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FIRST

By Atthur C. Clarke

•By the year 1995 the Soviet Unian will have taken glasnost into the heavens and helped lay the foundation for a workdwide satielite monitoring system whose motio will be Peace through truth [®] Many yaani ago the Bruch scients? J D Borral operiod his marvelous title book the Wood dhe Flash and the David by proclaiming that there are two futures: the flashes of degree—what we would the to happen, and the future of laba—what actually does het popen file addod "Andimans asson has tever learnt to repeated them?

Unlike our anotations we need no 1, anger passively avent het second kluw Segents has given uit het paver to control our destiny and to make the two futures confolde. It is a damperais gift fut will destiny uit drive do not kam that kolmetiggridhen to mit het wedom dioe vereensitien et or het blie of the read

When no weapon could left more think in handhui of men, herev weat toth in the did sound if you with for partice prepare for wor? As soon as a single boats board doitmois the largest only hoseway, first bocame momente. As you US approach or allows a manifold (a doctor yours too late), nuclear weapons can erve no militry purpose. Today's westore must be 'Tyou with for soace program for brenc'

He as I while these words, 50,000 micker websides are sub-cipited with an expense brief equaling that of the enginese values from the the history like, not Kalawata. That mine the capased only one handful as powerful). Anound MCP are the deform on the first and and the first of always with the sub-cipited and the first of always with contrast of the solution and the cameral 25 little terms of The Gaysalert if two cid to, there would be no Use provide the world be not all little PBpt to matchickage us in

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The churce musicipitissions of the initials finally down the lesson home By equandering implications in the langer of all ment and material, the LIS almost distroyed its ability to compete in the high tech marketpicce against such countries as Jacon and Kena

More the support of the U.S. only the support of the U.S. only relation on valuated the that are related to a valuated that are related to the support of the support patient of the support of the support patient of the support of the support patient of the support of the support (RRO). The relation of the support sup

CONVENCES Thesis her wide could life in happens, eliberts and off And 15 too like to do anything to stop it. We've been shoulding our heests of lastos larges states of the electromagnato spochusi for hait a contury. Everyone within 50 light years iscover that wave them. This is one lates of take we can do intoolatoly nothing to contol CO.

Arthur C. Clarke is one of the workd's presser science-liction works and autor of 2001 A Server Driversy and Chilthood's End









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DITY BOHFTS

SWANT OF THREE TO COME

1000ME . # 741

Success 2340 The meson Tend-twells the teamy-list of characteristic teams and characteristic of characteristic transmission (Conminuscass) Community of the ammersiany Commanding our slowest manuscassi, Community of the ammersiany community of the ammer

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The always wanted to do she kind of parelation that would result in my being involtated by the FGL and this assign ment may have achieved that for ma, Ling skiss. "Someone from AFAT contracted me, wanting to know Wy Lives calling Moscow as other. Hay r0a not my fault that Muscowies can't call mei And I couldn't dai them directly lihad loigo through an overseas gomalix."

The Creat creation spectra and experts of statist clinication of the Jaccocc prepared on faily computational schart by statist of loboxies who by the way of statist of loboxies who by the way we not starty of loboxies of the schart produced proceedings and the schart produced proceedings and the schart and the loboxies of the schart schart way and the schart schart schart bears and the schart schart schart fails and the schart schart schart matching and the schart schart fails and the schart schart schart fails and the schart schart schart fails and the schart schart schart fails and schart schart schart schart schart schart schart fails and schart sc

To further progress us for traveling inter-aboral proceeding the and tome. Other services and the services and the part of the services and parts of the services and parts of the As early as 1929 Norman Bel Goddee envisioned a Vulue that optimizer the magnetic management to the New Yolk World's Far Yut the world he protected is only now beginning to be reliesd The Sheijing of Things to Coma' (Patrian), page BB) offers an exclusive optimizer of the woorsey vertices which make today's certs think, batts, and planes (look costello

During the Eightness existence while minimum Reservices and the Reservice of the main sequences and the Reservice of the Reservice and Section 2014 (Section 2014) (Section 2014) Section 2014 (Section 2014) (Section 2014) Section 2014 (Section 2014) (Section 2014) Index of the California (Section 2014) Index of the California (Section 2014) Index of the Section 2014) (Section 2014) Index of the Section 2014 (Section 2014) Section 2014 (Section 2014) (Section 2014)

Physics and romance niethwrein Netual award wrange author Contrel Welds noveldtis 14 the Rato' (page 75) The costuthor of Light Rato' (Aon' Putners) Weld sear her take in Holywood a fown where mogule alter reality by ouertain teeps and bounds DO



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LETTERS

COMMUNIC/ATIONS

Space for Sale

Tenk you for the leature "Seling Space" [July 1983]. I Sourd the "adversamments" creative thought proveling, and amutities. Alternity risks on the back to the actual copyretures photographics work and proveling and and and and and and the actual proveling.

Los J Stat Funcation IN

Pol Access

Shouldr't someone nominate Par Gadgan ("Shoot the Noon", July 1999) for the Puktaer peace prate ¹⁷ The story is pure chight I wish I'd written it Longine Deckerson Howth

Roader Mailer

Nome Native as outborting which find a landow chapses with the occurring the value of memory space pergeness to Mars in the pergeness to Mars in the Desiry of bot cap unchai versure. Such a mesor open schade all pergives bening and the spectral versure. Such a final spectra with a space of a silf to the edge of our set-internancing Claudo Web

Of ocure Maler is correct in this speciation that the traditionary of interest programments somehow gets into the works' "Computer designers", put so much thought rate how the machinesi guing to work that some of that thought thereally manels, like time dut, into the winy matellings of the machine. This the same principle of orieng that design work matchings that were than the reweat high-tech tables barket allowed high-tech tables barket.

Springfield, IL

Woolly Idea

 I read your article "Loaded Nopies" [Continuum, July 1989] with starm Lanolin you stated, is culled from staughfered sheep and used in a variety of skin. care lations. I quickly called my local warmania, who taid mait that lands can be derived from the shoup's world as well as from their skin. The former method motives no intermentionals situation of our evolution baseds.

Supe Epetern Austin TX

The Dating Game

I septous of the 28 day 13-month-ayear calendar ("Luns: Timeleeper" July 1969) but Sebudays and Sundays should be on the Waskands John Dolour

John Dolinic Buffalo

Al of the Beholder

Vier nast Thatting Signurd (Mod. J. Vier stat) Thatting Signurd (Mod. J. Vier Stat) July July vier status (J. July Vier Signurg), July Vier Signurg), July Vier Signurg, Vie

Martin Sandry Kenneth Peser Chicago

Animal Behavior

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Si DARA

100 YEARS OF ATTITUDE

FORUM

By Maryin Cetron and Owen Davies

An instantial series of antidocel reasons by end of antidocel reasons which and the series of the borns of the series of the series of the borns the time shaped lumina strength and the grant attractor correlation of the series the time shaped lumina strength or the borns the time series of the series the series of the series of the series the series of the series of the series the series that series of the series the series of the comp years begins to series of the series the series of the series of the series the series the series of the series of the series the series the series the series of the series of the series the series the series the series of the series of the series the series the series the series of the series the series

In the spatial is and observative effect in the same holds of a closeline workshow of Southand Francek works has seminal books and pages between 1995 and 1906, noight the same years in which finals. Loyd Wright wais chairing has another hand mexisterin Besthowen and Einstein did herri formanew work change final later two years of one contary and the test the wears of the next.

Been here latern food mote buddy of the and of they point provide motern communication methods. Before that and a straight they be that an additional straight the straight in one county a live aligned autocation in one county a live aligned autocation and a straight index dependence and a straight index dependence and a straight index dependence have movements and repid change and straight index dependence have movements and repid change and straight index dependence have movements and repid change and straight index dependence have movements and repid change and straight index dependence have movements and repid change and straight index dependence and straight index dependence and straight index dependence and straight and the straight of the repidence and straight index dependence and a straight a

We can see the turn of the-contury effect throughout much of hatbry Lattus begin at one historical turning point, the final years of the filterath century it had been a bary contury already. This was the age of the Gisrof inquistfor Traquemate of Jose of Are of Catenberg, of Da Viecs and Dater to deal but in the 140ps have carrie allower or disability the work of testinger of a coalary har work of testinger that is a second of the second second second but for all is an uncharacteristic to the second States in the orthogon of the second second Model and them noted to Partie when the souther the States is the second second model and them noted to Partie when the souther the States and Partie is the Linkewidty of carcow the bogs ming at a line of inscript fluid word when the souther the souther states and the Linkewidty of carcow the bogs when the souther the souther souther the souther the souther the souther souther the Linkewidty of carcow the bogs when removed allow halks portformed in the states and the souther the states and the souther south

In 1462 Columbus set set for the Far East and descovered the New World. The safeterth century would be the age of restoration

One century later, in the 1590's and early 4000's, we trid a trice of scantific decovers, attempted concuest, and



Do new centuries expose new genuines?

the gooland therey appounds in Halay, the was the time of Calision's time works and Geordiano Bhano's test, of Tycho Beaha and Johannere Kopie When the topological stranger for the When the topological stranger is a stranger of the down any quite stranger is not could hereatly clubber at metals, no one could hereatly clubber and path and use one center of our solar system and just one of countiese states

The revolution in bioreaux on the 1590 owe just as historic Alow ell, his uses the time when Clanuarizes works the less part of Doo Ouxies, the first modern rovel, when Statumust Semier publishes Epidemicron and France Quasina, and inten Stationperere works the Scoves (in cy oblighted with 1900) and high these basits of his plays over a round of the semi-

Dresoning whose networks the term of the second sec

In the trible music and the arts still appear throughly classical at least to motion sorrollites Highle worth his London symphosis and the gired oracron The Chanker, and the gired of his chamber music literithwen becamb in student in 1728 and a docade later had timity established the Romertic movement in music

Yet in politics we come at last to a period that begins to look distinctly modern in the New World, as the decade opened. Washington had just connext opimics in



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hnics



JAPAN'S SPACE KIDS



By John Vacca

Install all and vices metals and hostobial larm vices motor was proper and by young actional, movement with toth last Nung actional, movement with toth last Nung action last character with toth last Nung action last character in the last of tother action of the last of the last of more provide and part of the promore provide and part of the promore character is the last of the prolater and the last of the prolater and the prosent of particles and a crystal-charasent of the pro-

That purpose is to propare the next periodition of young Japanese for conters in space. The affect downlark with Japanis recently announced plan to create a assisto program first, beginning around 2000, will include manned space vehicles a space shuffe and a painoph of commence large vehicles.

