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"It is supposed to represent the hard work it takes to be creative," says artist Nicholas Gaetano of his airbrushed watercolor. Thus, Gaetano's "sort of heroic, God-like" rower navigates with pencils rather than oars. ONN ISSN 0149-80711 is published morehy in the Uned State and Canada by On'th Relations International Ltd. 1866 Finandamy, where Nr. NY 100245955. Second-cities protein paid and New York, N' and a distortion milling officers 0074458TER Serva additions changes to Canada Market Nr. North 1866-1864. Shallow the Number Copyright is 1986 by On'th Publications in Heritarization Ltd. An ignite inservate life 2019 66 600. ONly is a segmented miderance of One of the International Ltd. An ignite inservate life 2019 66 600. ONly is a segmented miderance of One of the International Ltd. An ignite inservate life 2019 66 600. ONly is a segmented miderance of One of the International Ltd. An ignite inservation International Ltd. International Intern



By David G

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CONTRIBUTORS









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class as the teacher droved on

editor Autom Kaplan's best subject couldn't understand it' she says. Maybe she directored Hostolat's classes and As part of Anges A Shown's "Pictures of Health (coope 104). Kaptan describes

have shown dinically (though not in people improves when they use magery evercises. But what about those of us who are carriedly healthy?

to the ceretinal cortex "he says. "I'm cheering them on to the limbs; easiers. nistic response Public participation in science might carn't cast inview with emore---or leven

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provident to Const Teste Discretes 1965

After writing his tasteful article Cox has

experts on mental imaging. He offers Our nationwide taste test will also

Take the Cores twee test before seading assistance of Kapiers Molanes Mcreech. renearch and asks if there's a penetic stimulate our taste buds in the twenty

his encounters with the unothical Treat a guit-ridden men who embraces his rein form of punishment 1984) won a Nebula award Jonethen Camplingersty won the

("Mr. Fuddlehead," page 681, a woman The ractional "Sixte Show" (page NR) teatures the work of photographers. who act involved in science by depicting

muscle cells, even mold exploding on an orange pool OO



LETTERS

COMMUNICATIONS

Love's Labor's DOS1 These been reading Owns for about a

Donald Darriey

Children of Invention
Albert Instance (Children Bay "NovaenZerr 1998) I said to inspect 7 this or absolutely respect to the control of the co

I med your entoire "Child's Ping" and lead the suggestion of a sister header mode out of each cerns. I am one years old, and I have an olds the in merchant that well keep kids our on their biles of leght. The biles would have bold-on leght shat would have only stapping on an exite pool and a bill will horn set off the high sharp as sensitive med past on the handless.

Scott Dorrete Temerac i

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A Becomd Operion Projection to dema has and representation of the man and representation of the project of the

Proture Imperied:
The Big Picturd view of Earth's Northern Hermachine in winder (Spood, Novem ber 1998) is left-right reversed. Observe the continents and the prevailing winder present in Desiry ways. Notice will make

Flatiert Spryce

Sound Reach, No

Editors' note: We thank the many readers who portfield out our error. The slide was unship-terror to reverse!

Setting the Record Stringht
In "Har-raising Science" (Novembor 1968), it was midskerly reported that Absham Lincoln had served in the Server He did not DO

TRUE CONFESSIONS

EOSUM

By Pamela Weintraut

were subtle differences between their out a December 1987 questionnare

to reports from hundrads of abductives.

dams mol/? Are they merely halluons the 'abduction experience' widesproad

about 450 completed questionnaires to answers on a computer-mady form

experenced missing time (a period of

unexplained fear of periodilar places, 3 before, 41 percent reported recurring

describing the abounce expension east! How many of those planning they d what UFOlogists characterum as an

The decision as to whether or not

Jacobs) warned Circu readers. To fact, conspous choice can permanently after friends and relatives and indeed to the world, will all have changed The corner also nave Otto madeox

some tosion choosing the right



OMN

E-Z LISTENING

SPACE By Anthony R. Curtis

VHF radio one right, when Prough the whine and whose of the state you pick up the following: tween two cosmonwas in the Mir space. (Otryously, wo've translated it for you): MC Let us work with Constant. The star

will enter the taleacope's field of vaxon for a long time. It must be kept in a small obsective, so try to let less light pass Yuri Rommerko worked with a Canopus must now be entering the

Mass Manerov. We don't see it. Wait. Hore die Wadin's record o MC. Muse don't forget to switch on the communication session, lat's try to Vinderer Triov: It was too dark to tell

frequency ranges used for communicatdignals skip around the globe, reflecting transmissions are line of aight-the in a direct, unabstructed line You can pick up those signels only while the spece orbitest are in view of your listinging frey are out of sight over the horizon Hones what you need to letern GEARING UP

Voca transmissions from spece usually are clear FM quality. It is you fou need a programmable high-bend radio receiver, or VHF communications 22 OMNI

MHz (magahertr)

General coverage receivers tune in frequencies from below 1 MHz in to 30 Mi-cr. You'll want to be able to hear a code (CW) and angle-adeband (SSB) adebands (USB and LSB) -- you'll find Introcentive (\$100 to \$300) SW auto are at department along ham radio suppliers, Ricky Shocks, and other much as \$900, however for a constitue.

satestive receiver to ture in SSB and expect to pay \$100 to \$200 satisfies shortwove impuercy wil sown

lower spirt moves away from your laterang post. Rether than constantly returning

simply adjust the dial to the listed frequency and listen to the pitch of the

craft approaches and persons if your SW receiver controls bandwidth, choose You may be able to hear using only the home for an anterwa. This will make your radio mpre sensitivo to weak signata. used for shortwever Place yours outside, high, and in the clear. An agrial one in your house. Remember, for W-F listening those must be an unobstructed

tall buildings, or the hersen between your On VHE you can hear you commurecitors between mean portrei and

both cosmonauts and astronauts. The mit while orbiting over North America) A Percently Mc commonauta started using ameeur radio gear to chat in English with hams around the globe tion LOMIR on 545 550 MHz. Amateur

radio buffs on the ground transmit to My What pion to hear? AMSAT a worldwise club of hams who build satellites a modem or a Touch-Tone phone dialer is transmitted on 145 812 MHz. Some signals are easier to hear than others. While Internetry is jourt and



ORGAN MASTERS



tin January 23: 2009, and Dr Nichnias. Fectusios, dean of American organ at San Francisco (UCSF) Medical Center syndrome, a rare liver disease that causes blood clots to form in the threeduce the 500 different functions a human

several options. He may decide to recommend senconfirm—harsplanting been made in organogenesis-cloning a living grown from faurean featurenot kept pace with those for other organs Finally, while the surpeon is eager to both remain in a developmental stage As in 1969. Forecases bent option compatible human-4 the UCSF liver unit

Fedurika loday, only a transplant could save her life. And before her doctors. sumount some mind-bogging logistical problems. Twenty years ago Dr. Thomas liver frameplant, prolonging the life of months, but even in 1969 doctors card body for more than eight hours. Faduska. the same blood type as Pranone within

After locating a suitable liver Fedusia twelve-year-old would from have to take

suppress her warrune system's inclination to attack the foreign tesus. Despite those efforts. Francine would have only While transplant surgeons have perfected their technique and impri smare a supply of doner organs. Only 1.990 Evers became available for transace some physicians call a "crass of

transplants, they haven! found a way to gare ded of ever laite. The organ short someol ornan choosana. By 1985, a. scant four years after its founding, the

Hiert best Alteroptors revolution

Virginia-based Linted Natwork for Organ Sharing (UNOS) had registered more than 14 000 Amendans on waters lets for a new hearf ledney liver or other organ all of them had left instructions to move they major organs available to those been enough hearts and livers-and Only 15 percent -- a more 2.500--

cove up they organs Despris wellnew laws requery hospitals to ask the pracity persons. The proteom.

guipusty prough, is not an unwillnances Gelup pole show 73 percent of Amen cans are willing to donate their loved ones organs, and more than 50 percent are ready to part with their own. The bollieneck is in the medical profession patients prove rejuctant to approach

family members to sek for cepans. Long therefore medicine will find better ways to mirrody kodney, heart. Their furni Sperfets expect senografing to century. While some of the earliest offices

the late Sixtes when a supply of human an occusional primate to human tracebest-known recent example occurred in 1984, when Dr. Leonard Bailey Ingraa human intent. Baby Fae, at Lome. Linda University Medical Certer in

THE IMPORTANCE OF HUGGING.

EXPLORATIONS

By Howard Bloom

by are some outures by or than others? Why do some societies seem to revei o victimos? One opsuble arrawer psychology, Wilham James Civilized life. the cradle to grave without over having ives James empled that without the

far less sevege anmosty survey at 49 premitive outures conducted by James W Prescott, founder of the National Institute of Child Hooth and Human Development's Developmental Biology Program. Some of the guitures. in "Willing, torturing, or mutilating the enemy." Others did not. What was the ing, holding, and carrying," says

their kids were naidbely people! The Prescritt's observations apply to harshly. They despise open displays. of affection. The result indirect adults For

works, let's meander nto the world Bedouin culture is the mother of all leism. Bedour are desert wanderers. across northern Altica, churry their flocks. company. The city children of Marcus

Muhammad's tartiplace, were given out to Redouin nurses to be subled armen with which Muhammed's follow-

the degeneration of the city rophyticals; they aweep in from the sends, thrust power and take over The Bedourreassent the ascetic values of the Proofits rot. But within a few generations the by the city's luxuries. Gradually they soften and become comple

cally grows too diffed, completes

Bedoun in their austern tents keep

went to study 'windpartone' relationships Egypten desert. Her name was Life abu Luchool And she had a unique advantother was an Arab In fact, he accomthe Muhammadan Tame, Islam perodishe would study Why? Had Abu-Luphod pade in hand, explaining that she was a

a woman alone. That could mean only cared nothing about her or she had committed a deed so immore! that her with bor its he wifed

tions, however, Abu-Luchod was accepted as a good Arab pel. She was Abu-Lughed did not report on the relators between the Bedoug and their revesing the relationships between According to Abu-Lughod, Bedouin applify outliess close, warm relationships

THE NOT-SO-GREAT LAKES

EARTH

By Justine Kaplar

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CONTINULUM

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Addron prophoson—but we warry about it at the sens."

—Arthur Hossen

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than steel but will do the same job.

The new wood called professional policy and particular was Googled Detek Barnes and Mark.

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-- Pili (awron

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use section of the contract of

d asthme Cores suggests if babes who suffer from surgests is babes who suffer from serrous health problems."

—Paul Kooga

CONTINULUM



-Did Lowren



ARTICLE

A QUESTION OF TASTE



as an edible body has been put into the mouth, it is seized upongases moisture, and all-without possibility of retreat. Lips stop whatever might try to escape; the teeth bite and break it; salva drenches it, the tongue mashes and PAINTING BY GIUSEPPE ARCIMBOLDO

churs is a tweather auding puthers it whearth be gift, the longs till sup to make it side and sip. the owner of and appropriate, it is a please the main second to be submitted to surely bear terroribmistips without in this window, second to be submitted to surely bear terroribmistips without in the similar product alrang bear meased by this perpation alrange terroribmistips and product alrange terroribmistips. The transplant industriany (bit, uniform and the surely alrange terroribmistips and the surely and and the surely are the contents of the surely and and the surely are the contents of the surely and and the surely are the contents of the surely and and the surely are and the surely are the surely and and the surely are the surely and the surely are the surely and surely sur

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bean' ana addi. 'Basic dioments of table are built in not remove mobile, says Bas-Tasta is a extramely mobile, says Bastochus.' Not of the nerves on one side at your forgue even annotative on one of the division basic on the state of the says three state manages that source the local of the longue in the book of the longue and the receptors on the passite and threat, and table is not dimension.' The system

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Australia And the craving for new tastes

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and favors is nearly imagistic. We long says one favorest for despiner foods favor substitutes fruit mind the real fring is set substitute fruits as about an artifacture of an artifacture sweether or had a sweether of an honey—without the potential health rapid of according and open makes.

an influence of the second of an artistic second of a secondaria and or creammas. Thousands of lasters—horistic service program with the second of a secondaria and secondaria s

#Isste is extremely robust. The system is wired up so that it is virtually impossible to left. The has one

to tell you that evolution is treating taste as a very important sense.

sourtes are typing to determine the links between diseases and task (Between seeding on sum to page 45 and side the Orner State State). Becestrehen die Inself was die side popular beicht, faste und sendi van unkanity opportung drypological systems of the wind and sources faste of the wind and sources faste of the wind and sources faste order lander omeil, and faste, kumping the dress logisher the way wer this passes, manifold

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From the vartage point of evolution.

