

he doesn't know who originated the idea but has heard it started in Janan. Vertically fold a new. crisp dollar so that the crease goes through the center of George Washington's left eye Sharpen the crease by running a findernall over it. Now orien the bill and make another sharp crease, parallel to the

first, through Washington's not t eve. Holding the bill with the two creases toward you, carefully pinch the folds together, pushing the quarter-inch strip down ward. The center of Washington's mouth is now halfway between the eye folds. Make all three creases permanent by pressing them with a fingernal

Open the bill, and loosely hold both ends so you can clearly see the portrait If you look straight at him. George looks fairly normal. CNNI



Driving force behind money. There is a wealth of Attle-known trivia on the back of your bills

But tilt the top of the bill shahily away from you and you'll see him smiling. Stant the top of the bill toward you, and George will frown. Tilt the bill back and forth rapidly to see Washington's expression change

Here are 16 other money stunts and challenges 1 OUT FROM UNDER Place a bill flat on the table. stand an empty drinking class on it, and balance a quarter horizontally on the curved rim of the glass The challenge Without touching the glass with anything, remove the bill so that the quarter remains perched on the edge. Can

you do it? 2. NUMBER COUNT The numeral 1 appears in 11 spots on a dollar bill. This doesn't include the serial

number or those numbers that vary from bill to bill, but it does include the 1 starting the year of the senes. and the Roman numeral Lat.

on the back. The rest are fairly easy to find, except for the eleventh. Where is it incated? 3. WORD COUNT How

many times does a word for 1 appear on a dollar? 4 TFNS, How many times does len appear on a \$10 bill? (Count carefully) 5 HARDWARE Where is

the picture of a key on a 6 REVOLUTIONARY DATE. Can you find the date 1776 on a \$1 bill?

7 BILL BUG Where on a \$1 bill is there a spiderlike creature hiding? 8 SEAL. In the circle with the eagle in it, representing the back of the Great Seal.

can you find six ways in which the number 13 is rep-9. HOW MANY EYES? Martin Gardner recently noted that each end of the

back of a dollar bill can be folded (at tk) to show "the face of a Martian." This suggests a new answer to the trivia question, How many eyes are on a dollar

bill? The two Martians on the back now bring the total to eight eyes. Can. you find the other four? 10 "SECRET" NUMBER

On a \$5 bil, find the num-11. STATE. Can you find

where NORTH DAKOTA IS orinted on a \$5 bill? 12 CHANCE If you toss a \$5 bill into the air and

let it flutter to the ground, what is the probability that it will land with Lincoln's picture on top?

13 AUTO On the back of a \$10 bill (see photograph), what kind of car is in front of the U.S. Treasury?

of the U.S. (reasury)*
14 OPHCS I limay be hard measuring the Lincoln Mamoral et alter the back of a \$5 biff, but this back of a \$5 biff, but this is not but to perfect rotarquiser proportions. The monument's columns are not quite parallel to one another but in fact this tight meant why a tight of the parallel to one another but in fact this tight, and what does the Lincoln Memoral May is this, and what does the Lincoln or monon.

Memorial have in common with the French flag? 15. FUNGUS Can you create a picture of a mushfooth by making two folds

in a dolke?

16 LEVITATION Place two wineplesses about four inches apart on a table. The challenge: Support a third glass, using only a dollar bill stretched across the rims between the other two classes.

ANSWERS

1. OUT You aren't allowed to louch the glass with farything," but because the dollar is already there, the bill is chivously not included in that restriction Carefully roll up the bill until it buches the glass. Continue rolling the bill, pushing the glass off with the center of the rolled-up evinder.

2 COUNT The other 1 is in the date 1787 at the base of the green Treasury seal on the front 3. WORD: There are nine words for one- Did you







Bill folds: Optical tricks that will leave you smiling

miss the Latin unum in the Great Seal? A tenth representation, if you allow sentation, if you allow spelled backward in RE-SERVE NOTE

4 TENS The word ten can be found 12 times on a 310 bit Most people mas counting its appearance in the word travel. 5 HARD/MARE The key is in the green Treasury seal on the lace of the bit of DATE At the bottom of the pyramid, 1776 appears in Bornan numerals.