Io 0000 to YMLX exist in Lapan, with more to come. The Japanese have also built hur spice camps (hwy call them astrocamps)—youth training facilities that use expheticated opticeorall simulators and has are modeled. on the first large-scale U.S. Space Camp at Hunteville. Alabama, and the Cosmosphere at Hutchinson, Kenese

The difference between NACs in depen and in the United States may say something about who will need leavy dominate the next century in space not in the operation, politically changed exploration of the solar system but in the lumiter, infinitely open field of commercal space activity.

The American cubig are formed in whosh under the support of the nonprofit foung Alexnasc Council buncks in 1964 a pain of a White Hasse within to upgrade American schoolchidin't poor portionmais is metal and setting. Our moson is to deliver and setting. Our moson is to deliver to stimuliar American with it submith and opennot by using the space program. Tais a gaut, teaps T. Wencel Buder, secondare directing the graps which motives 2000 schools.

The Japanese form W4Ca in association with acaince museums and cear



Takeo serious. Garaps give plongstate fue maketic space travering and a career boost 70 DMH From toward training and stimulating children who are products of the superior Japanese school existen

The Appress have an advertage over met, says Bater Ther kels are already lisite in scance and math, so they see the young iseconsul cities as an opportunity to use our program to create the image that there is a future in space. That is, to sell casers in space to their work.

Their blang Advanced program made as wely to Japan when one day 'is guy from the Japanese embassy dama kinaderig on the door' requesting material to start a space program 'NA the time there were only a handful of dimer chapters in Jahn Amenda and Canada, says Bullion' If was clear they would move whit us or whoch us i clearabled secular make servers to coppedie with them."

Assume YACs get support the Annual in curving status on only direct of When the first cuts was organized, unwhile Similar makes with the term of a bailing for the group's headquarks in another assumption the Yeshkanaa. Exito Blowcaise a huge high-incidnal tissign Celcker of the year took on all on agreement bailing in the Wach tissign. Celcker of the year took on all the algorithm bailing of the the term of a space for the organized as the term of space for a work to bot the the damage space for a work to bot the the damage.

"It would make me happen if we got that knot do support: Jown Butter (He southers every year for his S3 million budget, which correct from corporate domainose, Lonaniary basels (He posplends is logo for a fee, to science tays and other preducts) and build from member actives.

The Japanese YADs have another scheetinge Electric exponenced by a single companion such as Nppor Electores Corporation or the Yomury Stratum newspaper in 1990 Neppon Steel will open a space camp on the elector of Kowshi.

Japanese corporatoris, geeing up for commercial ventures in space contrato or motions

ADDICTION AND IQ.

By Linda Marsa

In crask-addets buryd dedi withiak-arryty pees ductors have twent within a metry pees ductors have twent within a metry pees ductors into convulsen motion. Semistra aver now bengrinning turkinsand with the occarria is a additione and with the additioner to simulate with the name there at the Userset aver do the metry turking turking and the simulation of the ductor backbonner implant, and in a ductor backbonner implant, and in my mote and an and the same process at the addition from the same process.

In science of incremental, Larry Sam, chem and CUS copartment of DS copartment of pharmacology and psychopharmacologic and pharmacology and psychopharmacologic and the science of the sci

Budging the invacationships of address, swall an electronerse the and before service the and before service the only address the and before service and control of the invacating similar to the control of the invacating similar to the address and the body address and address and the body address and address and the body address address and the body address a Bein and lielutzo examine neuron tamba signal markana in the haman limits a system because in the orterand limits a system because in the orterand because in comparation to that in an interfaction of the system of the system of the system or not here with the system andher group of orter compares in the analysis of the system of the bole market group of orter orter to bole market group of orter orter orter to bole market group of the server sole using the market market barre of the server sole using the market market barre of the server was using the market market barre of the server was using the market market barre of the server was using the market market barre with the powerful market barre orter with the powerful market barre of the server was using the market market barre with the powerful market barre of the server was using the market barre of the market barre of the power of the server was and the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server was using the market barre of the server was using the server

In a sonse, the purpose of We is to activate our reward systems' declares. Starr, who thinks dopaming and the opeod peptides function as the brains own genologument turnervites and may



Smarth bran cafe onew opparts

be expandible for many forms of exempt and continence, as well as addicate. "Department and the optical population and alternative in very poper to located and alternative in very poper to located and alternative contraction and alternative costs located and have characted very atmite to or can phatmascrippidal population and phatmascrippidal phatmascrip

Why use a costine is a reminor * 7 in the words instructions is publish the mast addicative of the addicate of type, sign 50m, 100 course, no cent has costably to see how addicate on the set of the addicate on the set matter is thus addicate on the set inter is a the amount of the set of the phermacological approaches are come operating and the balantis second spatial them being automatically addition them the set addicate on the set one operating automatically addition of the set of spatial them being automatically addition of the set of the set of the set of spatial them being automatically addition of the set of the

But my primary inferent and tables to astrought the issuanding particities and the option? In adds, the inferencement? The restance of the option of the inference of the inference add behavior. Other the option of the option of the inference of the option option of the inference of the option of the option of the option of the option option of the option of the option of the option of the option option option of the option option of the option option of the option option option option of the option option of the option option option of the option option

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DO THE RICE THING

ARTS

By David Perry

here ero kempines on the should at San Francesco They bet at the derivess, lick ther lips hungrly, Outside Frankey, Bit , a armsil boolahop next to a seedy theater on aniv Brack, dozens of them line up to an automose with their tube, whole holdmo out in seco

Envision e verripite disguised as Anne Hati long black har, blood-rad lips: drassed in schooligri plaid Bahalo Anne Rice, quaan of the damried, sumantead by studies of the verifs she has chasted.

A punkish young woman clad all in black seeps forward. "Here," she says, oftening Rice a delcate crystal amulet "This is for you."

Methodically autographing copies of The Queen of the Clarinect, the most recent values in the xample character, Rice rates har fixed and smiles. There are no tangs. "Thank you" she says. It is the vacua of an author who maritains a listed phone number so hars can call her. "Thanks way much."

Transing, the young woman turns to

me "Vampres are real." she says parting "She knows Ask her"

Later as Rice and I recline in the back of the white Chrysler Impugne provided by her publisher, Knopt I ask about her literary creatures

The sivings been faconated by the vample, the elegent yet evil Byronic fagure, "Rice says. This easy to say it is a matepher for the outsider, the precision anyone who feels tradicish or morestous or out of the but appears, normal."

"No, but are they that?" (I'm beginning to feel like the reporter in interview soft the Vampine, the initial volume of her chromotes)

Boo smiss, both glearing in the glow of the strainights pisong by "Thiel opportion or when you alk me and what mood this in" are answers. Laughing "But associated, and the straining straining and this migration. Variptica are powerfully influe They control our or are of the desit, our later of barry sucked by by guit. We also long for transcencion and immortably." She uthers interchally with aimst allocus anywance.



Interview with the varianalogist. Will her work easiers be asked transport as ONEV.

Some readers, I suggest to his, believe that the vergree-child Claudia, who hungers for its-settering block, represents the learning block, represents the learning three path Severties bet to learning in the setub Severties.

"I'm sure that is party true" she says "But when I write I don't thank about things like that, Only leter after it's done, do I discover things that even I wasn't aware of

Although she wrole interview after Vicinadi's coath, Rice actually that considered a novel about verrpres in 1968. T resi down and typed he wrole. Shall we hold the vitarwew hero seed for the vergree. The became the seed for the interviewer book.

Rein tax within stock stock that with the stock of the start of stock and stock that the stock of the start of all stock and the stock of the stock of the start of the stock of the stock of the start of the stock of the stoc

Turning of Markel Street, the Chrysler oruites down Castro, a neighborhood of gay bers, Inth vectows, and it you're a believer, verpines. 'One of these over there 'its, these, 'Rice exclaims overthe



1956

A STATE AND ADDRESS OF A DESCRIPTION OF

1990,

out the Impusing window Liesn over for a better wew Arw of the caw bers could be Ledels versore ber But shes and no comos, on Eichteenth Street ust off

"Vamores transcend gendet "says Rice, who once described hereof as a

Outside Bacliands is a cluster of be entering a legendary meeting place smoke, murmur over the din of disco music But in the back, behind the velvet ourtain, could be the secret creatures of the right whom socially-lights

Tranking I've been privy to a great revelation, fin disappointed when Rice Leebit's vempire bar. The meeting place. she acknowledges, is really a compos-

Farther down the streat the car stoos and Rice looks around her oity of opion for 27 years with poet-husband Stan

ame to teed. And quick as a bat, she alofts from the car and darts into the weight and charleness of Lumbs street from her home. Inclusive states follow her to our table in the star Whoor perhaps what-they wonder, is she? "Tim pretty much of a recluss" she

says as the water scale up 11 don't op

Based solely on her published work, I expected to meet a seconsochistic

No, she is not a witch No, shifts not instein-"altouch the mentaly explored Presion author of gay S&M novels. but no she's not a dominatry. She was believes in nother organized religion nor God. The woman across the table from me is more like Aurole Mame

author who has, ansuably, spilled more human Me." The woman who heaverfy drects her own personal anger toward the hatred of women

Tumma to the water who's come for cream sauce and a glass of mineral water No bloot, not tomato sauce or

Garto broad? the waiter asks

Fion looks up at hen outzactily

"Yes," I respond perhaps too dukckly "Lots ' is my nervousness showing? My hand tripering my tightly buffered have worn a gold cross around my neck

"It puzzles me that there is such a gap between the ontos' perception of my books and my readent' reported to leaves "If someone from another planet very recearching what humans read couldn't possibly foure out why anybody reads my novels. He d cet a better

"Obversion" she save and her latest can on UFOs I wetch everything I can on

6 Currie as a bat, she alights from the car and darts into the welcoming darkness of a small Italian restaurant Inquisitive stares follow her to our table Who ... or whet-they wonder, is she??

on and, whatever it is it needs further renstration Al Lizon a for them people say they've been abducted and beinweit. It's incredible-attact to be in the dark, thinking they were carried ott in a fiving sauger. There are women lost their babies to allene. This is a symptom of something. And even if it's

"t al intro ies me mohliv," she savtnever tawing seen a LFO but belowing cavairvativos. "I was alread to go to the bethroom alone for weeks after reading convenced I was going to look up and

It seems, then, that UFOs might be a subject for a future Rice novel. She

finally her alter-dinner collee logation "It rust might bo

The toll of midnight is tast approaching

when the chauflour returns and Pide autograph, she invites me to New Orleans where she will soon be irving in associal Southern one Liberarch one last cuestion is Arres

Roo atrad of anything?