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medical ilensation Morte To seculated set of containing and all counts As a synthetic of containing and counts As a synthetic order of containing and counts As a count of counts and strategiet of your and colors to the count of counts and cou

regenerate based on the inferrous map

we taste all four sensations on the whole

tengue, but the tangue map has never

one of the most moving accounts in the

been mended to see an ende zeich. Und die Thiefe der eine ende zeich und die Erfeld der eine Erfeld der einem zu der eine Erfeld der Erfeld

COMPRESSOR TO

ORAL EXAM: THE OMNI TASTE TEST





A) In one cup of water mix and packet of aspartame (Nurseawest)

C) in a fixed out of water, mix two









7 Rate the salaness of the sittle share.

15. Have you were self-and or tangets rule suffer from tohack as many of the	29. What tooks do you terpoversor the strangest countries for Leal the top five.	41. You inclined out to a pleasant is unpleasant
to lowing as apply) diabeles	starting with the strongest.	c hether
hypertorsen Archonis danses	2	42. Have you ever taken halupino nenio or actional drugs?
Gl displaces	-	a year to into .
Crohnis dieseus	30. What keeds of testins do you must	43 Figes, clid any of these drugs after your ability to taste?
Laciose ritolerance	offen crians?	a yes b no
PMS arrell disorders.	o sour d timer	44 Do you taste trings better at different times of the day?
tode deceders	3t Do you add salt to your load before, beging 2?	a yes ib no thiss, which time of day?
andrews economies	# App p 30.	a morning is alternoon
chig addiction	32. Virtual Kardie CE Specie die you crawe most?	45 Do you currently a note?
17 Do you ligitar a special dat?	a too is cartolydrated	W 266 () US
a yes 0,00	M. Check any of the following body	45. If yes, what do you smake and time
a vogetarion, it incomer to low tost it, tose challes and	Appropriate process	Anna Carlotte Control
Wash and the same	college cheese	47. Have you ever setokno? a. yes . b no
tilk information of characterists your day to clay class? a monotonicus, it wasted	Brusses spouls	48. If you, did your ability to task change after you skupped sincking?
20 Do you have any tood engine?	34. Do you ever crown things not con- morely commitmed load, such as also day, paper planter, or son?	49 What is the worst thing you have
25 flyes, to abut?	A 908 B to	ever taslod?
	M. Spin which?	50 What is the light you've ever paint for a postpolier food or beverage, are
22 If yes, do you sint crave those foods you give services to?	all. Do you sand to est the same foods your family done?	Wad was E?
a yes bina	# 160 p to	PERSONAL DATA
23, Which foods do you have man- sions to, if my?	37 How do you usually respect to new 150/31 ²	Ferrolo FT Moto FT Acto
	The state of the s	Height Winght
24. Old you ever have sucreions that-	-	# formale, and you program?
you no know have?		Etters or cultural background black when Asian Historical other
-	of exportance, with 1 being the most important and 6 being the loss.	Hispanip other Oby of residence
25. Describe the incident that country was to reparter on the investion	hutger tokehed basis greek	\$10,000 to \$24,899 \$25,000 to \$48,000
Proposition of the Contract of	emotional confort*	350 000 and up
26. How old wine you when it has	texture	A tasks test designed for individual or the classroom that tests PTC pe
beuse,	39 Compared with your fronds or your consecrations, you have that your sense or	resto train in humans can be obsained by sending a check or money order for
27 Del a single event level year to be average to a particular lead?	toate a	S8 55 to Human Geneters Teel 17-3000 Consists Businessis 2200 Vort Fices
a vot 0 00	b equally accesses c mass siccipio	Burington, NC 27215 for cell toll feet 1-839-334-5551. Reaction who Gins
28. If you wreak was 167	40 Do you have a fact its feed?	away for the bait should return the completed oxiestionners with name



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the Okiahome reluces camps, a low ber of the poorer Hispanics, mostly may tizos-unemployables who had hoped stead merely found themselves working for noth Maugan paucifies safter than for gers had been across the border to blow Aztian for another week's picking. They slouched suferly in their seets, some already anoning, many wrapped in ponchos or old Anny blankets against the increasing chill of evening. They ignored

Klasterman, even though in spite of his parefully anonymous clothes, he was The bus was spawned and old the seeks between in the efficient your updaystery smelling of sweat and smoke and values no arm and The frust saffed through the cold praise right with excursive slowness, lating and arching, the hanamasion growing and knocking every time the driver shifted poors. The heat didn't work, or the intener lights, but Klassterman set stoically, not moving as one by

one the blanny radios lacked and the

cryno bables quieted until Kleistermen Liberty Line, and its largely symbolic chain-link fence and stopped at a checkoval face glowing with sullen heat. like a

South of the border, in what had once been Colorado, they began to grawl up the long steep approach to the Reton Pass, the bus jittering and mooning like a soul in torment. Kleisterman was being he always did it seemed as if every time lids, faces he did not want to encounter or corecter, and his head would link up again, and his eyes would fly open. Ike suchtanly released whickw shedes As ent mesion. So he priched himself cruely

At Raton the bus stopped to take on

bullo in the window of a ramshapkle building that was being used as a fuel to pase it was very cold, and the inverted a million sty state, more than Kleisterman no sound except for a distant riverine roa

of cold wind through the trees on the surrounding hillsides. His piss stramed in The stars overhead suddenly noiselessly flared into diamond brilliance a dozen times as bright as 6 had been, and then fished guttering and was gone Klaiston man know that somewhere out there a conglomerates lought their stent and undecisied war, with weapons more obtherreelves to use on Earth. The wind styfled blowing through the triph velicy bringing with it the howling of wolves is along his spine in spite of hirrself. They were only the distant cousins of dogs. after all just dogs, taking to one another Feet crunching gravel Kleisterman went back to the bus and dimbed abound darkness. In spite of the truly bitter cold

wine, sweat, the small of digeratie smoke and manusons and carrie. He huddled if lost and if any of his old colleagues had execution of the strike Possibly Probably even Once again he had to fight sloop, in spite of the cold. Once he turned his head and looked out of the window and Melksa was there in the burnshed slyer moorlight standing alongside the he had failed to stay awake and jerked he other passengers tossed and mus boing over of smoky clouds, but Mehasa was gone Hist not been there Would not over be anywhere anymore. Kleisterman found himself nodding again and pressed

The bus sat unmoving in the seart town son Klesterman opuld ascertein, and then the dever appeared again, from who

knows where climbed aboard muttering the engine into noisy, pauching life. They rattled on through the might





term, stopping here and these as small villages and communities to idealing passengers, this hang over held francial controlling washingly from the box and rests. Kinderman steeping in split-aircraft disease, the washingly an appliness. Kinderman steeping in split-aircraft disease, the washingly an extend of the season o

Kleisterman dimbed stiffly down from the bus at Santa Fe. The sun had not yet streets were filled with watery gray light ors on a brisk morning. Restermen found bowl of green chili, was served the load try a sulen old Analo women wearing a renord greese and ashes. Klostorman lang had it been singe had really ondirectful to him these days. How long suggest anto him better observy coffee. Hold always been a tail thin bony man, but almost cadaverous. Held lost a lot of he checked through his proparations once again. This time he'd been very cann't about being traped. Held made his contacts with exquisite care. There should be no trouble

Like his root could be the country of the borney of the country of the

closely as disembers—no longer part of the United States but not neetly well intogreated into Dot Meadoo affeir, with a imract official presence of the multinationals but, pierry of back-market money crounting arryway.

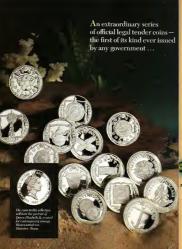
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fall possesses the control of the control
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a dusty started to a fred-foor office at turned out to be one of those slender applies Oriental men of indeterminate eighty Spare, neat, dry phiegratic The name was Chinese, but Klasterman sunpected that he might actually be Victnarrows, as his English held the slightest trace of a French appent. He had a sad face and hard eyes. An open, unachtered window baked out through the feck adobe wall to an enclosed courtthe carpet dusty and threadbare, but an muted colors on the bare white walls, and the testefully decoved ackly regring in the real rature. There was no receptionist just a dask with a complex of office terminals

a data with a complex of official intermition.

Kelestiemens could seed in the next possibility of the vision factoring as the first possibility of the vision factoring as the vision factoring of the possibility of tiple seed of tiple seed







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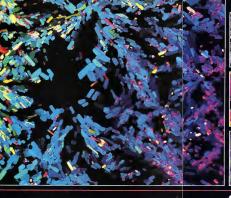
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Clockwise from left:

BY NINA GUCCIONE

How do you see relief? Crystellized aspirin under a microscope (at 10 × magnification);

magnification; sodium thiosulfate crystals and laydroquinone (25 ×); sulfur crystals (10 ×); crystals of

fluorescein (16 x): cyclohexanone oxalyldihydrazone crystals (12 ×); crystal acetylcholine formation (40×).

David Smith, an Australian. apparently has the Midas image of gold bubbles. Also shown gallium arsenide, utilized in solar battenes, an imdiodes and lawers Secondartibiotics that are recrystal







shoot through a microscope with a 35mm camera. Vanous Inc. Instrument Group, 623 Stewart Avenue, Garden City







Clockwise from right: in cultured vascular Gold residue and smooth muscle

cell (188 ×); a taste explosion—the cross section of on orange peel as mold crupts through the skin (60×); entibiotic crystals, beautiful and beneficial (100 ×);



Sr perso

Merit tastes as good as other leading lights,



Kargs 8 mg "far," 8 8 mg weeting by service that by FTC method

SURGEON GENERAL'S WARNING: Quitting Smoking Now Greatly Reduces Serious Risks to Your Health.



Confirmme Belley had a one-year approval form the hospetia is institutional new bear of the left the section transplant, his year was stress up, and he wanted to try the operation alliest once Despite the public outpry and the fact that Belly he left on the procedure. Let yee Columba Unwalthy asked as institutional neines board for permission to use either hearts as a to indust the second outpry hearts as a to indust the second outpry and the procedure.

his instenct on union the procedure. Let yet yet Chicken Liversity assistant son to use others heart as a bridge for potention meaning big for the management of the potential of the potential of the potential nation of the potential of the potential nation of the potential of the potential potential potential potential control of the potential potential passing in his will include the role of potential potential potential passing in the will include the role of potential potential potential passing in the will include the role of potential to the management and potential to the management present affects of the potential passing and potential to the management present affects of properties the temperature of properties properties of properties propertie

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represents a befarer partie of medical sectorization, but insensitions so yil stinct. Iday to be ministratived on the future it is read device that in made glucinosi future area device that in made glucinosi future area of the properties of mouth into the brooksteam probably the best inces for a seasy implantative origin, although well more for the probability and the dispetive future for an expension of the probability of the

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the did ones place. Crystopress, the last Aready delivering claired sein and blood vesteds to reconstructive surgeross and burn controllation surgeross and burn controllation sequences and other connective testing sequences from turns retroucing bone sequences from did other connective status controllation from the Study International Controllation of the Controll

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also like import helder in relection to migretic engineering that should make rangemen engineering that should make transpirite obsolote. Hemourper forsion a day when heldsh, remarkshopplaced rect to a falling organ and pendcially commanded to grow a new one only commanded to grow a new one may yield even more smortable actitions to our medical assenti. They describe they alone are as a few nation takes the pending of the commanded of course) themselves by the softers as they food frought our capabilities in equalities frought our capabilities of proof bodget in properties of growth proof to growth properties of proof bodget in properties of proof proof properties of properties

nets forecast a 50- to 100-year war for

these mesaum moar shaps DO

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yet has up to 27% less tar.







They call him the "terrorist of the lab," but this self-appointed scourge of scientific fraud has reason to suspect that as much as 25 percent of all research papers may be intentionally fudged

INTERVIEW

then I was young I always assumed scientists told the truth," says traud investigapy Water Stewart Today scientats, maybe many, he says Sodie with their data. lots publish errorieous results. But when something is published that turns out to be with indignation, "you almost

and oplicague Ned Feder have decided to redress this they have earned the enmity of a number of luminanes. David Baltimore, who has warned angrify that their actwises could serve to 'cripple American spence' Other collegaues just don't seem to appreciate their dedication Reviewing some of Stewart's early research, J. Edward Ball a deputy director at the concressional panels. Stewart (N.Ht. painted Stewart as a

PHOTOGRAPH BY MIKE MITCHELL

unfortunately chosen to waste his time grutibing around in the sewers of scientitio shanday sinth and fraud Officially Slewert, is a researcher at the NH in Bathesda Maryland, where his the shape of nerve cets in shalls. Much of his research time in recent years, howover has on his own inflative been spent rwestgating cases of questioned sci erics. Sewart and Foder receive more than 100 allegations a year that pubuse at least four times higher than the

number of complaints indeed with the Last summer Stewart joined macrolery tanous experiment that had just been outblished in Neturn and that was making Parisien scientists led by Jacques Benagreed to release his team's records to workshoof the French Medical Research documented a biological effect caused abody known as anti-ligE, or anti-mmuroalsbuin E. The experiment suggested cure patients with vanishingly small classes of medication. The scannibic world was baffled by Berveriste's claims. A num-

venete clamed to have observed—biopay the point where they could contain malequies of anti-lot—to be impossible seven times under verous conditions and Stewart decided the "impossible reacton' was a case of self-delusion. Bensome as witch-hunters. They had unleashed, he said, a formado of lectual pressure" and had "terrorized" his staff. 'Never let these people into your

ber of experts considered the effect Ber-

lenge to a paper published by high oroworkers attracted congressional attention. Stewart and Feder claimed that the groups own experimental data. They based their assertions on 17 pages of data discovered by Margot O'Tools a coauthors. O'Toole thought the data ought to be corrected in the scientific litesature. Baltimore and his coauthors disthat investigated the matter

Stewart and Feder also argued that the scentific establishment was trying to look NS CANN

the other way invited of myssicating in earnest. A three-man penal chosen by the NH to look into the matter included a tomer Mudent of Baltimore's who had collaborated extensively with him and a prominent scientist who had recently cryschored a textbook with him. The researcher who had stopped forward after

discovering the 17 pages of lab notes, megration found herself publicly de Whatever problems there were Baltimore responded anon's arose from masked to see the rest of the lab records ust to check Balamore refused "Externot envious at data are relevant? he argued only when probable causes of traud have been established. Balti more's stand was seconded by his peers project the message as "Let the old-boy network take care of it." Baltimore linally

> I noticed the inumel pener included a seventeen-

year-old with the disease. He was listed as having four children. including an eight-year-old devahter.

an avvistigating committee provided. among other things, that Stewart and found no traud. The per refused, saving they were engaging in the scientific trahowever, slopped taking about the case publicly while it is being investigated

Stowart argues that their involvement in cases like this is science not med unknown truths, and as such is bound to myolve errors But he says scientists twee a responsibility to correct pubcomes criticism but prefers (the focused on correcting tectual materies or metithen attacking his right to carry on investreators in the trat place. His critics selland, editor of Science has written that Stowart's and Feder's activities smaple of McCartyvism Acroid Relman, editor of