7. BUG. On the face of the bift, look at the sheld around the "T" in the top right corner. In the top left notch of this sheld alls what tooks fite a tiny bug. It wasn't necessarily intended, but I like to think its the shipfer responsible.

for spinning the intricate "cobweb" design all around the borders on both sides of the dollar bill

of the dollar brill

8 SEAL Thirrisen stars
are arranged in a pattern
above the eaglets have
the eaglet series or the stretch
there are 13 vertical stripes
on the sheld, 13 ollives,
and 13 leaves on the olive
branch of peace in the
eaglets right talon, 13 war
arrows in the eaglets left
talon, and 13 letters in the
mother properties upon
the peace in the

motto EPLURIBUS UNUM 9. EYES George Washington has two, the eagle

has one

and the top eye at the top of the pyrend makes four Althoused to Benjamin Frankin, the They of Providence" represents the eye of God watching over the Union, symbolized by the pyramid's 13 steps in Masonic tradition the truncated pyramid symbolizes the unlimished Temple of Sofomon and the eye represents "the grand Architect of the Universe."

to SECRET In the shot of the shape in out of the steps leading up to the function Memorial, dark shadows seem to outline the number 172 Some people see the "secret number" as 372 or 3172. The US Tressury reportedly insists it is all an fusion—an unintentional result of approximation.

North Dakota 12: CHANCE: It's a sure bet that Lincoln will be on top. Even on the bill's

-ARTH

a software bank containing data collected by Advanced Very High Roson is ton Radiometer (AVHRR) satellites which are operated by the National Oceanic and Almosobaric Administration, WHRR satelites have been monitoring the earth's surface temperatures, vegetation, and a variety of other factors every day since 1976 Most of this information is stored on magnetic tages. "We have warehouse after warehouse full of these tapes."

Marron covo

Last December Warren completed a 4,000- by 8,000 pixel image of the earth. (Each cive) is a colored dot on the screen: there are 16 million nossible colors.) This in marhane the largest commuter image of the earth to date—that is, one containing more data on the screen, and thus, more information, than any previously done on a graphics computer. This year Warren will produce an image with much greater resolution-16,000 by 32,000 givels or helf a billion givels altogether (A typical 19-inch TV screen, by compar-

ison, has only about 10,000 pixels) Because 60 percent of the earth is normally powered by clouds at any given morneot. Warren has to combine numerous satellite pictures in order to get a cloud-free image of the surface. When he has a clear image of the entire planet, the digital data on file in his computer are transferred onto magnetic tane. The magnetic tane in turn is loaded into the computer of a digital camera and photographed directly. The film is developed and blown up into 36 more sectionscurved strips. Ike the peel of an oranda that has been sirred into 36 equal pieces. The strine are then nested onto the surface of the GeoSphere

A larger, and more elaborate. 21-footdiameter sphere will be completed later this year. This globe will reveal even more detail: Surface features of less than one

kilometer will be discernible. To create relief features, Van Sant will fashion mountain ranges, using sculpting tools and hypodermic needles filled with caulk. The finished globe will rotate synchronously with the earth, and city ights will appear as seen from space. The atmosphere will be simulated with a clear Lexan sphere extending three quarters of an inch beyond the GeoSphere's surface. Real-time weather patterns will be projected onto this "atmosphere" as the information is transmitted by Geostationary Operational Environmental Satellites Van Sant is also excloring the possibility of using gases or figuid crystals to mimic the atmosphere and clouds. All these characteristics, he says, will make the globe a "Ive Earth." After the GeoSphere is completed, Van

Sant plans to build an "Earth situation room" and virien studio where people can OMN

observe the globe and run various smulations. He and his colleagues are devising a new technique to display images on a spherical screen. Under this arrangement the GenSphere will be sur-

rounded by four or five projectors that can display patterns such as deforestation in the Amazon, desertification in northern Africa, or whale migrations in the Pacific The projectors will draw this information from an extensive research detabase. We can also project national boundaries, but people have to get used to aries" Van Sant savs

Groups such as the Sierra Club could use the studio to program specific environmental simulations. The GeoSohere, according to Van Sant, will also be an educational tool, traveling to museums for kirls and adults to view. And it could be a powerful instrument for scientific recourch, taking information about the earth elf a tlat acreen and showing what it looks the on a soften. Also a 'Venus-Softere' could be made to visualize data collocted by the Magelian mission. A spherical 3-D display system might even be used by football teams to view plays from

all cossible angles Van Sant hones to use his studio to make programs—what he cals Earth Soots-for TV news Several networks have already expressed interest. The GeoGribara's soom conshility should be narticularly useful. A video camera could photograph the GeoSphere, zooming down to an area of one square kilometer. To move in closer for even greater resolution, images could be produced from Landsat data and from serial photographs stored in a computer. The techname would allow news shows to go from a shot of the entire earth down to a smaller region and then down to a person stand-

ing at a particular site The zoom feature could out every story in a global context. Van Sant says, adding that the GeoSphere may give viewers a leg up on geography. 'Eighty-four percent of Americans don't know where Nic-

araguais, "he notes, "and ninety-two percontidon't know where Iran is Information displayed on the Geo-Schere could also be used to beef up news stories Van Sant points to the Exxon Valdez oil spill as an example "You couldn't learn anything from the news coverage." he says. You just got mad about it."