"Yes," she provers, stepping into the Imp "The dark "

Several months later I stumble across story San Francisco Victorian town house Renown harriwn viellor a popper out, a reminds me of the loy dwelling in interyour with the kintane

books, their subjects renging from sex mythology, I find many of them inscribed Ynne O'Bnen Roe and Stan Rica. the tront lawn don't know that this is

When Fine comes out to open me she acknowledges that the carriage sale will benefit Swreizzy the prose school no longer be attending. Nearby, eating a futiony sandarch Christopher oversets

Ladmire a Quis board (ve sust picked

scared to death of it? She automaphs the back of the box, sewner this power

"I have the crosslest respect for such 1 just don't get the vibre. Our house in New Griesers is supposed to have a ghost named Pamela. And concidentally, frere's a ghost in 7bs Weching Hour Iter next royal, but I had planted that

Yes, she believes in ghosts and in communicating with them. But I don't word to see Parrola "she says. "Di let her do what she wants, and, hopefully, she'll let me do whet I ward

bats and blood dancing in my head Will want to do is small the mechanism

isten to the cicadas, and write my books," she says. 1 love San Francisco. but tim less alread of dwing when tim

vamprais 'Dark Gift' mmortal life played lacking the treation mare monals take for granter??

"The west," also exclaims with supernatural speed Wouldn't you? Follow a lot, but I couldn't turn it clown. Int heave to take life raver clearly DO

28 CMN

You always come back to the basics.

count factors reacting, formally and a

BIG BYTES IN NASAS BUDGET

ARTIFICIAL

By Robert Fleming

In the next two years the migration (VAA) in the next two years the migration (VAA) methics and two years the migration (VAA) webstwo-energies (VAA) and the migration (VAA) settles are estigated with the migration (VAA) settles are estigated with two years are at orderener ang PT-10 percent in two years. And accounts with the Data Within (VAA) and two years are at orderener ang PT-10 percent in two years. And accounts with the Data Within (VAA) and two years the account of the two years and the Data Within (VAA) and two years the tap people to each more baseling jobs in the pervelope accounts.

This chickens have come home to root," any science Gathymaniz, an associate professor of space law and policy in the space students disearment at the University of horth Dakata The custed staffing profilems are a needs of catbacks that begin during the Apollo.successes which gave America the histoar monon living ray. Attempts wacz says. "For many reasons, holding the optic of the viscole program. Ho critical of the space program. Ho critical differences and the space transmission of the space program. Ho back and simulation of the space program space space program of the space space space program of the space space space space reaction of the space space space space reaction of the space space space space space reaction space space space space reaction of the space space space space space space a cleant of originations in the space space of the space space space space space space a cleant of originations in the space spa

The wave of budget chunches continued through the Foot, Canter, and Reagan administrations. NASA's budget which hit \$167 billion during the Soldias dropped to \$6.3 billion in 1996. It is now inching toward the \$10 billion mark Appearing before the \$10 billion mark Appending before the \$10 billion billio

Commerce Subcommittee on Science, Technology, and Spece, retried NASA administration James C. Flietcher recently, warned sengtors of the "potentially



Booted IN/SK's casterrands shouldn't wany about /Bing their producestory' shoes. 30 CMH

desentrous structor's awaing MASA / the budget or concreased to the and than now personnel. According to Pidebie: the buds solution to the proving expetience gap to to triplico entre light controllers and wrighters with smart, computers agable of handling remm of data, thoulehooting potential create and networking it a proferm 14566.

The ambit is subject of boths in receiving the subject of boths in receiver the ream assumd the correct forms at Kennedy Space Certex mendering shattel largehas or running measures the shattel largehas or running measures the Detrier in Necessary, men goal is to Indice their subject on the subject of the Acad Schemer (Correction) from the Acad Interview (Correction) from the Acad Intervie

Most of the engineers and sourch as training in opposite to be come in the pendent very queries in the come in the pendent very queries in the come in the test of the source in the come is the new queries are not easy to earn the new queries are not easy to earn back engineers who managed the agon cy's expecting sources for a light generation of the furning of source and the pendent ways they are in the applications of the furning of a light (they expected and they expected a light (they expected and they expected a light (they expected and they expected a light (they expected

One expert system A1 EASE (Automach Test Expert Ading System Environment), hilps new signers wrigh the accusacy of the computer components in the shuffle large room thew AFEASE (despite its feedball), offsering stops analytical memory and genes programs, XFEASE is les and environ expert, associal guides the rear gays frough the process with the Hantion methods, usual Loachted

Borne intelligent programs are already control internet from the OUT OF AFRICA

EXPLOR/ATIONS

By M J Wilcove

A characteristic and timmaker Douchan Gers faced a cleanms in the opportunity to go to Bornoo ine would "rectione a sigtion off umspeed men in evide a sigtion off umspeed men in evide on the 1867 autoscopphy Explorer (Jereny Terchen) "Ail thei would fulfic ing deam"

There was don't hitsh. Now camp for an inter disaptive two wires no longwerrant to good-ings with time as the had horizon and provide the set of the set of the horizon and provide the set of the mandate and have more tables like her horizons of the set of the like her mandate and have more tables like her horizons of the set of the horizon of the horizons of the more tables. If here made in the horizon of the horizons of the or the horizons of the or horizons of the or horizons of the horizons of ectours reso Mercussis Greisinov Head with her mother land has barteria abgrafisher and her bart children in a large subarteria. However, homes She receils at sports, lowes annuals, and spends house on the planer Manfanmp high gesdes in science and Latin, the gragemask lowinger warrant to go on to college and study for a career in barteries.

Bother distaisen may testatas about gannous, hence operative with with any digwalet, fram alway to an movcounting the suit of frame-year-did Marcouce, such an offstage tethers a magnetic protect. Management and any always and any second and any second Shor gont her microry vested in a sucker based calenging to the microry vested in a sucker based calenging them of the site of the distance of the gont and the good before the downersky thread (downers) with the fitter and the site of the site of the based calenging the Avai at the age of the alto table of the site of the site of the site alto table of the site of the site of the site alto table of the site of the site of the site alto table of the site of

Still Mercuran was 'alide surprised'



Summer in the sevenesh Med monkeys, tropard land, and divoses' discoveries (8) OWN when her father called from his Los Angeles home and told her he was coming to take her calenetity ise he cinematography assistant, on what found to be her most unusual repedition.

They would pop perfected in fully and galaxie in the law and Armacian cryptizedopige Rey Machai a network in control Marines Arma The bearcons would aeerch for a wrapper temport har trey bia a phandacturk, a contemponary of the dirosawa long personanced address to a strategies on personanced address and a strategies and a strategies address to a strategies of the strategies address and a strategies and a strategies address and a strategies and a strategies address and a strategies and a strategies address address and a strategies and address address address and address addr

"Total Marris and she jamped on the subprotre and stated to scenae at Dady roads Marouseist dawy entry of July 12, 1968. This so camparous, after and Liad issiand har what is the bash memory of your life right now? Marea seat the tro you and I look nither bashrar when were 18 And Dad said, are you ready to dayme our dagman of she were 18 B. And Dad said, are you ready to dayme our dagman of she in weight 84 M Dad said, are you ready to dayme our dagman of she in weight 84 M Dad said. are you ready to dayme our dagman of she were 18 And Dad said. are you ready to day whet do you hink? Of course, I said, I were to day.

The following translated excerpts from her clary tracking the Nemios trus are augmented by her comments in later conversations. If is an eccount of a pill coetruning cleath and emerging four weeks later with an affered memoness of the value of life

values 5 % the and d white here its wayhot during the day wery celd during the might. What is existing a that the caruffy is just seatmenth and here are so many winness. It is file grang can able. These are direct marking at the bits of your Winchosel) And we see that, antilopo, only, and many rabits usuate A weatering at so colorwewert to escione skeps. Will depoend a marray, deep bale and rabits have the regions of ayoung relation. Day they the depoint of ayoung relation. Day they the tempoint of ayoung relation. Day they the tempoint of ayoung relation. Day they the tempoint of ayoung relation. Day the set to response of ayoung relation. Day the set to response of ayoung relation. Day the set to response the set to the set of RONE VOYAGE

BODY

By Jeff Goldberg

a meeting on AIDS last June Johns Hopkins University respectives announced that traces of the HIV wrus from an AIDS manow transplant (BMT) Earlier attempts to treat AIDS this way had falled because the virus quickly relocted oncologist Plain Saral's team administered mecadoses of the antiwal drug days after the surpery the patient's

After web the men subspace works that from a propriating cancer Saral finds the overmony results ecouracing White relignment to go I the A7E transmingt combination a potential cure for AIDS

Anesses doctors may someday treat with bore manow transpierts. According ment, the transplants could help concuer 34 diseases including blood fullwarms. Until recently the procedure remened a last resort for patients suffering from in gama and tadjation exposure BMT surgeons are combining more sophisticated manow matching transplants frequent side effects to fight a wide range of diseases that disrupt The entrance mattern in 1906 three performed 4,000 BMTs with good results, clouble the number clone annually

to perfect techniques to offset the matches between donor and recipentof manow typing and the current scaroly of donor tissue. (Unless a transplant nativo) is lucky enough to have as identical twin to serve as donor the colds of a perfect match are around 6 billion

to one I Bone marrow types are far

konnys Mercer plays an introate and producing hash supplies of caggerbearing red blood gets and disease

often complicates the patients' recovery from the processing Because the blood pells responsible for tissue rejection originate in the bone manow a less-thereperfect match can result in the topperother ordians. A potentially lethel and by vulnerability to many infections Albouch new taken worrd technologie allow BVT sumeons to metro their patients' manow more precisely then ever before, about 50 percent of those closely fried to the quality of the match

prevent GVhD by using T cell depieton.