The New England Journal of Medicine,

warrs more omnously that "truth squads

only unnecessary but would also be destructive of the acreoble; spint inclinations as scientist and reformer re-School, he noticed a flaw in the procedum for casting votes dump class sasembles, is simple show of hands in the auditorium. Kids weren't apt to cast unspicuous. He designed and built a portable voting machine for class elections. using perts he scavenged at secondhelp from his psychoenalyst lather, came complete with latching askes, to prevent

After Stewart graduated summs cum loude from Harvard College in physics and chemistry in 1967. Harveof's Society ot Fellows appointed him a juriar fellow. This honor is cover to scholars not enpursue individual studies. He came to the NH in the late States. Though Stewart years, he never earned a Ph D

Today hy shares a windowess baselarge poliection of snails. Stewart is consedered a talented researcher who has duding the synthesis of Lucter yellow is own used to study nerve cells. In recent the productivity an unhappiness reflected in curbacks in his lab space and equipment. Lately Stewart has been spending less time in the NFH basement and more on Carriol Hill The NIH test acquesced in loaning him to a congrisstorial subcommittee headed by Michigan

looking into scientific misconduct Putting in 80-hour weeks on traud sleuthing has left him less time than held like for his family and no time at all for such chores as lown moving at their sub meedow gardening, has outraged his neighbors. The county government alled weed law, which creates the legal prosumption that plants over 12 nohes are clargerous to the public. Slewert, chileand county to a standoft Intervewer Doug Stewart (no religion)

tound scientist Stewart to be a man obsessed impulsive excitable precise and uterly serious, he would be the oursessentel eccentric were it not for the pertactly reasonable explanations he offers

Ome: The editor of Science magazine has a specied the "99,9999 percent" of published scientific reports are truthful Do you agree? Sewart Daniel Koshland's estimate is si-

MR. FIDDLEHEAD

Nothing comes between Juliet and her friend Lenna Rhodes—that is, almost nothing BY JONATHAN CARROLL

On my forboth burb. day Lenne Phodes lunch Thet's the tradtion-when one of us has a birthday there's lunch, a nice present, and a laugh-

moved one more step down the staircase. We met years ago when we hapcened to many into months after I said she said if to his brother Michael Lenna got the better end of that

wattorn She and Michael are shi daighted with each other while Encland I fought about everything and nothing and then got divorced But to my curprise and relief they were a great help to me dur- week. Their apartment is like their no the dwords, even though there life, high-perinagal, thought-out.

wern obvious difficulsome of the thornblood allegiance She and Michael lve in a big spart-ment on One-hundredth Street with iono helis and not much light But the gloom of the place orful inckets stacked on top of each other.

and negretary writers on the sade There is a home full of love and huery, children's drawings on the

Indge alongside remediers to buy Le Stempe Michael owns a very diagant vintage fourtain pen store, while I east the transferous for News-

PAINTING BY GERMANO GALLARDO



and noscitalities. It is always night to on I felt peetly good about being forty in the bank and someone I liked, talking about a top together to Egypt in the spring. Forty was a milestone but one that clidn't mean much at the moment. I stready thought of myself as being sightly middle-aged agovey, but I was healthy and had good prospects so so what! to

the beginning of my fifth decade. "You out your hear!" Do you like 17 "fou look very French"

Yes, but do you like #7

"I firsk so. I have to get used to it Come on in We set in the living soom and ste Elbow, their buil terrier, rosted his head on my knee and never took his eyes of the table. After the most was over we

a small red how I mady hope you like them. I made them myself Inside the box were a pair of the most beautiful poid earrings | have ever soon

You made those? I clidn! know that you medo jeweto. She looked happily embarrassed "You like from? They're real gold, behave it or not

"I believe it. They're and You made mally works of art, they look like something by Klimt " I took them carefully out of the box and put them on She plapped her hands like a get

Our friendship is important and goes back a long way but fits was a lifetime Before I could say that for wavfund cise), the lights went out. Her two young sons brought in the befoday cake, forty

candies strong

A few days later I was walking down Madeson Avenue and caucht by somefrom these looked in a swelly store window There they wore-my blittiday carrings. The exact ones Looking closes, open-mouthed, I saw the price tag. Five thousand dollars! I stood and gened for what must have been mrutes. I was shocked. Hed she lied about making tham? Or sport twe thousand dollars for my bethday present? Lervis wasn't a lac and she wasn't sch. All right, so she had from corned in brown or something and just read they were gold to make me fool good. That wasn't her way either. What the hell was going on? The confusion embolipened me towall-

right into the store. Or rather to walk night up and press the buzzer. Screeper rang. me in The salesgirl who appeared from behind a ourtain looked live she had TO CAME

overflowing with interesting combinations graduated from Redpirite with a decree in bevertodens. Meybe you had to to

"Nex. I'd like to see the perr of these earrings you have in the window Looking at my ears, she suddenly realgod I had a very familiar two thousand cinitars bancing from my earlobers It she would be my slave-or frend-to-"Nee: Ton as no first was of the proposition

The what? She smiled like I was being very funny it quickly dawned on

me that she must have thought I know very well what "Disea" were, since I was weening some She took them out of the window and

on a hair velvet cord. They were boaut-16 and admissing them. I entirely forcot Tim so surprised you have a pair They only came in a week ago "

← Our fnendshin is important and opes back a lana way, but this

was a present you gave to a spouse or someone who had saved your life.

Refore I could say that, the lights went out 9

Trinking fast I said "My husband bought them for me, and I like them so much i'm thinking of getting a pair for my sister Tell me about the designer What situs name Dise?"

don't know much, medam. Only that the owner knows who Dixie is, where they come from and that whoever it is is a real genius. Apparently both Bulgari and people from the Memohis croup how already been in asking who it is How do you know it's a man?"

I get the earnes down and looked directly at her Oh, I don't life set that the work is so measuine that I assumed it Moybe vourse note maybe it is a woman." She picked one up and held if to the light "Did you notice how they don't really rotect light so much as enhance it?

Golden light you can own, I've never seen that, I gryy you praised, then to the only other two stores in the city that sold "Doess" No one knew anything about the creator or were very respectful and pleasant, but mums the word when I asked about the jewelry's organ The gentleman asked us not to give out information mediant. We must re-

"But it is a man?" A professional arrile. "Nas"

Can I help with anything else, madam? What other pieces did be design?" As far as I know only the earrings the fourtain pen, and this key and "He'd special Now he brought out a small colden key mg shaped in a women's profile Lenna Phodesis profile

The doorbell trided when I walked into the stone. Michael was with 8 customer and, smiling hello, gave me the sign held be over as soon as he was forted. He had started INK aimost as soon as he got out of college, and from the beginning it was a success. Fourtain they are also a handful of flash and old-world elegands: gratifying slowness that offers no reward other than the sight of shiny ink flowing webly across a dry page. INK's pursonners were both rich and not so, but all of them had the same collector's flery glint in their eyes and addict's desire for more

A couple of times a month I'd work there when Michael newted on extra hand it taught me to be cheered by old reaces of Baselite and gold plate, as well as other people's passion for unemported but lovely objects "Juliot hill Roger Peyton was in this morning and bought that years Parket Duploid The one he's been 'ooking at

"Finally Did he pay full price?" Michael graned and looked away Rog can never afford full price. Het him do it in installments. What sup with you?" "Did you ever hear of a Divid port?" Door? No It looks like the Santos?" The expression on his tage said he was

I brought out the brochure from the owalry store and opening it to the pen photograph, handed if to him His resc-"Why that bestard! How much do I

have to put up with? "You know him?" Michael looked up from the photo, ancer and confusion competing for first know tem. He lives in my goddamned hazee. I know him so well! Dose, huh?

Wat I'll show you something, Julia And stay there Don't movel That shit " CONTINUES ON HIGH ST.

According to one neuropsychologist, UFO field-workers are particularly

ANTIXMATTER

These days camor seems to lark bathod weepfurg we est, dark, and de bit of the seems of the seem

nal weapons or from standy grown rays but other from instrue salarnal electromagmon felds Thata bepasses most UFDs, says Persingst, and sample onerchamena produced by enternely energetic process such as the movement of the earth so

sepremoid by electrical engineers and lactrices in optimized by electrical engineers and lactrices an optimize living near ownhead power lines. And studies have groups induced that they are likely to solder a high risk of brief hampers and leukerties, as well as depressed and success, than the normal population. These complications are also a concern for the UPO but

Petanger is not suggesting that people also investigaing LPOs. Not does his suggest that all hose wisis investigate. UPOs will develop brain tumors or other cancers. No exercises with strokes the notes, gets fung cancer) to, the wares. UPO researchers should take precisioners to bringing detection doughness to do the othy work and try.

LIFO LIPOATE

Persingers dence for the U carrier theory in once believe, is if is the bat if if the UPClease-duding J. Allen neis, the tarber of falls—have dies been sames. An least the others known to have mitted suiced.

Introver to have contribed suicide.

But UFO research as an extension with free example.

"It hank if a just a can controduced sale and many and many and a feet authors."

Gods, who spent is years in the field.

Goot, who spirit four years in the fact in years in the fact in westgeting UFOs in the mid-Bottes "Poblish" yest as many UFOsogata have died Nativork (MUFON) dissended Persinger's warning in 1 was afried to over

hisoriget however, countries that white many research wite about UFOs, few actually asend much time in the This fack of exposure, he adds means that UF serphies may not be the best population in which noncrites the hypothesis.



MICHIGANIC (198)

tust before the turn duty, psychos Ann sent and C. W. Lees

consider they would use powers to investigate the powers to investigate the spenish before Emest enford (below) proposed uplear model of the ty they described subno particles as small as len-throughed-beforth of oth Their models.

mo particles as small as ten-trousand blanch of neh. Their psychic ings, however, amained peed because they inted descriptions of obsurfaviant to specific surfaviant to specific and the psychiatric and the psychiatric appropriate who has led the psychiatric work.

a physical who has led the pophics' work, silesant and Leachestra a accurately describing the and superstrings gates in advence or this rally was contends their 38-year long study, his was completed in 3, office remarkable supnet evidence for more one visioning this applicer of wisesing the applicer.

TO THE

oviavido kuis istatu AFDI indivisuon cosilivido Had hadiline in the reputable an dally rewapaper Comdella Sero It sesmo that intella Esigand at a zoo hisoos, bay had to be illoyed after breaking a Willinn a week the dead

kangaroo s mate et throe tensell into the revine surrounding to pound and reports surade" began to to Findhes for instance, other die for no appearnt ressen shortly after the death a mate. And dogs sometin teltase to eat following a master a death conseque succuribing to standon. But outsigned and

But can armala conlously commit suicide? "I ow of examples where is annual disk and a effectly healthy made dies only therester?" says and Correct of Florida's glashed from the sport modest in tally Michel Valtesu, who covered the language succle story for Agence France Press beleves the language to question. India very desturbed by its mane's death. One

Twibs very deletition to a death. One of appixe with he assorbed the kangavery depressed its and certainly



or of the Archaeus Project which studies the phenomen of psychic research doubts Philipp's concuse He says. My gures is the

servic. My greese is that en if it's possible the direct sception of autoenome cossisses would appear ormously confusing and implex "—Rob MacGregor is sepring what is abvoud, yor oboose curning

ever choose curning hiting works batter" —Cyrishia Ozo

Why do so many UPO abductes and contactes between narreambook? Will if there are additionable to the contactes are as a contacted to the contactes are as a contacted to the contactes of a partner being pendented by James Deviction a set of a steel protector of intracteries and protector of intracteries above and one of the contactes as a disease to the contactes and one of the contactes and on

ng abductees and cor es than among the ral population. The in the general population out twenty three per

of in this greenist population book that green is any Dependent. Those or throw so that they were all you between the property of bothers and they were all you between the making cases add to be for the people report task-bothers are the post live or years following their bothers learn if they was a homolowy man an analytic and the second of the seco

Natiroska sand hills, to bumpos pointing skywin a territor tomason. Are rune cars form archway the circle. In the context upended ambutance for station wagens, and an complete the recentiliar.

perded ambulence, two altino wagnes, and an LTD complete the resemblance to in anount manument 5,000 miss sway. The scene is Cartienge aut by James Rengies at he

homealead free miles north of Allahoe Notrnaswi, in homege to Stonchenge to strang Sarain Carde Why replicate the ancient size with cast? It's a plea," Benders see, "And it's fun."

But some residents of "Allahoe do not stone

A carry? It a a job. Renders assy. And a fair.

But some historia of share.