The GeoSchere however, could show international tanker routes, the locations of ships, the number of barrels of cil floating around, the sites of major spills, and the points of greatest jeopardy "We can take the basic recommendations-such as using double-hulled tankers, storing oil in numerous compartments, and radar control of routes-and project how much they'd reduce oil spills." Van Sant says. 'All these data are available. They're easy to program. But no one has bothered to put them together"DO

FAMES



back, there's the statue of Lincoln inside the memorial 13 ALTO B ian't any anecitic make of car Features of source) autos

were combined to create a generic car. 14. OPTICS Both the Lincoln Memorial and the French flag are carefully designed illusions. Perfectly vertical columps will look so if thou are tilting outward at the top. To compensate for this ilusion, the columns lean inward somewhat so that they appear to be straight.

The French flag, too, is an itusion designed to compensate for an illusion. Because different wavelengths of tight are percented differently throp stripes of exactly the same width but varying color would not look



strices of the French flag are made in the proportions of 30 percent for the blue 33 nement for the white and 37 percent for the red

15 FUNGUS Two horizontal folds, at slightly different angles, turn the log of Washington's head and the front of his shirt into a mushroom. (See Illustration.) 16 LEVITATION. Pleat the bill like an according, with six to eight folds running the length of the bill. This will strengthen the pener enough to support the weight of the third class DO

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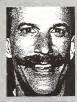
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LAST MOS

By Neit Bennett Wiruses excluded from labor markets may file discrimination suits And domestic enzymes could pressure Congress to tighten the quotas for alien. bacteria stowing away in French choose.9

Cleaning up America's toxic waste is a to aberating humanity from housework Researchers now believe that native

disaner drt. Domestic fungi may be the most prolound technical breakfrieugh Industry is already enlisting famished

from waste dumps, oil spills, and TV directs. The process is called blons biological Pag-Men without having to dental insurance. As the prood president of a New Jorsey refuse (18/0068) not only good business, but they

knadine if tomorrow's kids were to adopt a school of vegetarian spinits. Ima beans, saving their stomachs for Oleo peza. Even a neid would gladly swap a year's allowance for a pet

they work evenings, weekends and holidays.-scientists hope to sic micromemintars on a bost of domestic hith. Made to-order enzymes might inhale cidarette stricke and intestinal gas. purge four-letter words from magazines and rock videos. Biotechnologista speculate that no taste will be loo exolic on the Scarsdale fabric diet would smooth wrinkles from dress shirts and raminate static office. Fing around the collar will become as obsolete as the one-

car garage Natural ambodies may also be the key to better health. A pint of cholesterolstarved enzymes (the high-liber equivalent of 4 million bows of Ration water supply could cleanse plaque eman population:

Dermatologists foresee personal armogs and scart up navel int. Future generations might never know the

Flatletujah

The Occupational Safety and Health. Administration, Weshington's watchdog in Bacteria in a Drum, and Mr. Microbe will remade navious detergents in industrial

Contract talks may start before year's and Labor leaders predict this. streptococcus Jimmy Hoffus will atickate scre throat duty to correspond their gent unon in labor management regottedons.

a day and carrare. Antibody spokest aam their keep. Who else can a family cost at say was when they trick the electricity off and the treatest stocked with catrish ripe as a Jump-

from local lepos markets. They may file discrimision suts. Equally traublecome. Congress to lighten annigration quotes for given bacteria stowning away in

industry conceases the risks of challing. personal hydrene work. Though New York Only sould never again be held hostage the public could tack walkouts by in sink. erators and beg ladies. Worse, citizens might wake up and morners to find the family dog missing:

drafting contrigency plans should menace or go on waters. The EPA consume roublemakers. (Superbugs are mutant microbes generically engineered in a top secret government lyn.) These microscopic soldiers of fortune take no presoners. They live by the cocrus credo: Thave seen the

course, the those killer bons immspected. the Army Corps of Engineers might be called in to sanitize homes with atomic radiation and to dip the citizenty into Though elected officials publicly laud

rganism labor as a bitchin innovation for the activancement of our nation's resulth and coarrie consciousness. privately they are more caulitius. As one political poserver reconfly quipped. Postplans wit riover but the fut fath and backing of the United States gov-

Nat Bernettis a beekstod widd and