Marrow Increasion's new weld many cures

colleagues discovered that the primary cause of GO-D was "kiter. T obtain with different methods of removing T cells from donor marrow and found that leafin from scybeans combines with sugars on T cells. Once there acheved. the T cets can be seen a seconded tion other manny cells in a certrifuce Using Toel decletion," says Richard Offerty chief of pecisity: surpay at

GVHD also includes monocional anacodes-anabody proteins descried equipoed with try warhoods of a recognize and destroy only T cells. By meeting patients with these more scored ballistic musters. O'Relly purpers their blood of any remaining Ticella. effectively haland GVHD in its tracks

Still another way of cligeting the effects of GVHD comes from Stean-Kettering researchors They have harrested blood pell growth lactors like interies for 1 and viertified one factor cranulocyte colony stimulating factor meturation of blood cells in the bone mentile Malcolm Moore head of the hospital a growth factors research effort. believes he can use growth factors to errmane systems after BMTs. "In each at different times to cause the step by step development of the vericus types erate the same process after bone

Several advances that may ultersately transform bone menow transplantation CONTINUED FROM PAGE OF

ADVERTISEMENT

"What does not change," wrote poet Charles Olson, "is the will to change." Those taut lines could well serve as a motion for the stamming advencements in technology, medicine, and exploration that have characterized the past. TO years. Now, you can gaze into the future by filling out ...

THE DELPHIC POLL

Below are a series of statements that predict future developments. Do you think these changes will take place before 2050? If you believe they will, check yos. If you don't think these changes will take place before 2050, check no. There are no right or wrong responses – 2% your opticits that counts.

MEDICAL

 Computer microchips will replace damaged sections of the brain.

2. Scientists will discover a cure for cancer

3. The everage human life span will be 100 years."

 Genetic engineering will enhance and magnify human abilities, creating a superhuman.

5. All surgery using knives will be replaced by noninvestve, "bloodless" laser surgery.

6. All genetic disorders will be corrected in vitro

 Male pregnancy will exist—man will carry a fatus full term.

8. Organ and tissue cloning will replace donor transplants

EXPLORATIONS

9. A manned mission will land on Mars.

10. Humans will travel to Alpha Centauri, our nearest star neighbor, 2.5 light years away.

11. Altantis will be discovered.

12. Permanent observation satellites will be orbiting each planet in the solar system.

13. We will establish contact with an intelligent alien ifeform.

14. Humans will journey to and explore the center of the Earth.

TECHNOLOGY

15. Small, easy-to-use aircraft will replace automobiles as personal and family transportation vehicles.

16. Scientists will find a way to control and direct weather systems.

17. Voice-activated computers will talk with, listen to, and advise human beings on psychological problems.

18 Technology, land use, and architecture will combine to make Earth a second Eden

19. Perfect living environments will be created inside protective bubbles.

20. Electricity will power automobiles

LIFESTYLES AND SOCIETY

 Acoustical musical instruments will be superseded by computenzed music.

22. A woman will be president of the United States.

23. The moon will become a major vecation resort.

24. The church of Techno Worship will depose traditional religion.

25. Food will be replaced by hunger-sating, timereleased nutrition implants

26.3-Dimensional holographic movies will allow you to enter the picture.

27 Mind excursions, cheam-like fantasies stimulated by brain-computer hook-ups, will be used as minivacations.

ENERGY

28 Resource scarcity will make oil and coal more valuable then cold.

 Lightning bolts will be captured and stored, becoming a major source of electricity for the Earth.

30. Mining operations will be established on other planets.

31. Fusion plants will be powered by nuclear waste.

MISCELLANEOUS

 Faster-than-tight particles will be discovered, bursting our conventional views of the universe and of time.

33. Every plant and animal species on Earth will be identified and cataloged.

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21) 22 26) 27 31) 32	23	29)	30)
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E.T., PHONE TORONTO

BOOKS

By Robert Brody

A metaple dealer acryute a unique chease set, its process consisting of puries based on the Lend of the Rings. The only problem: He has never resol the Tolean forces and can Lidently the characters for prospective Duyon.

A high school student turns in a suspiciously femiliar sounding sciance lictori story His saacher nexids to learn whether the tale has been plaqueroid.

The piece to call for even the most clearue science-factor information the Spaced Out Library, or SOL. Toronto rescionis and ventors, of course can always wander into the Toronto Public Library building and check out the science-factor detection themselves

A continually growing service SDI, often approximately 2 DDI newlis and inter-stay antibiogate, as well as necords, newcopper clippings arthors, and bein commis and Qui-d'pant periodicals. There are also nonlection bolks on such subjects illi spiceli esploration, indilateratory perception. tenzenes, the ameticus panedicials published by science-fection fans, and to special aditors of books produced by smell publishing houses. And SOL is Julies Verne Collection consists of more than 250 oppers of the French author's works in Fingelsh and French, logother with pomic books, games, and other Verne memorphile.

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When and when was Aamon's trut short story published? The innervo' is too digits away as OMM

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With fyers and other notices from Hungaren, Poteh and other SF societies, SQL's builder boards arbeit to how much the library's reputation has speaked arrang the global societie locker fam Seeling material for their own scholarly works, researchers even fly in from other countries.

SDL dates to 1970, when Canadian SF author Judith Mentil marining out electrinithe with home monitoring out 5,000 books to the Toorto-Public Library. All them, SF wild bootcomp both correspondences in and inspectable, and more scholies were developing ain measet in 17. Mentil says. "My books were cimbring the walls, and i had thought of selling them, buil knew fol never get their Juliania."

During the next fee years SOL operated out of an old house—unit the last Beerline, when a Toronto housing respector wanned that the structure would esson collapse from all the weight. New the collectoria cummit boatton is statissed as feet high in a statuge techat and soil out to the higher

Within two years, however, the library will move into new and larger qualities. Then Tools hops to fulfill a long-standing desire environmentally controlled somm to protect the offen-fragile pages "doally foll like an industriel size trease." Tools says "But not to wory Source totom new gate state" DO



CONTINUUM

MORAL PROPAGANDA

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In fact, despite all the president plot the contrary the preson detarged data likes which want is a sense than even exchanges either have to mack and up abuse or banally data plot the behavior in Amateria and a sense plot the sense of new recent). In the first plot plane is a data base of new recent to the first plane and and the sense of new recent to the first plane and the sense that the sense of the sense of the sense data in the medical base of the sense data in the sense data method all accounts and write sense of the sense data method all accounts from the sense data in the sense data method all accounts from the sense of the sense data method all accounts from the sense data in the sense data method all accounts from the sense of the sense of the optimation of the state is from the sense that method and the optimation of the state is from the sense that the sense of the optimation of the state is from the sense that the sense of the optimation of the state is from the sense that the sense of the optimation of the state is from the sense that the sense of the optimation of the state is from the sense that the sense of the optimation of the state is from the sense that the sense of the optimation of the sense of the optimation of the state is from the sense the sense of the optimation of the sense of the sense of the optimation of the sense of the optimation of the sense of the se

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TRAPDOORS FOR LODSTERS

Amount lobair finammin by conn millions of tags overy year—extre 2 million in New England atom: The Insulation is that at least 250 000 of these traps, colled pats, get lost on the ocean floor, meening that any lobates trapped inside will eventually de of azavolation New a scientist of Stevens Institute of Technology in Castle New an Castle pats will be that the chrokeped a solution pats with plastic side find

Separation is seawater Nermarki Gaschaver has developed four experimental availabation of the corrition interfore polystrykees and objectoryten Network and and the seawater of the seawater events and a large seawater over the seawater and a large work over the material that will be material that will be considered and that will not developed behaviors and anny ducation through the optimum and the seawater over the optimum and the seawater over the seawater over the seawater over the optimum and the seawater over the seawater over the optimum and the seawater over the seawater over the optimum and the seawater over the seawater over the optimum and the seawater over the se

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> d absolute lessure comupts solutely '

---Eduar A Shoal

PEDIATRICIAN ON A DISK

The latest entry in the computenced medicine field is a software pockage first can help pereric diagnose alments in chicken under lifeen when they can treach the benit cantaincan

Locate inductores to the construction of the second secon

Third baryon Says Lundata Wondy Sahutske 14 something is secouly wrong? such as a cut that won t stop Second. Third Rath a measage Indiatance act works. HSLP Now

Satutske says the Michigar complety is also dwaioping an infent cere program arred at parents of newtorise and specializing in such things as deper tash unthillosi cost problems, and even incleasent crying

---George Noblee

NITRO-BUSTING BUG!