But some historia of human Within day of compliancy of human Within day of compliancy of historia recovered of historia r

Attance by manager
Weitigung Bauer gave Reders 180 days to remove
Carhangs or apply for a
1 special-use permit Wross
IS Bauer. This will allow soo
aspyress for artis, take
in , ensure that the dystore is

nemoved in process of the state of the province of the provinc

noil granted a special used on the condoon the raters get liability meure and put in a parking wastes We carrie, we saw we

herged Randers says epitaph for his new numers his adds is Ru leace "—Manya Salee tos ambarland on a

opitiation involving gre priumants ino leader o ford to relax Alfred Kid





TASTE

other area that needed to be usermed." he save, "and my students would pick up colleagues like Linda Bartoshuk, Marion Frank, and Inglis Miller-today's allooharden manters like the connector inc. tween taste and the limbic system (which controls involuntery function), something Pfaffmenn had long suspected An astonishing proportion of the fundemental principles of tests studies over their discovery to Pfulfmann and his ouoils. They have found that the chemistry drocen ions or more precisely, hydronum sons Phydropen fore attached to found in table salt (NeCl, or sorkum chio-

ride). Sweet substances, the sugars, cule that's shaped like a transle, called the AHB comme transle. Bitter foods also chemical makeup of awest and bitter compounds is so similar that when sightly altered, they become better. Drop any substance, sweet or bitter. small molecules. The cliuted tood befree thousands of orango-shaped teste buds located on the longue, palate, pheryrix, torsits, escohagus, the roof of the mouth, of taste buds duster around trry bumps

called naprilee lardio Miller associate confessor of anglomy at the Bowman Gray School of Medicine at Wake Forest University. ing at longues with a powerful microacone Reporting the images on videotaste buds varies from person to pernon-up to an astonishno tenfold differhave more than five hundred in the same area. The average is about one hundred to one hundred fifty," he says. The ability to discern flavors-the big "gestat"-of taste buds. "In simple terms," Miller belinurs. "people who his morn tests buch taste more, people with fewer taste buds

Fach teste bud, in turn, contains some the surface of each fibrotte are several microwill, triv harlies projectors that TE OMES

on the teste bud. Miller suggests. Try to picture an elevator full of people needs in through the transfoor at the top.' The Fibrottes are miracle workers, regencrating about every ten days. Why does it happen? "We don't really know." Bartoshuk says. Tout due to the wear and lear on the mostotor cells in the mouth able parts" Among nerve cells, only the offerfory and taste receptor pale constantly grow, develop, die-then reckage fromsolves with new cells. It introcess all your life," size says. That may be why older people have good taste systems Given the wide variety in taste and in chemical structures that proclude each particular taste, it isn't surprising that retaste qualities in different ways. The so-

€in a sense. taste researchers have pointed out. Columbus's discovery of the New World

was simply a freak accident triggered by the insatiable demands of the Furnnean nelete.

taste receptor These channels are precisely the right size to permit sodium positive charge excites a series of reacmoter from the far end of the cell. The reurotransmitter crosses the synapse pount nerve cell snapping the latter to attention and shooting the taste messubstances are far too large and comples to peen through the mospfor out's ceptor cell. Sour-tasking acids may actasily be charmel blockers. As there are

positively charged potassium rore out.

the poissesum cans build up within the re-

with sort and hearing) servicing the taste. moreotors but these the severith rints. and tenth coarsal nerves (the eighth nerve being the auditory nerve). These three of the body. The trio relays arguels to the medulia, where second-order neurons, the brain's microchies peoples he inappropriate departments in the bown

At this sunction in the outney the table The medulie subjects the taste message the human brain, the dossel thelemus and the sensory occubral contax, responsible for elaborate problem solving. The secthelamus and the armodala structures be system. The old brain is a "wayprimines or channels in the membrane of the five region of the human brain, controlling involuntary responses," says Misnon Frank, professor of biostructure and function at the University of Connecticut sponses occur in the limbic system. It's handword to react automatically to a va-The limbs system is taste's connection

sponse. The word herdonic comes from the Greek word for 'pleasure' and it is the limbs connection that allows us not note to set our food but to priny it. While the regioning calculating parts of the bosin can tell you you've entire "a britersweet substance with a smooth texture and cool temperature," it is your limbo system that says, "Mocha almord mousse: let's have some more" The pleasure for pain) principle in taste is re-Broom Art might emiss and sucks when he tastes bifler. There are particular taste qualities that are inherently present or terrs-one that signals the quality and intensity of basis, and another that prowifes a hedgoin component. Smith stars. Because the cerebral cortex is printed with the limber system, we not only discover what is in our mouth but have a pinetur-

Taste, Ifee hernings, is subject to the and quickly switches to the latest in food Inthons from Gel, your-considers of finvor creation and application at interne tonal Flavors and Fragrances AFFL to collect in South Brunswick, New Jersey in chemicals.' Working with a palette of houseds of substances—special oils ceptor cell, from it with their positive greate, say a picture of a streeterny Choceano from 10 to 200 ingradients, he

The process motic take several months or several years, the cost, well into the hundreds of thousands of dollars Gel says his job has cotton toucher over the cast 15 years. The American have tasted firish papera and fresh kiwi and demand a flavor that reproduces the he would have used fewer ingredients in a favor 20 at the most. Now the consamer is teste literate, picking up subtleties he wouldn't have noticed before, "so

The sophisticated consumer is tickle as well as fracky Peach has been the 'het' flavor for the past couple of years, a superor favor" saws fall Zick vice president of marketing for EE The Bayon perfected the real thing so well "you could not only taste the fuzz on the peach skin. The ammunica were mind-bogoling. he says. 'The guys who created DeRuyper Peachtree Schregge reelly hit a home

our with that What fouris will we want proof? "Fitners and regional" is Gel'8 guess, "the Southwest specy tasse or the Southern smoked red raspberry. Zick agrees with the nachery predictor, saying black raspsalay, an inclonesian flavor that Zick doacribio as "beefy peenut," as well as mysterd and honey reposition or together for a sweet-and-sour effect, will gen n popularky Ones Girl think he'll be asked to de-

ture, the little green pill we pap into our mouths in the morning to get our diety supply of nutrients and intamins? No way Siting down to a meal is an waret 1 his says. 'In the future food will be easier to

What impours both flavorate and sowe crave and foods our bodies require for good health -- the difference between Why do some people liken (even prefor) a good meal to good sex? What about the chocoholios who much for the boxbon box after another retationship fals? What about the carb cravers, or the sail fronts who dump half the salt shaker onto ner? Are they sust obsessives, or are then bodies telling them something? Some scientists would say that their bodies are trying to relay a primitive, visceral message that should come as a We a biochemical scream. The pame quiert in the case of food obsessor is.

Cravings seem to have that desporate,

authoral component to them, and it has

CRAY

been tound that when the penters of have been mused, the lambic system ensures that the animal will still respond

The evolutionery organient that sugar tend to be beneficial a widely accepted The critising for self-despite recent discovering that microstown suit, plake carn be hazardous to your health-may actually stem from an evolutionary disposition samilar to the sugar reflex. Marton Forck argues that sodium is a vitial chemical used throughout the body in various important processes of cell metabolism prmarily vegetarians, sodium was often in short supply Says Frank. "The ability superior progrism" Explaining the drive to consume salt in excess, Frank sup-

6Thousands of tasters-chemists whose tonques are their fixe@hooris-ere attempting to satisfy our oustafory wants, suppring full-bodied

liquids as wall as licking sugary concections.

paidby, so it made sense to construct an quantities to have in reserve What about the so-called carb cravers-people who would give anything for a plateful of carbohydrates? Adam Drewnowski, denotor of the Human Nuprice Perceam at the Linuxesty of Mehigan School of Public Health, says that seeky keen on is a combination of suppoand lat. When we dream of that Snickers two or that appoints of Historn-Daza combination of the sweetness of the nuclei and the schness of the lat And that more. our imagination, says Drewnowski 'Drawings are triggered by some lend

plains, "some urge in the body for swilhealing" it's not just psychology it's also obviology. The choop/ate or the sce cream really does make you leet botter According to recent research at the Unigraphication is retart. When sugar is present in the mouth, levels of insulin and of opiates (natural narcotics) in the brain increase "That's an immediate hormonal pens too quickly for the sugar to have mechani the storrach "says Dissercesis lens University, researchers observed an arrespense effect—the rada were less rosponsive to pain when given sugar and fgt. They traced the rats reaction to this combination to their earliest experiences as newhorns. Mother's milk in rate contains opiate peptides. This products an mmediate reinforcing effect in the intant taken of manuscripts made barners with country peolicies encourages the baby rat to sucide again. And the milk fat supplies it with most of the calones assential for The oswere for fat in certicular has

growth and development been studied by Susan Schiffman pay chologist at Duke University in her work. with people who are obese. "People greats, "The location of salt in nature was high flavor and toxture in their toodcornely be? says Schiffmen. Thise out the tel in your diet, and you take out the favor "Schiffman proposes that each of ustes a "favor set point," a level of fibior we get "Until we reach that set point" says Schrifman, "we tend to keep eating higher flavor set point than an averageweight person

cater's cravings? Simple If it's flavor he craves, give him a double-berreled berhas developed products for Nutri-Systerm, Inc. of Willow Grove, Pennsylvania including Flavor Enhancers and Revor Chews Enhancers are low-cal powders made to pour over chasse, butter, chocnists, honores, even on Mexican or Ital ian dishes to bring out the flavor Chave churks of calone-free testured fruit, keep your tongue and jews busy and your Rohave shown that the extra blast of flavor the people who crave more and more figso called taste disorders. Not surprisincly, new work in the field of teste decrders is being pioneered by Carl Pfattmann who came out of retrement to work on the project with his former student

Bertoshuk Only this time Platfmann himself is the guinea pig. As he discusses his new work in his office at Rockeleter Manhattan, he draws a neatly folded handoeschief from the breast pocket of his blazer and raises his half specs to wao his eyes. The left one has been arinchim trouble repetity teering often. This is a vestine of an liness Platfmann suffered six months acro, herpes zosser obcus (dricken pox virus), which left one ade of his tace paralyzed and caused deatress in one ear Inorically, Plaffmanns tiness deprived him completely of his ability to taste anything at all on the left side of the front of his torrawi I came down with the disease last May," receils Plattmann "I was delinous for four clays. They even had me in a

his illness and its debilitating consequeroes Philipson has sport the last six months working with Bartoshuk, measuring the process of regeneration. "It's fasgrating that one of the most timous peotaste disorder and that, as a sciventist, he is rhickyno 1. Bartoshuk sava ability to taste, he had no awareness that

specific areas. Now it's regenerating, and he and I are measuring that recen-

The National Institutes of Health (NIH) in Betherds, Meryland, estimates that more than 10 milion Americans suffer disorders. And NiH studies from the early people visit doctors each year complaining of problems with tests or small Poople who sufter from depression such as an inability to experience any kind of oleasure often complain that food target the carcingent Many other people seek help because of distorted tastes-sugar doesn't teste sweet or quoine better. After inquiring about past accidents, taste researchers usually find that the person with confused trains has mired the back

Viral intections and extremely bad golds gan also gause teste disordersboth temporary and permanent. And during dental or ear surgery the taste rennes may be severed. "Unfortungery. with taste disorders. Bertoshuk says For service expenences like texture and temperature, she says the experts call a "phantom" taste pertoularly a safey or bitter phartom, in which

frough the stimulus and propert. Researchers don't know what causes the Several years ago a women arrived at the nime when Bartoshuk works completeon the tip of her tongue. It never never move Then Bartoshuk anesthetized the whole totous. The phantom became

that needs to be tunned off, and a phanform mensioner may be produced by some ogist administered an anticonvulsive drug peased. We took her off the door, and "These was nothing else we could do taneously disappeared Many people undergoing cherrotherany toyatment for nancer often nomolain.

based on her studies, that these people are especially sensitive to hitter tastes. artivity to bitter lastes, and the reason is cherrical pherylthocarbamide (PTC), accentists believe that two thirds of the US nomination find PTC extremely batter. They are called testers. The one find who don't taste anything are the nortasters. It you're

 As the year 2000 rolls in, we'll opt to charge our tonoues

with "electric taste." Fruits and vegetables, charged with either positive or negetive electrodes, will

on sot in our mouths with flavor.

a taster then you have the gene for tasting certain lends of bitters, also Bartoshuk and the gone is dominant if you're apy drugs are PTC sensitive. Tasters say that many subscances are bitter to them. including callione sacchann potassium chloride (salt substitute) cabbage. Swes ers also land a variety of awasts to be more intense then nontesters do Genetic differences and a senor off-

older they are less able to discriminate erroring Bewons, state on they can't sever the could when they were younger These liever leases, however reflect loss of smell, says Bartoshuk Taste remains relatively unsuperred. The given work mean age of eighty four their taste data looked like those of Yide underproduor salky but the loss is very small. What's going on? Smell is the culpit, most scfive and eighty, half the population expenerces some loss of smell Over exchi-

There are many gaps in our knowlof funding problems. Miler laments that government agencies and medical schools lend to place a higher progray on funding based on the questions. How severe is the debitation? and "How more people are complaning? Miller funks By the beginning of the next century 40 percent of the population will be older

arring population, Miller says, "we I have hear too well. They gut reading they guit Islening to the radio but they confinue to eat. No matter what eithe is come. They can And up researchers await the day when the remaining addies of taste will be solved Bartoshuk is easer to determine the genetic differences among individueis. I think we live in different taste workfold the year "When a family not down to the circher bable, each person is prohabily haveon a different toste evoyoby to faste in influenced by our genes? beg emply areas in our knowledge. Bartostruk claims, is how the central nervous

Researchers also hope to decipher the Herness assistant professor in the neurotadopy and behavior laboratory at taste physiology might stumble upon how soness. "Taste is simpler than the mucharisms for hearing or sight," says Horness. The mechanism that can detect bar is obviously loss sophisticated and of us in taste research may get the privo? first because taste is a simpler sense. message from neture that there's somein right at birth, survives even if severely damaged, and confinues throughout

most people's lives OO Associated by Medicale Mesosisi Flins Kirons

FIDDI FHEAD

counter at INK. When Michael motored off to the back of the store. I looked at He was back in no time. "Look at this You want to see sometime beautiu?

in a blue velvet case I opened it and saw, the Dose fourtain pan-"But you told me that you'd power His voice was hurt and loud. "It is not a Divin to intan pen. It's a Sirbad. An orginal, solid-gold Sinhad made at the

Konstanz Germany around 1915 There's a rumor the Islam lutared Artono Sant Eila did the design, but that o If was nice, but he was so angry I wouldn't have classed say it wasn't. I nodded eagerly. He took it back. "The been seling pens twenty years, but I've only

seen two of these in all that time. One of from was owned by Wat Darrey and I have the other Collector's value? Altro d seven thousand dollars.