The none advanced ledition toology for claiming up and contermined with explosives in an encardly, the damp truck the furned burned but the furned burned but the burned burned but the burned burned but burned ledition and there sites may one day be an indexed plants and other sites may one day be markened him the opposite an afford by advanced burned burned by a start of the second burned by a start of burned burned burned by a start of burned by a start of the start of the second burned burned by the second burned burn

Los Alemos bacherent Ma Undets o official backnos litom several sites contarnnitada with applications and tosted the miscibesi abbly to drive down on composited like minitatubure (TNT) and introjupcern car be spatiy backan down by microsegariame no watay, carbon backat, down by microsegariame no watay, carbon disode, and mithels "app-Lifeding" We are studying other calimits are send an



Damping I'm old track. Seen to the Userand Incharge?

abolizo TNT

University points out that microarginarians said to clean up explosive-stanted answith while to adapt to a stantey of weather and set not going to use genetic arginearing." University missis Soil bacthers are so adapt able you can grav them with the conducting you want with the conducting you want with they adapt."

If large-scale cleanups with bacters work, hey prome to be much simpler and chapper than outset cleanup efforts. "For every delar spent on the method. University of a taken body tween ton and a hundred delars to do the job with dump trucks".

-Sharry Baker

'A fishing rod is a stick with a hook at one end and a loof at the other '

-Semuel Johnson

"Good behavior is the last refuge of mediocrity" —Henry S. Haskins

BEER BOTTLES WITH

Next time you grab an exceld bottle of been siting on the shaft Bottled been siting on the shaft Bottled been se not antight and begins to bee its crup flexor after R0 sings' Now help is on the way. A California company wints to gut "gills" in been sottle cape

Ion spent several years working on an artificial gill that could extract oxygan from wear, footing to develop



Bior bothers get alread. A new method to keep your brow buckly comes as a broath of linesh ar to beer connectances.

an underwaat intr-support system it sought a flad that could bind with oxygen and filen release it, file way human blood functions

We developed more than two hurstnist and hity compounds to do this,' says Aquansubos vice-president. Steven Camparise But the potential in applying this tochnique to packaging oxy gen sanistive loads.

Enter ZapasA Industries of New York, one of the workd's bigginst beer bothe cap menufacturers ZapatA and Aquanautics will spend \$2.5 million in an effort to develop a bottle cap that will absorb oxygen retard spollage, and orieserve carbonition

The two companies hopo to pul just enough of their companied inside the bottle cap to do the job. "Beer dinkers work own notice its there" rays Camevale. The caps will need FDA approved and could take two years to reach their abort to traverse "but can then be suite that your breve will be as that your breve will be as that as the day it was bottled.

CONTINUUM



Where has all the Marban Romosphere gone? According to one inscry. We red planet is an may hime onen store by rocks with a faster for parbon disade

MARTIAN ROCK SCENE

Four balloci years ago Marc had a carbon (labedde afrocephone up to 20 bines thooler than Earth's Al least had's what many rosesechars believe Textay that ancient atmosphore is trapped in the red planets exil

This is one search to to explain the recent discovery of the minerial scapelie on Mars. Scientists at the University of Arizona estimate that it accounts for 10 to 20 percent by weight of the sol on the Martein surface.

scapenie consistent according on tranh of the earth's crutic Cartain compositions of the minimal moophalia catcon dioxida in their Structure it Mars once had a historia catcon dioxida at historia catcon dioxida historia catcon di professor and director of the unwriting # Pincadary Image Research Laboratory On Barth carthon dioxeta is locked into continuota algae, and serviced into the almost their infolward into the almost and other specification and and other specification and other specification tensors libertuate Mark is a relatively analogical priorite however (acknag movements such as plate reformal) the carthorid divide wardhint get movinkid, sings Ginger

the present on Mars variesthem less than 10 present to se mach se 30 percent of the Martian surface, depending on the region

Many studies have desovered a close link between prejudice and patrobari Externe Spati we atrost stways reper-petrots

-Garden W Albart

EVILS OF PRESCHOO

Some parents throw then toddens into projection programs so than children will learn to sociate with others as quickly as possible But according to one paychildrens this approach could backline

Lawrook explosit potentic lawrook explosit potentic lawrook (1) dialoch and Darw, forunt that young thritisk well authan old poorth in a soldied. During his fan an soldied. During his fan an soldie dialoch in the new soldhaws that wold be and the sold one more liked control of the sold one more liked be and the sold one more with a sold the dialoch and the sold one balance with the preferred to apport once time with words. Builden's with words words. Builden's with words deternated to her ackit lacks indexts in Harry sign For the cases previous backs in galary to be body backs and unger not be body backs individing the body backs individing the work to prents work full time. Tachiney work more than hey need social sinks, styp need social sinks, styp need social sinks, styp need social sinks, styp and they million and product is well actuated pagets her social more than the prent in the and product is body may be used and the than to those hersping out with to those hersping out with

-Goorpe Grwell

" To die for an idea is to set a rather high price on conjecture "



Kitts without edul valenachers don't make the grade

44 OMM

ULTRASOUND SUSH

Alternation of seal in occasi sensity have unappetioning stored of gravement this wome in their taw fait. But it a learn of accented from the United States Frider, and learned has any thing to say about in these such scarse may somably become a hing of the past, thanks to the women's of these out

Intercentia merco or impecting starks, which usually bikes place during the Nichtig process, is to aly the filets out on a transformit table with a light chang from undernabit and simply eyebot the fich for earmal But, says Comel University local sourcest Sayed How, how Waal Ingencien with miss any farvage embedded more than one if find a smith door, making that as many as 25 protect of he wome may doop adductor whom Rev and the solelagues more than the tip plo of cool when with the tip plo of cool when with the tip plo of cool when with the tim plo of cool when the held they isolating some bound inearly an sch wid held in the model

Raw says that it will be several years botch ulasabund impection can move out of the laboratory and into large scale commanual repeaters, ultrasound equipment being vars easien sive — rangerig hore \$12 000 to \$220,000 But he can lorease a city when yars sound sourheast wit recardly check tash for worms in lailwrite, restaurings and lailwrite, restaurings and lailwrite, restauring and barnes uitray. Rive tagt soonet or lailwr they't peoba soonet or lailwr they't peoba

"No watchesalt, no wnemy action had silenced the relative of new life in this stricken work? The prople had done it themselves." —Bertini Carno

"Webure uses as hitle us possible of skything" — Joha shap Kasey

GAS ATTACK FOR GALLSTONES

The network treatment for galactones are address and an gasoline to enhance octania. A decire at the Mayor Dans in Bochaster, Maneotok, treat a successfully used metry land on successfully used metry land on the successful address was product by address the patholess address was product by and patholess and address was an expendiation and for agreement purces.

In 72 cases the storeer desolved in 24 hours. The pulants went home in one to three claps and sport shoul a week recording. Su a week not to tappial and as week not to tappial and as week not to tappial and parkets of nocupation. The methy tertsolve for a methy tert-solv other which is it antibuy tert-solv other which is it antibuy tert-solve other which is its antibuy tert-solve other which is its antibus to make all.



Gismenogistories Hill or up with high octave

percent of galistones. The dremical treatment does not bissolve calcium galistones which account for the reterion 20 percent.

The new treatment, which is sweening-table Augurousi is sweening-table to be leved from other the table, can be the set of the treatment ing patient control to children and the time the the lever pate too much childrens affect the miles features affect the miles features affect the miles features affect the miles features affect the miles that the gas/blackers purperies affect in the from the time and the time the time affect and the features affect the miles features affect the miles the time and the time the time affect of the time the time the time the time the time tim

The trouble with burg similar is thet nobody a terre to appreciate it " --Footide P. Amer

Laziness is nothing more than the habit of resping balank you get bred

-Julius Menard



for they to the Wine of the United States of the Contract of

CONTINUUM



If you dig deep enough in bits Handbox you'r rean Unice—o'r ir least breces o'r china and other Asian arctacts

PIONEERIS UNDERFOOT

Charaktern al van moch is San Francosci bandmark as the Golden Gale Bodge Latte aktivenen, however about the people who ongereliv settied that perfol her dry have Benkeloy Casiforna, achaeologist Men Pastron finisk his moent discovery of child Christowns ongenal baldings reveals how the unsurg Chrease ponema lived

Postory, who heads Archers-Fek an and weakagcal consulting firm was asked to investigate a down town ate in Sain francesca Interceal distinct to make sum no historic sites would be demigrad by the construction of a new building. After e. Out. diffing a series of holes he stude pay drift a Chrimes general store from the Gold Ruch ero. It's not a total surprese that we found a banding burned there. I he notes "But we never as peciate to find this quarty and quarter of surf.

More than 100 000 artlists—inclusing denial, romains of food in ceraimo vessels, toothurstee, copuritive already bean romoved from the alter and many from articlas can be search from the alter and many forms articlas can be search poling up from the dirt. Netlef-two percent of the first are bean but many are said proported in thy can easily be occonstructed.

portion of the store, about hait

DONATED ALLERGIE

Borns maintee donois can gree the gift of 185 to patients sufforing from texteens, applicatic merane, and comgarinal immune system debuerces. But researchers has consistent application fail donois can also give borne marrow transplant pateries according stas uses that depress.

Watern indexpets hard stepped in the adapted to be adapted in the excepted to be adapted in the local state of the Maccal Calego of Waterney and the Maccal State of the Maccal Calego of Waterney and the Maccal State of the test of the macro state of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the maccal state of the test of the test of the test of the maccal state of the test of the test of the test of the maccal state of the test of the test of the test of the maccal state of the test of the test of the test of the maccal state of the test of the test of the test of the test of the maccal state of the test of the test of the test of the test of the maccal state of the test of nickel. His donor had a contact allergy to ywelry contact allergy to ywelry.

But takin was pood nows for two allenge patients who had neareau house mairow from nonallergic donors. Whough they host poolse plant," Honderson reports after a year they had for there allenge reactivity."

Lonin departies a sea me procession procession held a unit and operating by destroying book in the resource and chemical search destroying book in the resource and chemical search work of the procession of the develops in the search that develops in the means with resource and characterized for search the developing for search developing in the developing for search the developin



nothing to science all

case—as well as intradier normal immututy. So I minot surprised that allergies or a lack of allergies, can also be transfamed."