What the Dain people get in trouble for copyrio it? No. because I'm sure they rether bought the design or there are small differences between the mornal and the

one. Let me was that brochure again." That you have an original Michool It still holds to value "That's not the point. It's not the value

You know the classic bathub Porycha? One of the atrangest, greatestlooking cars of our time Some smart. cympal person realized that and is now makers threaters sodies at the first. But it's a lie car, Juliet; snrff it and it smells only of today-little plastic frings and clewity out comets you can't see

the real object "The wonder of the thing was Porsche

designed it so well and thoughtfully so long ago. That's art. But the art is in its Benamer Swire Fourtain Fon Works in onaine everything not just the look or

Ticen guarantee you that your Does pen his too much plastic inside where you can't see and a gold point that probably has about a third as much gold on t as the organal it looks good but they

"Look, you're going to find out soones

What are you taking about?" He brought a telephone up from befew words told her about the Dixes, my discovery of them --

Michael was looking at me when he assed. Did he tell you be was done that, Longa?" Whatever her fond enswer was it left

his moveston deadoan. Well, his oping to bring Julet home. I want her to meet him. What? Because we've got to do somethino about £ 1,6000 Maybe she'll have an idea of what to do. Do you tenk this is normal? Oh, you do? That's interesting. Do you think if a normal for ma?" A data of solve connect of his inand flow across the store.

stood right on the other side, arms consed bott over her chast Her soft lence. Whatever he told you probably per times Juliet

put up both hands in sumender "He didn'i tell me anything, Lorna I don't even want to be lives. I just showed here

Which wesn't strony true, I showed him a picture of a pen because I wanted to know more about Divin and maybe my five-thousand-dollar earrings. Yes, normetimes I am ness Both of the Rhodeses were gain and

them resily dissorres on anything import-Michael growled. Where is he? Estno soun?

"Maybe So what? You don't like what he eats arrywdy. He turned to me "Dur quest is a vegetarian His layorite lood is plumpits."

On thef's meen Michael That's really mean." She turned and left the room "So be is in the kitchen? Good. Come. on, Juliet ' He took my hand and pulled me behind on his stalk to their vigitor Regime piono Scott Jopin?

A man sat at the table with his back to us. He had long red hair down over the cotter of his sport jacket. One frecisled hand was tiddling with the dall on a

Lonna's best frend, Juliet Skritchdopole He turned, but your before he was all the way around. I know I was sunk. What a tace! Ethercelly thin, with high checkbooks and does not owen every that work book eyes. the carroly hair, and freckles everywhere intow could freckles suctionly dron and oute advertmements. I winfed "Helio, Julieti Skotchdopole, is 47

Theis a good name. I wouldn't mind heer it mast it's a lot beter than Fidikhead you know? His deep voice lay in a harmnock of a

very attorno insh accord Lout out a hand, and we shook Looksgiftly across the top of his hand. I felt hot





and dizzy, as if someone I wanted had was a plate of something on the table

To stop staring so embanassingly st him. I fogused on it and realized the plate He picked one off the shirty orange-

gracked loud. Ike held broken a tooth but he kept his aron is arrive on while crunching away on the plum pri I looked at Michael who only shook

less. He only smiled and went on part is I led about your birthday present. I really living " She smiled as if she was

he was poking around in the refrigerator What do you mean he's 'you?' Michael took out a parton of milk and aggeratedly offered his wife. She made

a face at him and snatched it out of his hand Barg 6 she said 'Remember I told you I was an only child? Well like a lat of binely kids. I solved my problem the

best way I could—by meleng up an magnery friend " My eyes widened. I looked at the redheaded man. He wirked at me

Lerra west on "I made up Mr. Fiddebeat I read and deserved to much then that one day I put it all together into I thought that was the funnest name in the signici-screetings that would always. make me laugh when I was sad. Then he had to come from heland because life-size human leprechaun. Held have

I wanted the magical ability to make gold bracelets and lewelry for me put of Which explains the Dies jewelry in Michael nocited Trie said be not bored sail hanging around, so I supgested he do something useful Everygarrings and key chan' He slammed the glass down on the counter. But I today What's with that, Fiddshead?"

Because I wanted to try me hand at c. I loved the one you showed me, so I trought lid use that as my model. Why not? You can't improve on perfection

I put my hand up like a student with a question "But who a Dieg?" Lenna smiled and said "I am That was the secret name I made up for musel when I was little. The prily other She stuck her thumb in his direction Wonderful! So now Dose fourtain will be bought by every asstrole in New York who can afford to buy a Placet ma sick." Michael glared at the other man and waited beligerently for a reply like Whody Whodpecker Which cricked

with Lenna and me up

Thry both nodoled Bot I had an magnary frend too. when I was Intel The Bimbergooner But grough Maybe you sist cooked him up to talk to in Lenne's case, the more she

Everyday People on CompuServe

Take a Trip.

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needed me a lot One day I was just frere for good. I looked at Lerna "You mean he's been here since you were a gif? Living with you?" She lisuched "Yo As I green up I

She laughed "No As I gree up I needed him less I was happer and het more thanks happer and het more thanks "She hadhed over and touched his shedder to entitle the shedder is entitle to the shedder it entitle that it was a sad one fall of memories." I can give het post of gold or memories. I can give het post of gold.

his smided, but it was a said one hall of mammars. Then give her post of gold and do great tricks. The even been practicing weetsloguisth and can throw my vision a little. But you'd be surprised how low women love vertriopures.
Thyou ben'll excuse me, I think I'll go in the other soom and watch I'll with the hows. It's about a time. It feel I have. It's about a time. It feel I have.

Stoges Remember how much we loved that show Lenna? I think we saw one episode at least tentimes The one where they open up the handnessing salon down in Microco?

"I remember You loved Moe and I loved Curly."

They beamed at each other through the shared memory. "But west, it hals, what you say, how come he came back now?"
"You didn't know it, but Michael and I went through a very bad period a titla

while ago. He even moved out for two weeks, and we both thought that was if no more manuage. One right I got into bed crying like a tool and watring to hell Mr. Fiddlehead was around again to help.

Mr. Riddlefread was around again to help me. And then suddenly there he was standing in the bathsoon door smiling at me. She squeezed his shoulder again He covered her hand with his own.

"God, Lorna, what did you do?"
"Screamed I didn't recognize him "What do you mean?"
"I mean he grew up! The Mr Fiddle—head i reagened when I was a child was deadly my age. I guess as I got older, on

seastly my age. I guess as I got older, so did he timboes sense! These to st days the state of the standard of the standard of attempt of my life. "Mr Fiddishead pumped up and gave ma he seat I book it he left the count for television with the boys. I watched him go Without franking. I period up without in I and on the I period up without in I had a my country.

you told me is true?"

She put up her right hand. "I swear on our friendship."

Ther beautiful man out there is an old dealer of security.

"That beautiful man out there is an old dream of years?"
Her head recorded "Oth; do you think he's beautiful? Reality? I think he's kand of furny looking, to tall the truth I love him as a thand, but"—site looked guiltly

The line of a marr's neck can change your life. The way he days in his pockets for change can make he hast signassive and hailed grow cold. How he bouches your elow of the button the licrotic lossed on the caff of his shell are demans held lossed without ever himowing it. They own us immediately. He was a theroughly

us immediately. He was a horoughly composing main I wanted to rise to access on this presence in my life and become contenting more than 1'd presults must be supply the presence in the definition of the main tool. Until the washington that he wanted to share things hed held in reserve all his sits. Because he knew socrars or later his have to go away (where he means said, have to go away (where he means said, here to be present and the presen

the west hippy or that the warefact to share things had their in reserve all his life.

Because he knew accorar or later had all have to go away (whether he mider said, and il stopped saking), the seemed to prohave thrown all coulter to be word, that before him, foll make thoo an arrelation mount of the beautiful to the said of the said of

← He picked one
 off the shiny orange-brown
 pile and, putting the
 story thing in his mouth, bit

down on it. Something cracked loud, like he'd broken a tooth, but

a tooth, but he kept his angel's smile 🤊

ing, and hated dishes in the sink. My life to at furly was combotably narrow and or dered. Going haywine or off the deep end wasn't in my repetions, and nor mally people who did made me squart.

I real-local weak in love and haywrith to you look yil stught har to play packed like we'd bathod it ground on hour, we wen starting in the gallery direkting Coke. He for fillingers A hour, 'threated drop tell or may on writer I pot may hand over it quaddy and through a hour you will be in the tracked in the you will he didn't see! I have been of a free to learn to put what you would be a seen of the power has a seen of the country of the properties of the potential of the properties of the potential of the properties the properties of the properties the propertie

where it took me
That day I reaked I'd saonfee anything for him, and for a few hours I went accord feeling like some kind of hely person, a zealot love made flesh

person, a zoalot love made flesh "Why does Michael let you stay?" He took a cigarette from my pack. He'd begun smoking a week before and loved it. Almost as much as he liked to

loved it Almost as much as he liked to dink, he said. The perfect instrusin "Don't target he was the one who left Lerns. Not vice versa. When he came back he was posty much on ins knees to her it is he to be there want a lot he to be there want a lot he could say stout me bang there. En a pocally after he found out who I was be you have any plann pits around? "Classion how Why in Godd is name of you set those things?" "Their is say; because planns and Lonal's tavorte tout Whon she was a like set it which have to go other for just a like set it will have the gother for just

us two Scott Jopan music, irreginary tes, and seel plane. She'd can the fruit then put file pit on my plate to cel. Makes perfect sense."

I san my hand through his red helr, lowing the way my fingers got cought in

I ran my hand through his red hair, lowing the way my fingers got cought in all the thick curls. That's diaguilling. It's just like slaveny! Why am I getting to this port where I don't like my beet feend so much anymose? "If you like me, you should like her,

Julet—the made me. "That part I file.

I kneed his fingers. "That part I file.

Would you consider moving in with me?"
He kessed my hand. "I would love to
consider first, but I have to bell you I don't
think I'll be around very much longer. But
if you'd like, I'll stay with you until I, uh,

I you'd like, it is say with you until it, unhave to go ' I sat up. "What are you talking about?" He put his hand dose to my face "Look hard and you'll see." It took a moment but then there it

Licok hard and you'll sale:

E look a moment but then there it was from certain angles! was able to sain right though the hand. It had become vagually transparent.

"Lennis habyo yagan: It's fee out store—when she'll down also madd ma

and calls." He shrugged. "When she's happy again, I mot needed, so she sends are away. Not consciously, but look, we all snow I'm her fills Frankendish months: She can do what she wants with me Even deam up that I file to be thicking plum pits. "This is mercod."

Signing he sat up and started pulling on his shet. "It's wrong, but it's life sweet get Not much we can do about it, you know."

"Yes, we can 'We can do something." His back was to me! I remember The first time I di ever soon I tim. His back was to me they, too. The long sed hair folling over his collar. When I dicht? say anything more, he uned and bolised at me over this otherwise semitro.

"What do you mean?"
"Just what I said, Fiddy When she's said the needs you. We have to dockdo what would make her said a long time Maybe something to do with Michael or the children."

His fingers had stopped moving over the buttons. Thin, artistic fingers. Reckles. DO

MIERVIEW

most certainly wrong. Most working staproblem at all it's alarming how little we merly at Cornell University Medical Colleas testified before Concress that he hallower! tweety five namen of accombin papers may be based in part on data

that's been intentorpoly fusional That's a ply behavior that most apendeds concorners they dibe ashamed to admit to in search anyway that might be miscon-

suppose is outland out traud and how back the fronters of knowledge, you're guaranteed to make mistakes. In sqence-unitie say accounting-we have responsibility to deal with those errors. whether its our own a colleague's or errors, but unless they're miror it's not

Crest You recently returned from an envestigation of the so called 'impossible Stewart The researchers were measur no the way white blood cells react to an tem. The artibody, are light farth-immunonichulin F1, causes white blood cells pers when people have an alleroy attack. When you ack! a particular blue steen

red. You measure the strongth of the reduct if they're amply ignorant of correct The onsenrehoes in Pacis were measurweeker solutions of arti-ligE in water. They made a sense of one-to-len discloss about error Error is absolutely intrinsic to other runs twitts with water Now it you

as much of a dissolved substance as you died thousand that you've got any moletwenty dilutions, but Benveniste rehundred twenty diutors in a row and

Geser Dig they by the experiment using NSI WOOSE? Stewart Yes. They said plain water didn't give the effect Ownt: Benvereste's paper in Mature last

stammer coursed caste on unergo. Were have been?

Slewart It would have meent first of all that doctors could expect to treet pertain diseases with water instead of medicine permertal biological science would be called into question. The universal exoffered in one reaction and char to what to there not to what was there Benveriste's contacts they've had with other mole-

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- Samus Babb, Physical

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cules long after those other molecules and gone Benvenste's findings were absoutay estacrdnary especially because

Green I understand that homeopaths seemed to show that homeopathy has a specific basis. Homografity dates to enomously diluted that they actually don't contain any molecules other than water ortists don't take seriously.

Orest How did you get the opportunity Stewart. I was one of several scientists John Mactace, the entroy of Nature, science to rawew Benveniste's original manuscript in 1987. Benveniste let an rispeoton from yest his lab because Mediciox made the inspection a condition of Natwo's publishing the paper The team consisted of Maddon me, and James his outstanding work showing that varsous passanormal claims have no factual Betweriste's people were dong what they

sure they weren't doing something wrong

without realizing it like putting their

Owni. When old you fest notice anything Rewort We learned as soon as we got to the lab that the experiments weren't

because up until then it had been wither said or implied that the experiment never sometimes observe these moute," if would have been a great dealless pub-Stewart Well, one astonishing thing we found out was that the experiments

ular spentist a Dr. Essabeth Davones was doing them. Her salary, we also ones. Now to put the kindest interpretatruch" that another lacks. But even so not away the science is less corrynoma. a problem. When you have trouble repeating an experiment, you've got to fix that before you publish the result not of

Researchers had to egitate the series of onds as I recall for the experiment to

work. That sort of thing is a tenet of homexperty, as it happens. Another member of Benveniste's team turned out to be a

Oreni. How did your own investigation Stowart. At first the three of us just stayed out of the way while Daveress carried out

perment was farly successful the secand and third spectagularly so in the would read the slides in a blind fashion, meaning she would look through the mtion they had been treated with. This ex-Ome: So in every case a strong reaction seemed to occur even using astronom-

cally diluted spintores? Stowart Yes Finally we did three more experiments. This time Deversas prepanel the distors while I wetched view in front of a video cornera, and Davense left the room. The video carriers made an old. In that way we couldn't be accused leter of medicines or deliberately introrisport erves. We then relabeled all of the test tubes with a random code. The level to the code was speled in an envelope and taped to the ceiling of the lab in full wow of everyone At the last minute I sug-

contest we add five controls—less tubes sisting on ground rules for the expen-

ment the atmosphere in the lab grew inobjections, even animosity from the staff with delight Davenes on the other hand, had mentered an esternely quarted atitude during our entre stay We had planted to pour everything into a new couldn't be sure of the effect of transfer-Orati: How could they object to their?

Stewart Well it was rather extraordinary Randi and I had begun making lists of all the little things that they said could interfere with the experiment. The source of distilled water the number of ordinary blood only the son of the champais ob-

server fatigue pipetting more than twice-the lat went on and on Earlier Benveniste had drawn me aside and told so, about some misfrematical theory than a sense of one-to-nine dilutions---I don't to a reaction, while one-to-ten dilutions would it was sist inconcevable. The also must on tightening up the way pell



Stowart Yes, we arranged for two re-These people had never attempted to seem to understand the necessity of doing so! Whenever you're measuring s relatively symple. But in counting cells you have a number of decresons to make Do you count cells with blush red granutes or faded pink granutes? People sometimes count the same cells twice. an observer court or measure someprone they are to making mistakes. Other So no one knew how successful unsealed at the end of the day? Slowert That's right And as the time the observations the tension present mounty confident that the results were

was pretty certain the experiments would Betveriste is an emptional man he was saying frings like. "Someday by handy to offer him a job. He was apparently senous, but I was flabbercosted. Even the world's top scientists don't no around offenny jobe to John Maddox who as editor of Nature already has a rather distinguished job it bund Benvenisters expriors a little earle Oreni: Were the experiments a failure? Street Well when we were about most or len test tubes into decoding the first experiment. Berweniste said. 'That bloods not working. Try another." His commert seemed to be a metaphor for what they had been doing all along it was results in the conference room, one of through the cloor and said, "Dr. Berweniste. The TV cameras are here." And he will be in discussion all day. There was

do about this you see Homespettis France than it is here. In Paris you see homeopatry remedies advertised all over

their experiments. Randi made the point drary proof, explaining that if a man clams to have a goet in his backward. you might weety this by calling up a tenge to check. But if the man claims to you'd want a higher standard of proof Crest Did Benveriste arque with you? Stream Yes famous almost apprix Laptusty thought Berwenste had taken advariage of us. Weld wasted a lot of effort. I had a duty to advocate my belof as tocceluly as possible it was never a screening match, but I wouldn't call it is casual conversation. The whole situation the lab were crying. On our way out we notiged one of the staff outling away bot-

Oww. Did Davensa cheet or not? of proper scientific practice that we saw



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there, observer bias was cortainly a key of you, you're more likely to reach the reber duplicate counts were too goodowed. When we pointed this out to Benveniste, he said. "But you don't nique is "He just didn't understand Once: What was your fruit investigation of Stewart: The John Darsee case although it wasn't actually Danses whom venety and Harvard Medical School His scarcher. He had published an unusually vound in 1981 he was being offered an some pepale in his lab naticed that he

had laborated a once of pyriteron. When As Harvard alumni Feder and I toits own investigation of the matter. We iminvestigation, which concluded that Darpossibly have supported that conduson When the MH enzywaysteed the matter some time later if discovered is huse amount of fraud. Darsee had fabricollect class on an absolutely blassed scale throughout his caneer Own When did you investoate? Stowart We decided a small be tritr-

entists who had coauthored papers with Emory had written and then Dersee's per eighty-eight abstracts We were setonshed to see that Dur-

ore people outsisted in The New Enghuman pedigree (genealogy) showing paper described. It later turned out the four children, including an eight year old couranter. We trought the journal's refer-

Instead it was noblished dott them in included precess of evidence in his parcer Figure 1 of the lead article in what is: widely considered to be the leading fournal of medicine. When I phopped up Dr Arrold Relmen the purrel's eater to call his attention to this, he said instantic "That's a miscont" Well obviously it mentioned twos elsewhere in the articlewhen you started calling them up? Stewart: Those who were completely co onerative were a minority. Some felt or ute seting to tabulate the practices of the sci-Hervard professor refused to talk to us at the forty-seven coauthors orgaging in smentfic practices that would not gen-

evally be considered accordable. Some either lenew or, in our sudament, should have known wiree false. An example would be hiding the fact that the cores look much stronger than it actually was Many of the errors were minor, probe were so fundamental as to underning the truthfulness of the paper as a whole of an intent to deceive I believe consuideotetry access despines have an expenditify a onsire the accuracy and sufficience of the entire paper. Once Witel became of your report on Datasité coauthers? Stewart We sent a dreft of in 1969 to Migdow, who was quite massetted in publishings. The dath also want for the coauthors. Shortly offer that Mare, the NHL and Hed and I begin to neceive athers from lawyers clearly entrying trait well also quarter to be in Nephron prior well also quarter to be in Nephron prior well also quarter to be in Ne-

of the countries. Shortly after that Mean the New Year. We want to began the countries where the 10 larger is excess within them bayers clearly an exploying rule wide of less outfort bish rich damp published our report. We sear it year and a failt moley of a those programmed in the larger in the properties of a fail moley the properties of the properties of the properties. All but on such "One or countries the larger is not only to shoot these or the properties of the properties. All but on such "One or countries the larger is not the more than the properties from the properties of the properties of

own consider in Last, a portion at Mill, was actively invested top subsequently but their mode has unless all speciations but their mode has unless all speciations of a consideration investigate pourset or MIT. We approach although life invested do that again and uses the subsequent was that we approach after though life in which do have a single consistence of the subsequent was shown to approach with surposition in sing fearum. Then were later softward to five was not in was self unsoderpholic to be feared to a single interesting the subsequent and the problems of the subsequently and the subsequently and the subsequently all the subsequently and the subsequently and the subsequently and the subsequently all the subsequently and the subsequently all the subsequently and the subsequently all the

It's arrange have the kingar you wait in the income feeding vol become Alleste but, lested in 1987 No out become a live was suid for did the earn booken array shares. We get increased of listers from the contribution of the community many large years pile produced on the community many large years pile produced because were than well observable. Once it have you any common suggestable for easing report from which a Sewart in the dual all contribution in make a sewart service of the service of the

class Mary of Develop conductation had be subsidiary of Develop conductation and subsidiary of Development of D

Published experiments should be re-

peatable. A published report can never disclose everything you did in the lab. But you here an obligation to classifish the most important parts. A sciantist trying to repeat another scientials work is essentially like sciences reading a recipe out of a coolibook.

or a continous.

Ome flut immuse chele se reterious le creation de la continous continues de la continue del continue del la continue del la continue del la continue de la continue del la continue de l

cells includes accessed, ye of our processed in control of cells of the cells of th



beautibly dull. What's important is not how. Other: What research have you worked and whether it's useful Greek One significant discovery of yours has to do with something called wictive

town What is it? Stewart Wiktore toxon is a chemical pe-

isse of tobacco parts. The disease used to spread like widtire, hence the name. although it was brought under control long any. The late D. W. Wholey a holiant onpormental scientist [despite being totally lished a paper describing its molecular retructure. But it later proved to be wrong

I cladded to use modern methods to determine the molecule's structure. I thought I could do it using old chemicals. Rockefolier University, where I had been a graduate student after he clied. His and notebooks looking for his results. The experience turned out to be lascinating. ence being corrected through the sharno of data. Wooley was sturing his data with me offer his rleath by means of his. carefully kept leb records and chemicais. I was actually able to pick up the

responsible where he left off. After I went to the NH. I solved the toxin's molecular

OMM

on more recently? I did that's proved useful to others is the synthesis of Lucter vellow a fluorespent

into nerve cells that are maybe one title the width of a human hair, and all of the nerve endings become not only visible but fluorespent. The dive never existed betom-I had to river! #. I must have

find one with the properties I wanted it was an obsessive mad frunt for a miracle reacect. When I finally succeeded and began to get these mages under the myprospope that no one had ever seen before, beautiful images of nerve cells glowing against a black background, if was ingredibly excerna Grave What do you thok about NIH deputy director J Edward Raff's nominant about you wasting your talent?

ing scientific practices isn't important. If so, I disagree. Scientific misconduct afabsolite public's perception of whether or not scientists care about this sort of thing. In down an investmention, I'm both using

my skills as a scientist and following my own interests: the seventioen-year-old with the eight year-old daughter in The New England

Journal of Medicine. We had been wad ing through all these very complex med we were going to find, if anything All of a audden to make this unexpected disof discovery that I think all scientists feel when they sudderny understand something they didn't before

you and Feder of hearts "arrogated a mission that nobody has given [you and have set (yourselves) up as more or

less grand incurators." Street That's maccusate We've used ordinary scientific methods in our investligators of scientific papers. We've had no unusual powers to get this material It is true that nobody specifically gave us this mesion, but nobody told me to syn-

three Lucitic volce effec I set de acted I was going to do it. As I recal Remarks comment refers to our chal-Baltimore's group published in Cell' in 1996. Scientists must teel five to chal-

gesting it's wrong Orror The Bervenste after wasn't the trut time you contributed a published orbuttal of someone's paper in Natura Stewart Right There was the scoto phobin paper in 1972. Sociophobin was the name given to a chemical that was said to transfer learned information be-

tween rate. You'd allow a ret to enter a punish it with an electric shock. After the ecly extracted from its brain this chemipai, apotophobn-scoto means "dark" phobos means "teer "When you medical the chemical into other rats these rats supposedly accurred an instant fear of pretration of learning caused by a chemical, not experience. A scientist in Taxas plarmed to have dispovered it. Other

teams confirmed the phenomeron II it had been real. It would have protoundly Mature sent me the acotophobin manuscript for review I wasn't imthat Mature ask the authors to put their best evidence together, then ask an expert to serve a retartal. Nature chose me to write the rebuttal. The sciencists were not willing to publish all their data, which

Orner What was the gist of your rebutla? Slowert They had used their mass spectrameter to analyze the phemical's pomposition [The mass spectrometer displays each chemical's composition as a dicin't present the whole spectrum. I got a spectrum of a completely unwisted showed that it fit their analysis just as well What hey were extracting from the rate



breins could have been any number of teen-hundred-word reply to my analysis, in which, as I recal, they complamed of vanced some pretty poor scientific arcurrents. No one believes in the cost-Omn. You said several other labs had

confirmed the acotophobin phenome-Slowart Observer bee-weekly funking it happens all the time Just after the physical named Blonclot decovered a phenomenon he called N-rays. This was off by a variety of sources: heated metal, the sun even muscles. Bland at believed num prem to focus the radiation. A numobservations. Nature got involved log, agreeing to publish a report by American looking. Wood slipped the alumnum posm into his pocket. The effect contin-

the basis of Blondlof's theory, which was instantly discondited in most of the spiweblin community. But so on other horspens. Blond or and some colleagues rethey thought they'd observed. So the next time you hear someone aroung that independent repetition of experiments will show up bad results quickly, you can remind them of N-rays Open Amold Relman and others used

before it gets into journals. So why are Stewart: Peer neview, to Dr Relmon, means that bed stuff doesn't get into his journal, that's all. That's clearly wrong, The New England Journal The only fund which magazine an article gets pubinherin There's virtually no article so bed If a not publishable somewhere Peer republished it just assure a rating. Journate heave a pecking order. If your peop doesn't get accepted by a first-rate journal like The New England Journal you can always drop down to a third- or fourthat replication. Fraud is usually discov-

else about it as with Dansee Somebody rate Bearinmend, though that the results Oray: There have been suggestions in Congress that scientific traud be treated , Showert I don't some First scientific 14 CMM

misrepresent your results in a grant apto get money and that's flegal Second. the problem of fraud is so complicated

than good. I would profer to see scien-Orers: How does the NIH now handle allegations of misconduct that it receives? Street: Urtil recently it had an often part-time secretary, responsible for reverying allegators or approximately law foe received allegations about only a finy

Before the congressional hearings last Apri. Necl and I extrated we were recewing about a hundred allogations a year. The rate has probably gone up since then Typically, managethers who believe