Hoters is long bore matter introducts a do of accump allegant form a done smorter was a annuprova to way for a potential prova to way for a potential course usure poste do do do the state of the state of the mosperate all potential models. The mosperate all potential the model and was an accumptantly were we feel they can safety mark and we are constraintly and making on antibotical luminetations. The dover was dengine to practice whether a mark and the statestical luminetation was the other of the mark potential the statestical luminetation and the statestical



All those task remarkes reskriftsandrag, two respiratopatis at Walker Powol Army Moducal Centre in Washingtrans. DC, think they may have acrim up with a calls for hockape-ait least for some papels. It is in togradied blocker, which indicate all count steepolene by tensues in the brain. Nitralgane is now commonly upged to teal. Inspirate headsches and control high Block pressure.

Inis drug reppositeleve five of seven chronic hicroso pers studied by David G Lipps and Bahman Jabban That's a small test group which they hope to expand



A statut convertine when equities are given a choice shey prefer the spic wile of the scice 3.49 are willing to take metters into their own hoover, without any horsing around

one day But as Jabban says these are not people you meat awary day They hicoup day in and day out for weeks or modes.

It is Abbanis theory that calible in blockbanis theory that calible in blockbanis they only the second that they they appeared the depringen the space shot the depringent the depringent depr

HORSES

These your registry with 1 and these your registry of the of your internal sloops with the light on Houses studied at Correll University registery binned on light in it dark both when given the chance anyo, Correll Vestmanare registry of the sloop of the power of the sloop of the power is the sloop of the power is the power the

a windowless bern and arranged the lights as the bornes could two them on for aminute by passing through the beam of a photoelec this cell. The horses quickly learned the trick and welched the lights on at all hours of day and right

Hough 6 not surplised Columpsity Annex makked to live outdoors, where the moore and stars make rights mach brighter them in a dark beam. She adds, "Some horses display claudisphobac behavior as well and previding some light seams to before tonive their welnes — ----AB facts.

"Hemember that the most beautiful things in the world are the most useless peepocks and Nee, for mitunce."

-John Buskin

CONTINUUM

WDEO RÉSUMÉS

A standard pended elsum suggests little if anything about how a job candidate take acts and tools fluc now there is a video resume playte the chance to some up the person before the interview briese player.

Advantages? An employe can judge how well personsities will mash before subpacting himself or the applicant to the pressure of a face to face interview Just pap the video resume into a VDR

It's who advertagecus for the job service. Place in it's sumes schem you out. Video resumes get you schemes di president of Res A Vue a we or marketer. You can really out you have boot forward no intemptone no enrice blowing in your face.

Video résimés nu about les mautes and cast from soviait humanod to several trousend doilers. To prepare one a ub availer telle about his sibilites and amotions before a studio camera. The sign at then added, comparis with on screan titles and beckarmant mean.

The volan resume can be used to its started exists that right seem unimpressive on paper. For exempts is it turning paper for exempts is its unimage model to be performed mages which he performed mages models it was short on location all extund the oparity. The cost \$12,000 in windher instance is scientist cut to land a prompton give is indo to the bost to prove the isoto to the bost to prove the



Nor a year line? Nor prospective boas may quest-ov your date micry by pagoing your mount into the VCR

was management material Says Lass Chrosensen a public relations executive who recently found a job by using a value observe. "Enployers got to meet you will out actually meeting you four actually meeting you four actually meeting you four actually meeting you four actually meeting actual four actually meeting you will out actually meeting actual to the second cases "--Robert Brook"

TV-chewing gum for the year

—Fisarik Lloyd Woght

T'S A MAD, MAD

Introduce ind the episous behaviors before it on costiliating, and some pay hearing with all a matter of genes and reurchernces. But the net resuch some people act in bosome before, a new theory clarms before a most hear occurs to do so. And the rewards may be figh

Take for example the case of the women which choose of the women which choose choose of the women which choose and the second second second second whet experisions are the second second second second the fore the second second second the fore the second docts, the second second second docts the second seco

Tindividualis choces busine behavior when they have no other means of coping with unbreatable stress " says Partie, who teaches at Weahington University in St. Louis and at Barre Ban University In fisted -The result is that the individual alevates stress by engaging his siterior distribution - Role discusses his psychobizomenes theory is a new book called Repression and Fear. New Ap properties to Resolve the Chw or benchmarked.

Tably bitrarie bahavier is rone. Role asserts and also landamentality different from more accenter from dense of spong to the dense of spong to the dense of spong to have dense of spong to have dense of spong to have the spong to a children interform the batter recognise the need for the bacter of sympotaries, these offers tools to cope with the critical section.

Bote vows the beforear typical of scheephenes as the most advance example of psychothosemenes, foll toward closely by appropriotes (the fair of going cut any where), obsessive-comput size disordies and multiple personally

Usably people who choose burners brishwar consister the monetary factors. Pole adds a drag factors. Pole adds and the case of a social contract and second energy fits home—course the option and some work. Physichobazareness theory thus explores why agrouph to be uncommon in meri. Role technics its surphy to ac cash to afford being house to afford being house to afford being house to add to being house to be t

"Medicine, the only profession thef labours measurefy to cleating-the reason for its distance."

THES

TO BOLDLY GO WHERE NO MAN HAS GONE BEFORE.

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Franklin Conter, Penneylvenie 19051.



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ARTICLE Anth Burgess, Book your other g passage new writers a and travel too with Joseph the top ur Heller, con Paul Theroux, of tomor





"All ches are med but the mechans is galant. All ches are beauty is grim," wrote Christopher Morley, All ches evolus similar foalings excloment, ambruskerba, wonder, a high that

der, a high this corres free an umy certradicionis, ansacrement al why the color streng were approved to the strength of the second strength of the strength of them, logaret character balance, latter local begans with outstretched paper local begans with the stretched balance antopage participation and parts paper local begans with the stretched balance antopage parts with the stretched balance

mittes, paraolis, ratio, thise-pilote suits, skaleboarders, occarts, bocycles We've heard manychre productions that our oftes are in the thross of death, dyng—from overcowaling, traffic, smog, crack, polarison, lack of money for basic







Today's cities face the from for ris London, as seen from the (Incl Hong Ko

50 and 51, eckwise



services. Yet as we near the year 2000 so the experts tell us, more of us are going to head for urban areas: Nearly 75 per-

cent of the world's population will live in office by the turn of the century. celles by the turn of the century, Wills that during prospect in milds, Own's occenturing prospect in milds, Device occenturing of the turn of the Authority Burgerss, and Manuel Puly among them-about the future of our planets obset. What will like be like in 50 years? Not al, however, chose to dwell on future planets. What will like be like in 50 million and particular the out of the million of the second second second second second on future the second second second second on future the second second second second on the second second second second second on the second doscribe the glory of past eras or dwell on the present. Octavio Pluz and a poerte "I speak of the city built by the dead ..., the of the state of th moorni tribes that camp in empty lots of the moon in the television antenness

of the longed-fice encounter with that unexpected formwith which the unknown is made flosh."

Why talk to writers? Why not interview chy planess, architects, mayors? "Whi-ers," Amm Baraka (LeRoi Jones) once asad, "are the aniennee of the mos." Whiers in every sgs have been fasonated with

office, alterno in them a reflection of the lated "values and ways of the As you explace these wasty different ches-from Berlin to Moscow to Chicago - enjoy the earbly cees, and while you're there, m-

Brenn The list hine that everyone nohere in entering Dearer and the has been true since about the year 2015-re-(Kilo Cherg) It entrety surrounds the oily No one gets into the city without permission, a so-called priltens pass or resi squere leach side is 14 miles long), was built effect a remost of cleventation famines. if China and the subsequent rifks of people to the capital. For a while Bering portations-to the countryside which is Chongoing, a city of 30 million

Other sistone softs in Reards are the 60 foot water pumps, some shaped to resorticie dirum towers or pagodas. There lakes are gone. Kun Ming Lake in the northwest and Diacon Lake in the southeast are both carciers. Writer is available a suphernam Since everyone turns lau it in fact, faucats are always left open in

The best place to live in Beerro is the so-called Foteign Sector, which is suband-largest of al-Japanese it is ra-Certainly most of the banks are Japaanose and English. The presence of these tally put down by armed police.

Because of the foreigners who constr 87 parcent of the wealth), there is always food in Belling, always work, and lewer poor China. Ironically roost Chinese try cian entry to a barriers country Millions of Australia-but without money or influ-

City in 2009 it was rebuilt on a small scale souvenins, the interior of some of the casnos and restaurants, the clocor of the brothels in the Foreign Sector

The rest is an immensity of dusty buildings of uniform height (20 stories is the

RATING METRO

Providence 1985 - 5 13milion

· \$2 onto you an employance ride

NEW YDHK

1965 - 19 BS million 2000 - 2015 mil

· Penced in: Too many people live in

BYTONEY

1935 - 3.78 million: 1990-3.78 mil-

EUENCE AFIES

· So yours a will-respected story

make the builds.

'085-10.05 million 1990-20147 Int.

MOSCOW

1985-8.97 million, 1990-8.39 mil 10" 2030 - 10.11 million

-Harrison Selabury

985-378 million 1990-875 mil-

"Chain deal." If you've got a phone-

CHICAGO

2315-6.85 million: 1990-6.89 m4

replaced with Japanese ball-and gaias prividia. Bid a hominese wells over hom annotatis benn al how yas unchedning this the dry subscheme host a power outbiaked with outbinese as a power outbiaked with outbinese as a power outbiaked host. This is expecially presented anneys the millions of subsky presented anneys the millions of subsky presented anneys and the millions of long down y stimp in a stable data to be lowground. The senter append in the power can set the bar yet usedly in cotopower can set the bar yet usedly in cotopower can set the bar yet usedly in cotopower can set the power bar of the host of the place in complete devices.