6Frauri is almost never detected by Deer review or by attempts at replication It's usually

discovered only when an insider tells someone else: Someone rats.9

can't led them they won't suffer profes-Even if people have documented their allegators in detail if they report their al-

haven't been very sympathetic to those Jaroma Jacobstein, for example, accused a polleague at Cornel of improper conduct. The collection was expressed in a meeting that lasted only two hours. and resulted in a single handwritten sko of paper. The dispution to Japobeter's to spend theteen thousand dollars of his own money on legal fees misted to defending his charges. The NH finally concluded that he was right in almost all of his allocations. The people who make their charges stick are usually like Jacobstein extraordinarily tenacious Whistin-blowns are often agouned of being melcoreants, but ther's not been my

who believe strongly in making the sys-

tem work. If anything, they re a bit naive

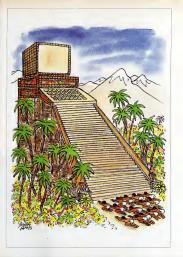
you refused to mow your lawn and they your neighbors are furious. around the house but have let the offer xix arrest become a meadow. The hyuse is in a neighborhood of large homes with large lawns. The first year we owned the house, we bought a fractor and moved

question why we were mowing the whole seven scres, mentaning an ecological monoculture. We thought it would be better set to let it go wild giving back and merrmels a habital they sorely need out that the reason we have rabbits and our neighbors con't is that rabbits need four or five hummnotird pars, havks, bluebros, a priested woodpecker a for they have evidence of fraud or miscon-Inca while and all sorts of mice wood The county ofted our meadow as a health hazard, and it was going to take us to court to make us mow if There is a real

guesson about whether that would have we were planning to bring in nine or ten national experts on our side-it was coing Maybe we just won't go forward with this Over Dight Spence run a half-page ortale on your lawn? Stewart. The way Science handled that was a disgrape, especially because they/we given my work on motions of ac-

ence little coverage. Then a half page to my lawn. Of all the articles about this, ful and most gossipy Even the article People cid on our lawn battle was more thoughtful. The sportific establishment is observably unbodies with some of the things Ned and I are doing. I'm not the only person to see the Source aracle as an attempt to dispredit me personally Owny. The editors of the two top Amerran spentitic journals. Spanes and The New England Journal, criticize your investoative work. Does this bother vou? Stewart. The main fring that bothers ma is that I don't understand their onficisms-Relman's comment that with

'needless's infaming the issues in the Baltimore case for instance. Whise asked people to ontoze our work on the base of its factual accuracy or appropriateness to specific issues. When people make general crificierts like that, I don't even know what they re trying to say in a way, those editors are agreeing with us. because now they re at least discussing the question of mesonduct publicly. We degree of agrirrory perhaps, but a debase-and that's starting to happen You're powered out a suppress of ours. We aroused the alternor of two very promi-nent acitors DO perception at all. They lend to be people



SOLACE

without committing themselves. Dr. Au sched made a fabilitie golden and and, "Will, then, Mr --glatteng at the card on his desk--"Ramirez, what can I

most, almost he got up and fled. But he madeout himself. And as he pushed inspretual fear down, guit and soil hate and anger rose, black and briefing and

said calmiy

Dr. Au looked first surprised, then of potential entrapment—then after a pouse airrord repretful. I must say this is somewhat out of our line. Wore usually asked to supply flicit fantacies, clander tine perversions, oppositionally a spot of looked at Kleisterman with currouty

although his hends still trembled. Yes, I mean it I used to be in the business I used to be an operator myself, so I can assure you that I understand the impliterman leased forward his gount face instroy me. I want you to make me suffer You're an operator, an adept, you know do that I want you to make me pay

Kleistermen slumped back in his chart it. I know you've done it. I know you are discreet. And when you re done with me. can get rid of my body discreetly, and no one will ever know what happened to me I will be as if I had never existed. His

born Would to God I had not been Dr. Au made a reprogramabil noise tapped his fingers together thoughtfully His face was fired as though in his life he girtgred with interest. After a polite pause

you sure you won't reconsider? Needeman made an introduct dolet in my head at any time but that means nothing It's not enough not nearly enough There must be retribution. There must be restitution. I must be made to

ow for what I have done. Only this way can I find solace " "Pwn no...." Dr. Au said, doubtfully Kepterman held up his hand. Moving 96 CMN

ence anything. Pain of course Arts with slow deliberation, he reached into an rner podest produced a coded credit are considerable. He had the credit sipup for display then proflered it to Dr. Au-

Dr. Au sighed He looked left, he looked soft, he looked down, he looked up. Hisment. But he took the credit strip. Dr. Au ushered Kesterman politely into

tence while Klasterman removed his clothing. At a touch, a large metal eggsose from the floor, opened like a fuerbanch or shelf Dr Au pessured brusqueby Kleisterman by down on the bench. winding at the louch of cold metal on his neked skin. Dr Au leaned glose over him

bristly efficient, as though to get it all over with public. He taped soft cloth pads first

éHis skin bagan to prickle over every inch

feethery probes contacted his nerve endings. and as the pricking began

to fade, with it went all other concetion

note: There was a feeting of motion, and sliding back into the machine which would be retracting around it the petals. claring tight to form a featuroless steel

sense of enclosure was aware of the feel of the metal under his back, could even str a little, move his fingers impatently But then his skin began to prickle over every not of his body as feethery probes made contact with his nerve andions, and as the proking began to tade with it went all other sersusion. He could no longer wanted to move. He didn't have a body anymore. There was nothing. Not even darkness, not over stence. Nothing Nonessience Klesterman fogled in the yord, wating for the torment to beam

names-smulator, dream mechine iron maden, mader, shadow box. It fed. menage chearthough the bream With 6 the operator could make the subject expen-

amount of pain. With a simulator you could out doing them any actual physical in that, though, since to them the exposonce would be indisfriguishable from as hopelessly grude lacking in all fineese Not ampter Plan was only one loss that could be played. There were many others. The subsect had no secrets, and with argores to the authoritis deeped nance much more effective than pern

skilled operator, the artisen, the cloves craftyman could develop curring age Kleisterman had been such an oriestaskill He had clandestinely "processed flowers of subsects for his multinasuddenly one day for no particular resson, he began to sicken. After Donaldson Ramaswarry, and Kole, three especisfly difficult and unpleasant jobs he had his life, began to have difficulty steening-and when he did sleep, began to have uncuet dreams. Then Malissa had

rate malice and had been sent to him for his ministrations. By rights he should have and had even had a bnet after with her crice, were before. But he had had his the job. And somewhere deep in her mng, he had found himself, an emobled never been, and he realized that while for charged-that in fact, she had loved him

deeply and still did This discovery brought out the very ment, the greated scenario after scenario for her. If eafter if e, each scenario working some variation on the theme of her love for him, and each time, 'his' treatworse, his betrayal of her uplier and more humbsting, the pen and sharre and anturned the universe against her in groteacue ways, too so that in one ife she died in a car wreck on the way to her own wedding, and in another life she died slowly and messily of cancer and in another she was hideously dishound in a

his and in another she had a stroke and Incored on for years as a semaware parable in a solelid russing home and so on Each life began to color the next not with specific mamories of other existwhom but with a dark emotoral religious We was drab and bitter and harsh, with nothing to look forward to but defeat and misery and part, that the dice were stacked hopelessly against you-as, in fact they were Then time of subtlety. aesthesic precepts, he began to hit het. in the sourceos--et fest just slapping her around in drunken rages, then beging prist Then, more scenary, he nicked uncur, and she ded in a way that was no she'd died before but which out her all last beyond his reach. He had haven dehate and bifferness and one' she loved lover dream as though he had been himself gione in his soundproofed outs cle with the simulator and Melsoni's cool

rather than "processing" him, and from then on he had been on the run. He had the multivetorial. Higher from himself had

a second for his vision to adjust and for and the time Klestermen left the partiti yank of tape against skin as Dr. Au respect up Dr Au was saving something but it was a blare of rouse harsh and hurtful to the ears. He pawed at Klesterman again and Klasterman shock firm off. Kleisterto the world again, and his mind cleared

of here right away." Klaistenman stared at him. But you agreed—" he said thickly mirgz." Dr. Au said apprehensively. "Histo. Wor your clothes, get dressed. You have from either No trouble Leave now Take

Slowly Kinstermen divessed maraculating the clothes with stift, clumsy fingers ness made the amulator Dust motes somewhere a flat taraway sound and a smallest cistal with expulsite clerity Au, walked through the outer office and out not the dusty hallway beyond. The foor was not fled, crime between the ties. up the stainwell. This is real, Klasstaman

There was a security probe: I barely really happening, this is the real world with just deriving me solvce. Letting me no on. They've got that subtle Klestermen went down the narrow rows. He drapped his fat against the you, Mr. Raming: I want nothing to do with



DR. DATABASE

BOOKS

By A J.S. Ray

ther your doctor runs a battery of letter and rendes the chapgining you all the batter? Is the expaning all your options—or only those he believes in 70 you shear enrarght to make a docision about you teather more it is you credit owner in low one workfung about your literase and your allowance you could control medical apposable to you could control medical apposable to the your could control of the your could control the second to the your second control of the your could contact the your could necessary for you could necessary for your properties.

and pore over reems of published in reports. Or you could need the set of the World Research Foundation (WRF) in Sherman Dales, California. The foundation is reelly the library of the foundation reserves it says WRF potentials of receivers says WRF potentials. Says Res. With secoles to 400 databases of

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be found in medical or university libraries.

WRF branches with their own on rate

Sedonia, Aruma, and Sulfigari, Miast Sedonia, Aruma, and Sulfigari, Miast Semany, with another scheduled to open soon in Chicago. The Presset hope to open content in 29 major cities. When they me in 11863. Sove Plass and his future wife. Lavenes, shared a mutaal interest on creating it pakes where people could go to learn about their options to the phrameocratical and observed approach to findione. They pocked that lived is well as They pocked that lived is and produced. office space, and opened WFF in 1984. Since that the The Reason State made agif coerasos trips fouring various medical and opening notatives, colleges and laborationes and establating the WFF network. On a recent pumpy to West Germany for exemple, they visited a clinic where obstains are using a 170-year old therapy that induces there to "burn up" a potentia.

carnor colls. In whater West Derman clinic, the Bassas tound researchers studying the effects of carcine predictinessy, a process that emiches blood Will acome in righting the ALES wis. "The German newspapers have reported the results the therapy," Shave Place sales. "But the American public hash! Deen informed about come inhebilitherapy because it.

about ozone pyeloliterapy because it dosen't involve a drug.

White there is no charge for using the storary yourself the WRF sight will constant personalized miseasch for a nominal lice of \$30. The basic computer reason provides without a cliffs of \$3. subject four can of ocurres obtains selectance for all the wavelable standards or even the complete texts. The tipe, however sees according to your sequent Wiff sewaches can not districting between circuit studies and amendated evidence—warries you request one or the other time can report that are ortical of a specific treatment. The foundation travelent does not other principalities of or pulgment or measured inferigers. We created to measured inferigers.

toundation to accumulate and desertnate information in an unblassed manner. Stave Ross says The American Medical Association (AMA) encourages presents to learn

as much as positife about their diseases. But the information in customs should not be considered a substitute for the dispress and natious on a substitute for a locareed physician. The AMA takes no office spociation on include medicine self-hashing, or other alternative theropies But, it asserts, a patient who follows.

issu. It assents a patient who tollows materialization metical advisor sprains a physiciant's advisor to award conflict and possible inspectice sits moreover, instruments with a security of searing selence who are undergray northadional threapies. The purpose of the WHF Pase points sut, is not to artialgonize or undergray the AMY. But we can no larger evertock.

techniques that seem to have account in chair countries in sugarvation countries in sugar-value of the countries of the seam of the countries of the countrie

them with their own studies 'DO



sarch service avertus to



Imagine that you are facing a planty free form in your heart. Had the potate in the potate in the potate in the facility of the potate in the learning free facility of a theology of the facility of the faci

hem one all dolland light
hem one all dolland light
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seed to present dolland light in the seed of the seed of

can't d'ha time her eyon responsed as tough they were percewng her responsed, not he autility. Barbary coter Driver remarchers here i dec charted connections beleese what people features or many ear of the follogical reachiermer involved in schooling performing these accelease. As far task as into hithrois, Ermand Jackboon boverhild and you migration or leading by sourch drop is personal facility. In migration or leading the personal particular deals that mission would be a source of the source of the mission mission would be desirable activity. Other source data have found that in regioning on object revening across the sky proclaims come outserford legit movements than the sky proclaims come outserford legit movements than the

More recently, a number of researchers have begun ex-helped bolster their immunity



hoolin. One of the find dosper to use mergery we part of a this appunition program of a this appunition program distinct encoding of the fine distinct encoding of the fine distinct encoding of the fine personal programme, the has released territorial or the fine personal programme, the has released territorial or the personal complete certain con of the debrased. His paded in right if vaculate the addition of the debrased of the majority, the forces of good that allock and thereph over the debrased of temperature or the debrased of temperature.

arriving how the irrapes we

With imagery exercises
Because everythe has a
different ability to produce
wild images, some people

well benefit max son positive-integriny Historicases than others. Nevertheless, heliprochlorises have bond them useful in healing a victa virity of problems and disorders including glossesson insecritis, sexual dysfunction, instrine and blood lumers. Desirable the success of imaging in healing, flowered, this or known about why or how imagined postures affect the inmort spittin Jaisan Adhitishing a high periodicipal, all healing for a processing of these healing flowers of the concretation may be the the second Context supposes that concerning the life and the context of the contraction may be the the Reference and an immunity.

and dississal the explains, the emotionally tragonod? The image we produce may easily change our emotors, creating either a positive or a negative either on earlier of the end of the end of the end of the end of the cold (Gaser and he late physician Has Selye documented the zwennig of remunity in people sulfaring form duprio an native share. The latter 1 calls which fight verticons, are less active during depression and provided in entirely engaging in "congrig imagery", during streads of orres free

PHOTOGRAPHS BY ELLEN SCHUSTER

PICTURES OF HEALTH

If mental imaging can help. viduals keep their minute. ness. The eacht exercises have yet to conduct conriques on healthy people is an experiment. Keep track of

bave ever a tempting easis secon and can practice f sion of each maging session, slowly count to five and then bring yourself back to your supportions. Take a

in the beginning do not by

1 STRESSBUSTER

week and then expand your reportains with more. If creased risk for heart disalso be at the root of many ders, and skin problems emotional problem should agned to slow heart site and consult a physician or ther maders will pulckly relax and begin to benefit from these activities a low-may had that that many of their minor the images persistently stress-related health probprofessional audance on the measure the success of the

or after work. With practice. laxed state will become as Technique Loosen any talt dating voulte wearand hold it for a while Now

labout ten begra a minute

breath and hold tagen. The time when you let go, make moments and concentrate

Next, when you mhale tell word relaxed to yourself, let and deeper into the chier. Dunce the day you spend

body be pulled down and down Feel your back slowing down. There is no no huny There is nothing you have to do Ter-

citize of releasance and every 1 time you broadle out manine that you are breathing teeling of peace washes silent The silence tools warm and comfortable and hasing deeply hasing You feel at case and at

vourself and all that

more peestmistic group By focusing on the positive we may be able to boister our that's needed to