These is a reavage excellenter should live in a Berge because it is so hand to other and part as hand to leave. It is an isolated of rakine property is an imporer shed country. And these are danpent-amount appropriate to basis method. Index mappings and a benefated basis, But Noconvergences and insigned, the layer operative country is allowed by a second performance of an appropriate to basis of the approximate period. The ready foregnets who count and are been where the method are basis of the second and period basis.

Relevation is the greet recreater: the numerous accollis charmed is the educator and language charmes which fill be Charese with a deare to leave Every Saturday them aim the leveled records torm—the week's wrongcloses killed in dolaw-ap with the builtet to the back of the node—the name and the carme of the votion spoken is a vote-ever.

It has not sarred in Beging for nime years --Paul Theroux

Here Keing. The city inter a long, sponthing provide an outline to some make to same a long. At one time Heng Keing give too the bocksate provide an outlit a vivie for Danse but when it no integer to take that rais. A segred growing The taxes which seemed more or loss intributes an bytim memore introdes now Dut the contaxy. Barrytes: Heng Keng is well and the growt magnet for Dimensi Lainer and memory westy cutchester Heng Keng, a stagnet backware

So Hong Kong is searching for an identity as a piece of pleasure for the international community a duty-free shop. a gambling place a place to est very well All the Western form of ant as prachada in Hang Kong its mose than wetter. China or Tawan III its decadence inong Kong is a meeting ground for antas: writers, producers from the East and West. A roll of happy conclusion —Jim Merris

Deviative Hang Kang, 2040 Architects and city planners are inclueining wate recentremine due to building skylampers when the welfer once was "Preventy leon top of Neweys and make on top of newsys in the top of the other to vehiculas and position for of the shapping image in indextallery fugs. The sking groups for however if plan sciences, up higher toter mote indextallers on undergreamin

This city serves as a model of how to deal with problems of overcookdrag, housing shortlages and everyopulation Architects have found ways of building houses achieves, offices, hougests on

Water is available for one hour in the morning and one hour in the evening. Some people never get water. In fact, faucets are tell open in hopes that water wit come out?

lend that would be considered usaless in any other part of the world. If the techrelogy is developed, you will see Hong Kong urban areas float on the seas or built on space platforms.

And they are great gentales. They gentale at the drop of a hat Win more exhering computarization, reveltads and more schedularity forms of gambling spring so A, the moment the mosthood is the only form of gambling thesis ethical and legal. The Hong Kore (schedularity the Antonia sind most expensive gambling lott in the world.

Here, Kerg is the center of the works likely and lightwisely. Chronis the center of the bath, you know and when you in the ford local you are in the value in the ford local you are in the value place one fairth. Here, Kerg ways is place of the there will explain the social you where is not hor benefit you that can refut them on the compliants socially when them on the compliants account when them on the compliants account when the there is the place of the social place the social the social social social you have an of hor benefit you that can refut the the the the social social social when the social the social social social with an the social the social social social social social on a disce where social social such to proerrments." Leave me bloody alone Everybody is excred everyone wants to be in business. People scham shout, pack it in make money. They live the life of Risky—Jerres Civel

Takyo The big locitions and work-science along Takyo Big reveal wave then the along Takyo Big reveal wave then the locities of the science and the science of the science of the science of the science of the taken in the science of the science of

The character of the Juprimese proper has charged JMM registrated have exoneuric growth in Japan many propio bogene aware that economic vectory is not the final human target. They looked to charlos restantional vector with propio the devines restantion vector with propio the great material competition and ethorizecation of the late twentienth century centered — Salay Komatau

Bydawy The chief antibiant of he world in 2009 is overlap usino. These are senphy iso many people and very containty becoming in contain perits of he world like Japan resulting in vato cubical upheaeies and resear impactors. The holicity of the fundam scale has been measuring because and the state of the state of head matter and the state of the state of the state of the state of the state weeklehnich three states and take

Surfary became bagies and bagies and bagies systemy however, has adapted to the burke with teas assume a standard to the burke with teas assume that iterating—an etablic month of the system of the standard standard standard in the workt bogh wery togh hady (what is write sough we call the page and the treewrite be and. The page and the treewrite be and. The page and the treewrite be and. The page and the standard standard standard standard standard of all will as county lists. Availables the charaterian standard standard standard standard adapted and the standard standard

Australia begen as a convect selflaminit, a durrigeng ground. The country was foundad in pien Them was great intelness. It wasn't glorous—no mit and honky no promiss of strends preved with gold no dream of a batter place to live but the country is still wild and magnithcent hardened earth jungles, chts, a cleant as red as blood blue trees pur ple detenoes nintows wilker theth client and process, and sease upon seas of seemingly importable flowers that need only a little namic bloom in absolute perfection — Calcion MCCLalough

Meason: (The start of lates in the blows) and the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start is the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates and the start of lates and the start and the start of lates a apportments, where you're gong to they a hort, wisk you wert her supper, whe you'ru gerng to go to bad with The rest of The day you are automatically latencycled fraugh these different manovem i recurs gin a thickent to more rest national gin a thickent to more rest national, as a thickent to more rest national, as a single to the you for that kend of staff Hombes sent 87 No hermand regas

A detailer with presentatory power all controls, imposing a pattern on the obyand an the file of the paped in the cabel for real constraints, index of the Soviet county, a next sector with patter, boxness, and obtinationed suit sectors with the solar however, one grant comtended the solar to the solar sector pattern by the pattern box of the solar county, a next sector with patter, boxmorbs. The grant matter of the pattern box of the solar to the solar solar ally type they patch in a substration of the solar to the solar solar box of the solar to the solar solar box of the solar to the solar to the solar solar to the solar to the solar box of the

National ethnic tonsions are a serious problem, and they encoursurg (Thi hard to say how this sake will examine table, bot it is goes too tay, the country could just blow up I don't think it will go that fair, but it could it could "Renso nothing people get some about, more stubborn, on light more about than rational differences.

-Hamson Salisbury



Moncow, Gottachev words the Scorel reform to grow than the Soviet Union will lock and feel different when the twentybachev prowd and the forces of history are on our side not on the arts of Marx way By the year 2000 the living starclarits of the Soviet matche and upper middle class in big oftes are going to be closer to that of the West. Gorbachev mey merchaily perupite hot-speed monosale connection Moscow with its suburbs. He may set up international trade centers. Eventually, perts of Moscow, doabout 20 percent of the population will even in log cabins around the cacumienence of the city -- Hechick Smith

Berlin. In the summer of 2041 the Society for the Preservation of Historical Berlin calls a conference on the late of the Perin Well. The Futurist factors of the So casist Party wants to raze the old monuaon while the conservative Ecological Party desires to preserve it. The Wall, they port out no longer dantes the city havpassageways each crowned on both sides with a letter of the Hebrew alphabet (a memorial tribute to the early twantiethcentury Jewish residents of Berlin), nor does it offerd by sheet unbess as it and the white surface with the world's snakes-emblems of the two nonmine. who once held each other at bay in this esolf The faculty of Berlin's renowned Akademe for some procession Suthe Wall on the grounds that it symbolizes the Wall, bowever most of them think you the sees swollen by the steady mehing of the polar ice caps. That is a wall worth taking about it is a feat of engineering myaling the pylamids, a quaranter of satisfy-at least from the new-for the itals, of which Berlin is one

When the old policial boundaries were closelyed in 2012. East and West Germark were though into each others arms and the residen did not skeys resumble an erthistice. Terrations gaine rise to wild fights, even mundles all over the country and especially in filtedin. The especifier of East-West hostiky Berliners still remember the Wolfarchstassensing of 2019, a bloody three-day battle between the residents of the tormesty "Eastern" dethol of Parkaw and the betrefly "Western" de hot of Wedding

By more Pleakave and Weidarg have brighten here differences and even their names. Their contributed avec in their definition and have became as link of living encor the patel. That's flegs ann here did behanned publics the agring tensions of a provintiant that have list in a concerne their standard that have been the according to the standard tension of the second tenter accord and gring divided Theorem the a being run by mischless, which these min and here week do not understand avoid the code from the second tension bevoid recognition.

Whit reven coops taxe of New York (tows set) holders and only a work more than of modern Bern The whole work do note provide the set of the set of the set of the provide the set of the set of the set of the provide the set of the set of the set of the hence and expected provide the set of the the new "spectrology of place nontice set of the set of

Les Argeles The family represensation to binger owns. These is optical for it Kichers as we knew item are to opger built in cause in heyrars to booked by the government, particularly surregistrical cares. Propise and normal indexes grade public later and particular instances. And thereis booking load weight only built and readed guide instances. And thereis booking load weight only built and readed guide instances. The surregister is the surregister of the back door to guid a perior of mag. — M FR. Parter

Para. The toty of split like taken to plane as capital of the twent-first conlary Faircals were haply responded toshow the The Modd ad adaptation and scores/ul expension in decisionators, presider any any second data and scores/ul expension in decisionators constructed to resident the durant, petical admensione of domanc contar of the new over

In the last decade of he twenter born bury and the early decades of the heatryline centry the knowledge industry became more and mise importent to kep reprint power. The French realized that inghi-bach missions were the director, of the tases and invested an exernicus amount of morewin tables powers from the obselescent old industries like elset in come. and training them too the new knowledge industries. The French workforce proved adaptable to change, more adaptable than their English or American counter parts. The Bitchmic Revolution flock hold in France better than the old Industrial Peedbloor did

The contrivition of content values may high isophicology that produced wild intraction to holograms need to the main terms in the Lower The French are strategies with two possibilities. Plans is an integration of the strategies of the commerce in the change. Even oblight commerce is to change. Even oblight commerce is to change. Even oblight commerce is the strategies and the planets to know about the labor about its all, the way nailweet of tableton a that its formed around that store of failhout of them holds to be availed.