Purpose Like stress feel-When we focus on unpleas-ATT ENTITY IT OUT DEED NOT The cower of positive think no a more than a cliche, researchers are discovering that having hope can prohealthy in a series of studes. Stiomo Breznez, descknew that the end of a land therefore had hope) had for

afterwaking and then again at night, before going to full to record your "new" expenences of happy events in a saunal adding a lew you'll quickly run out of uplifting memorine, but grace Technique Find yourself a guest place, and make yourbreath hold it for len sec-

down Let outside noises

and the verbal chatter in your

mage in the morning, just A number of happy events them for a long time Some made you ted happy, royful ding or the birth of you first child or the record mattered a great deal to you Nindress, compession, and ton when you in turn. cloted sun

these events to mind-refive

synelis, teatures, Take you until 6 revives the original your beeng. Enery your feetings thoroughly before you

you to relax and get focused not below undertaking a signed to relax muscles and increase blood flow

your bridy consists of tritogether If you were to look microscope, you would de-



PICTURES OF HEALTH



is a tightly packed mass Now let some space creep back in between the cells Create even more these trilions of palis now have room to breatly

Imagine that all of these only throughout your borly are beginning to move in a life going on from head to toe Each and every pel in this dance - dancing to the

After you have fully repretoin the wonderful feelings it. has left in you. Then perfly bring yourself back to your

cavities and ask you to OCER VOLUE EVER beginning to undlog and that 4. ALMENT ANTIDOTE Avocas Minor infectors opening up Ordyou have a or made less severe by extcan might give you two proplaying techniques armier to tures one depicting a sick a healthy keleny. Your task shrunk tumors through imimaging can create the same. physiological changes in the

to magine that your sick list In trying to imagine your self booking you peeck? year World Conference on Imagthe afting body part. In-Fixure reported that people

who used this imagery technique to heal wounds regovernd more quickly their shoos the same technique Profession Merry doctors

physical disorders, we must function of the body part that

working properly For ex-

feation, the doctor might

smus pessegeways and

focus on the area you beleve in country vou to feel sick, and to concentrate on magning it to be well isysted or often Practice this until are healing

yourself building new

healthy cells or sending cleaning blood to an un-

healthy organ or area if you

help heal if by picturing the

den the body just as depression can People who lend to somy expessions are headaches. The rest time worrying about something. Technique Relax and imagine fast you are aiting in a great meadow on a per

you it is brighter than one hundred suns You feel it beed Now a perigodes your body You feel it warming the your chest it rackates into right down to your lingertips. This light continues to flow through your abdomen loes. You feel that you are light is desiring you All negative emotions and the light Imagine that the mouse elements are leaving smoke, which is quickly blown away by a certile

tree and cyful sons anymais sleep is to aladded stress on their imose has helped some insomnacs to overcome the awake it usually enables them to tall asieed in only ten

period by severe arresty or Rechause Try to most when you were extremely aleeny, when your body ached for sleep but you had to hight it off due to external

awake in order to sludy for pervise a machine during

situations, your need for some people. The idea is to onerted demand and it was reward and/or punish your-Asyquimsgreyourself to be in one of those situations. this image, you will begin to slookel cigarettes or sink feel drowsy. But at this point. food is tempfing you You disregard the rational devoursell Let someone else more / amifree There are so

smoking and expessive caland or inteles of alcohol have grave health grosse, how to breek the habit. This listened you give in to the

sieeo You will slowly fed ing the temptation. Then reward yourself by magning yourself in a deanable sau alion-a favorte outil file well again, or you gan filt along a beach without gasping for breath the voice that said Stop in-

templation Then magane the see your lungs black. Prac-

sires and actions. If our bearts are out of sino with corne from nowhere. Thus shing you to do what you really need and want to do eyes and relax. Imagine that green grees is dolled with following technique has Technique Imagine that

among majestic trees. Sunbeams dance in the cool clear water of a stream speck it is nacisting a bright light and is slowly moving down the mountain fresand ight, and you start walking sense if is a wise and compassonile bacc fall knows you completely-your past your present, your future. You face. It is your inner adviser to you or it may be a

PICTURES OF HEALTH

not take a human shape but | The Potential of Fantasy and ence Talk to this presence anything that is on your mind adviser may not be per

Sheldh is a possi president of the American Association for For Lutter information about the exercises presented guidals message being with this inner guide seiems to be over express agery Institute, Box 13453. Milwakee W 53213 or



make assessments to meet this made to finde, but hold

It is not advisable to follow ing them carefully it, after reamning these ideas, they not is minimal by putting

Marquette University in Milrently the editor of The Insurnational Reserv of Mantal

DID CHANG

A PORTRAIT OF HEALING

broken place and held the the room, and she ordered the creature away When I' come as a cit. and I acsative freplace "You see."

paper obtforme to examine This was the first dosern?



and spent my rights whose remembered in more than a 1 tro, sweeting, and reports effects of chemotherapy—a to combat Hodgkin's dismest a cancer of the lymphate system that attacks the hady's infection-lighting white blood pells. Weak cessant riching and night sweets. I was fearly of the

cepted it as such My battle with Hodolonia wildpind a prisumatic cough

a physical exam could find passed I was suffering from ferred me to a psychiafrist.

I went to see an eer nose a trig problem, adding that I sent me to got a thyroid scan and a chest X ray.

I'd been working at Oosse exactly three wasks when the surgeon called with the baptay staule. Haladdine to leave work immediately and check into the hoppital.

"I'll talk to you about it at the hospital" he said. "fall me now." I said. "The liab shows lymphoma, he said.

That right an elem trap to hold in part and that on hold in our an In Middle with enthancias if funded as he day for a vent that would talke the flow Terrified and in texes. I leaked their he stop. Two back there trap is south there trap is south that they lead if you hack't moved, he enterped he becomed out with his artisepact may of breadings and syrings I curried into a ficulty position and significant in the position of the stop to the significant in the stop of the significant in the significant i

opy on my hock the ned monning I was up to the small of there is Familiar Load. The surgeon feet me has the surgeon feet me makingsit. The II had upon the said has well had so he said to be cause the saw Read-barriage pole in the macro-poops of if was Hadden's pole of the said had been supplied in the hadden's had been supplied to the said of the said



and See Install service you don't been yourself. I see I see

nom one of the bearing us onclosing sets executing in lymphoria. He recommended that I begin chamchiespy immediately. Youre a sometie grif he said "I think you want to live Your chances of recovery are good with this cleanes.

but if the not recent fact, it can let you. Then he laid me about the man who made was from the man he made was from the man he made was from the separate but worth it as open the you have long thick har and its gorn to be gone in the gone in the gone of the control of the man of the man of the man of the man of the separate he made to the man of the

the lump in my trace at their and th

sterify—although the worst possible risks—were not petry concerns. And nauzes which I directed more than pair, was appured. When a first consultation for the direction was made.

my deutson voluments and make high high properties of the documents of the next six months: I checked on the hoppasion stemeties findly different and working of the copies of the copies of the copies of the documents of the copies of the copies of the documents of the copies of the copies

Allocatification of the control to t

foreign Chemotherapy, I psycholog et who could use knew, was not a paintain hyprosis to help me light of the nausea Glazer called his the nausea Glazer called his the nausea.

PICTURES OF HEALTH

tweety modified desense. lated hypnosis he explaned he would counter-

supposition that we develop gether. We began with a sitgetting into a calo for the trip our way up to the most traumatic... The actual administration of the drugs. He eves and slowly let the lids fell closed I was to do this deaply, and repeal it. Then I Once I was relaxed Giszer told me to visualiza slowly on a mountain. The match that of a repostave m

effort at all to hold it above. from the relationg effects of the exercise, Glezer said I DMNI

reque as soon as I got into a cab bound for the hospital repost tion arrival and do it again in my hospital bed as pital the next weekend. I nimed a tape of Gazer's trate on it but the constant as my mind began to wander to the bucquase waters would come in with a check-

trying to out myself into a resums i accorded a as a liveb of styro with monstrous

sort of expressm. A's neces sory to suffer in the way I thought in order to be olassed I temporanly instead on my hair. I visual

good each strand as a separate entity and imagined roots that bonded a to my of clutching fingers holding themplaying typ-of-war with the chuzs. In my largey the

an artist thend gave me sume coloned panels and suggested I try to sketch my

heads and bodies interthis finess the earth, blackered from a fee led by the decay within one it was a sticky mass of everything I stopped thriang about

stead, I magned the tumor pictured it full of black holes inhabited by cancer-causing warright I let them bettle. the exitic agents of my chemotherapy Wielding

vadors fercing and langing, vapolizing when they

Chandler wrote that when one was "sleeging the big ence between lying dead in tower on top of a high hill. oi and water were the serre

months later I've learned age the planet, plant new seeds. When I valuable my young buds DO

pain? Was I entrace?



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For a bit of space challer in English

ator Jake Gam, when he look a trip on Glacowry in April 1966

Gam. Wr. President I'm doing sail. creet (vernissed you but I'll be back on uesday I'm well aware of the vote on Niceraguen aid on Tuesday right, and i'll Dispowery have gone up again OC



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chace in such a moment of warmfr would example the new wire of Rashid one of the young men in the vilage Abu-Luchod and worthy of soom. Even his rebitives Now everyone approved. This was the

manly thing to do Author Lean Unix who reviewed considerable anthropological research to The Flar, believes that the same cold pass extends to the way Arab wileace

dwollers raise their kids Christen Una Could the deniel of warmth to behind hand with a love of inflicting pain, in six-

The youngstens of England in those century English reached adulthood, they

changed their mands about how children affection. And the scenes of brigality in

and women is considered a sin. And the ireo a life of cold isolation, has become a waking time bomb. An entre pencis mw. otabun DO

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psil or should work with one, in order to help the abduction deal with the memonos that may be neveralled. If the process of finding competent abduction professionals, seaths intrindial

help Come readers with their task. Ico Sometime in the future in fact, Sweeks and company loops to personally interview those who have lifted out the questomers. "Even assuring three people are taking their task," Sweaks says, "without taking the form one-on-one threes no

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Even if the statution accreances notiing mass than fariately the Cons quasitornate may help to prove that, too Cur rently, the Center for UFO Studies (CUFOS) in timos is studying abdutees, including some who filled out the colors in particularly process by balleys, discrete in the process of balleys, discrete in the group? For study will get the enheurs cancer fartiesy came popose can other be identified with a fact. Whoring on a aminer theme, Onco University psychrologist Seven, Jus, Lyun is larger the cypationness to some whether the LFD abdustion experiences in content in reclaim region. To do this study Lyuni satis has subjects that after they are commnighterous lights in the day they are other-

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"It looks like near mager" in "Grand Mirago, the hote is an eye-level rectange, 12 by 15 mohies linven for Steve Welck explains the effect. "If you of inside the cobinet with your head back and look straight, up into like memors, the people in the soom would sais your book in the window, and you'd said them more streen looking if you. Point you'f may street to and the spectra street in order of the street in the street of the street in the street

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maker as shown it sure laseon fisheshythere—or appears in specasiolity. How does it work? An allocatic eye beam connect the sides of the frame. When the ball drops below this line the electric eye completes its cloud, farming in the electromagnet in the top of the frame. This pulls the ball up, which trooks the light beam furtrooks the light beam furing off the electromagnet. The bell diops turning by megnet back on again and so an 'You slook closely you can see the by whate and noting, but from a few linet away a appears perfectly moscristed. Weather's Felly is analysis from Wardine 1 500 992-9900 for 9991.

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GAMES

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Content of the first north of San Francisco, the ranch's fantasy buildings could be transplants from Danoyand Films are edit in a vest brick "whery", employees lunch in a glas

in a visit brick "wrey"; employees lanch in a glasswulled Victorian sciasum. And in a quariff rough hewn English statule house, the designers and pregrammers of Lucalifim. Carnes device computer crientamment.

Lucysfehr Garnes his been a pert of the Lucas crippie ende the early posi-Sier Wars days, a sign of his personal belief in the futue of interactive emersion meri. In the beginning the garnes were technolog colly advenced, even when the personal in the personal personal personal colleges and personal p

The company's emphasis: however soon shifted from technological trible is commonal realists, and programmes began poducing merketoble grames. New Lucadiffin Games is hitting as stide with releases that go bryond the species that lend to domnate wideo games.

reval or combat scars to the next level of visus reality in tight simulator tip. ONN







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the others blast hard frings with Stape Rey gure for straintly these Stoce Ag underschevers are ways appl. They or militated human scotely by diagon ng therpelikes with mose gassee. As a result they look like a reaso of existing took like a reaso of existing restred Grouchs Manuse. Zisk tills theily not but perme of graphic adventable friends assessed.

but playing the game is very much like controlling the outcome of a minton practice. You guide the Consense in Jugures of 25k and other characters as they warrise threatigh the general features for tuting localism in search of a way to clear the search from tutinal journalist to intergalisation exprovingly agent. Zalk and his computer around colleagues much

overcome interplanetary stirress to survive Lucialitin Genes project leader David Fox offers some finite for colong the game's offthe wall puzzlos 1. If Zak bends the butter

1 if the center in outsite the center in self in the awhite leaves at a large part as sculptured art.

2 When mapping the flayer maze, you can light

Mayer maze you can light venous combinations of the teaches (two per room) to help mark your way estinguish the teaches with the septence sent cushion —Bob LindstromDCI



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