Cites all over the clobe are desper

The whole world comes to Barlin to live, to play, to work, even to de—tounsts, mystics, artists, and students of the new psychology of global conflict resolution?

althy overcoverids, chapter, and come radian. Pare has become the model city down note and plannets come to Pare to learn how to manage a city and how to create a unified system that actually works. Its probably the test functioning city in the work. Analysis avera sprint of bolosopis, Para now actends to the Engleh Channel

The provide less and attracted of the franch site role (biotram fram town the franch site and a very sitewale, percelution and the second second second second to druch or even theirs about in any way. A to of there that are tables in America are tracted here to a planfalow, you and the United States second constants and the United States second deserts are the United States second they have diverse been and stocent in the public flor they don't atowmath to a function second to them.

As has been true of any established culture everybody knows the rules Social communication is intralized. They send each other excess that are musically comprehensible. This makes for itemendoes unity. Parotei from all accurat the world come to Paris to learn social codes. The mejotice sole of rhadiced contact mail rightly and leas creatively. A access like the United States is creatly and hear intermension but also before also creative.

There continues to be a ratical structure to French Rought Theware in Trelevistual like is movemen in methods of analysis, high structure there are a structure of inconcering dees and concept like social cashs during a like and an of dearrightupe for each other a kind of dearrightupe for arises Buil of casus in the althought the advance of the world because them a site instructure of the structure of the advance instructure of the structure of the each other and the structure of the structure of the structure as generates.

-Edmund White

London, right solutions justicities perdependent in the transmission of the solution of the solution of the transmission of the solution of solution of t

THE PAST

Beenes Area L chosen of a hut will be Denos Area in which life in the oil y becomes much like is was in its moment oil goory in the Thrates and Pothes. It sounds catary, liknow, to say in 50 years I want the oily to be like it was 50 years and, but what we had accompleted then in the oily was a maying in was for abeed then oil to be the interview.

Appendix was very the to then. The country expensity Baance Area, had great in a way fitt its population was legaly multile class. The osurity had a why, way high standard of leng And Benos Area was a moot democrotio city, Education from gasmar sched Insugh rollean was convinced, inte

 Sperierist, Interne Folies, Respans—ord servicente wirfold to gee (internet horn here countines We haat all knicht of mowen hom al over hew ordin not gas / Amortan hitme. For county is an insyme Bengman hitm service how any publicity and beares drown en all imiteritaria in 1651. Il was presented without any publicity and became the big success of the session. Bengmen was "bacowerd" with great account in Engin in the late "Fries"

The theater was given to use where the termines and year of so-first wind one at two Affair La Boala in Malar the Net In New York we have been been cloak in Malar the world. That sounds analy new board the world. That sounds analy new board was that Example on the malar analytical against a sound that would be the sound that the sound that would be provided for months, participant while reported while many that the Board of the sound that analytical table work happendia (barrowski).

After notwo business, responsing and boos data characteristic the only Norou we had the value models called, there were too and a characteristic too and proseness. The other bay restatuon meaded hours Base was a controllower base with rables weree you could gared called and base were you could gared base with rables weree you could gared called and base were you could gared of called and base to the too too the whole notif with your college, the selection which endful with your college, the selection setues of these bases in Barrow Area.

For the future I would work the errormous collective leving of har that well such a part of 8 of that the Buerce Aleo had a very very long rightle Nobody, fileernet wer wirt locker Bus people were studying and working like orazy. And wherever you could you would go to a bae, meet hends, and takand tak.

Buence Ares almost had the air of a socialist country 1 mean a social democsacy, a place where polycity is retremely rich nobody is extremely poor There was nos Ares was really a city for everybody. not set for an eithe Even though it was an tem of subways. We could prouiate # rabily and do business easily. The city Buenos Aires was called the Paris of South America, But Elete was a differonce Most of the beautil (things Barross almost all of the population it was a a city with lots of color, beautiful buildings. and houses, a city where you could walk happen to her. I love the Old World type 22 OMM

of human contact. Buenos Aires really wile a most peculiar place.

All the is gone Dur isonomy is a shambles A mintary powerment coated grants elema tett. I den't was how what is call. A full the pople must pay it back. The mesoids conduces the pay it back. The mesoids conduces the for a democracy to curve. Today if you course could work in the site of the democracy for the site of the democracy for the site of the site of the site of the site of the for the site of site of

But there was no hope of reconstituting the thred houses I had once lived in. There is something almost surgically deviastaling about the loss of one's physical past 9

Next even Tanwel Marchetes soft logarit is the line of a sampline to generic a the line of a sampline to the organic at the line of a sampline the ray of line account of the line of the line of point account of the line of the logarithm of the line of the line of the logarithm of the line of the line of the logarithm of the line of the line of the line of the line of the wall is need to any At the ord of the wall is need to are all wardhood the line of the l

In my laze teides laad. Heldi agan, A Belgion teisoon teismi raisadel on my estaurog to Manchatter end, under he oge of her cames, looking tein my past. The house in Manchetter where I was bon had Leing baan dierolaheid. The datrict of Noos Sido, where I had sport my childhood and addeescree. Isid hanted nice a green widemass as with bantes of the agreen widemass as with I southered beinuped into one microphane, the Prince of Wales spoke in another for a reconstituted Moss Side. But there was no hope of reconstituting the three houses I had lived in There is something almost surgically develating about the loss of antit physical ball

Change as Every Matalan was always a way as o water of the and we ell have to regard a matalant to be photographical and unseer hill when, can rapid grounds, ore is there in a the Mode Side pub network table to post out of when had become is Weel instain preserve. Wery good—accept instain preserve. Wery good—accept instain preserve. Wery good—accept beautif ab handle and become is Weel instain preserve. Wery good—accept beautif ab handle and more the banteries of the handle and more the banresen of the form work.

The cosmonolianers of the city used Jewish element was strong, so was the Winn and both lorged Manchester mig being a center of the arts particularly music Theold city was far from beautiful Here in the source of the second seco Free Tradio Holl or south in the Whitworth Art Gallery Much of the old architecture Itss own-the Lubwith beloci-ball the Town Hall remains to remaind us of the messy Neo Gothic that was a kind of retection of the metcantile mind. The progressive conscience sometimes samed in the gam city But it was primarily conperned with potton-the proud nickthe coast and turned Marcheder into a ten pocks read the slogan in the trams

gate is one of the most handsome shapping streets in Europe, But the more one solidities. The distinction is all in the peoele Macquears buit the octustral world. they are the creators as well as the trut. of international modernity. Manx and En-Manounian-wrongly predicted that the stought in abstractions, ignoring the Manchester's innovations have all been within the cacine of caro talean - onlyanes. sessible resorts for the workers, organzations promoting music (brass bands again of revolt. Mancumans have always been tough enough to accept oppreslife with the amonaes they made for themselves cricket at Old Traffinid the annual performance of The Messaria

We writers from Manchester have sharrefully neglected our city, though I contributioning the



ARTICLE BRAINSTORMS: THE WORLD'S TOP THINK TANKS PREDICT THE FUTURE

From robots to supersonic trains, from intelligent homes to computers that think. professional seers conjure the next 100 years

BY DOUGLAS STARR

teners. Finets of solicit local phy the singets havog in Bolivia. The poor swell fan others of Alaca to acocalyptic aze. An American-Soviet spaceship lands on Mars

To gather these mages Once rethe global Working from New York and Rome, Caro and Tokyo, our correspondobit is to speculate about the twenty-first century and beyond. For the most part the Club of Form, and the Foundation for in Kelar Sava, Istael Sometimis aspocally in Eastern Bloc and Third World combes these transid contensionals are comparings or powerrement bases. For incountery of the USSIR Academy of Sci more Christe sees haled from the Shargha Academy of Sciences And we Institute for Urbanism at the Control Uniworsty of Watercuela in Caracas and the

Our luturists' backgrounds are as di-

Passengers cross Europe in supersonic chalacts. We found political science and sopplogy professors, as well as business typons whose livelhoods depend

> ent for inclustralized Japan and impov developed rations talk about solaring into the twenty-field pertury Jelson style Trind World prophets envision a mire of overpopulation, powerty, and prime What's more some futurists and third larks provi to rosy futures, hoping in that way to on-Economic Cooperation in Tel Avv. which predicts a sates of fortunate outcomes #

machines will get smaller-some so small streams and travel through our bodies dearpwing disease pells. Computers will homes our businesses, and our schools No one predicted a nuclear war, certrace, Instead the us-versus-them world of the

vergent as the groups from which they United Status and the Soviet Linux will come Some are economiata some en- disappear in its place wil rise a new prcreate and some high-tech urban an der of imultipolarity' in which power is

PAINTINGS BY RUDOLE HAUSNER

Excerts from the United States and Japan talk about sparing into the next century Jetson-style. while prophets from Ethiopia and Peru envision a mive of overpopulation, powerty, and crime ?

tons. At the same time new schisms will eruct between the teve and the havedistressing-and persistent-prediction that we came across. It's scary to there, While a mnonty of humanity will live in a live in overcrowcled 1/thy ones lacking

Before diving into apoche predictoria the I Ching nor do they simply make up their ideas. Futurists follow established method called backcasting in which they possive a series of future scenarios, then metches today a developments is the one

Given the diversity of background opinion, and forecasting technique part a single united picture of what the workt will pecome instead we present for edle futures as envisioned in Benghok.

The global wew that follows is divised no aphi upermai tekts provin iven. energy, politics, demographics and mouting to each segment are lated imhelped to form

No. my son. Matau applied Such questions from his survey-old always

"But it does everything for us it weikes us in the morning. It has our tee ready by the time we get cressed it heats up the

The lights dimmed as the house responded to the unintended command. "Lights up," Matua seed. The appro-

brightened span

"Listen wy see " he said taking the boy gently by the shoulders. The fact that something moves does not make it has

"But if knows us " said the boy "It knows you all your tevoree movies. It reminds

puter and a person." Matsur recired 'A person is not programmed the a com puter A person does something be

Matsur emilod as he stapped onto her

UNITED STATES Computers and new Winckriws will be able to chance their vipending upon weather temperature, and surfacts Liphts will den automationly pliences will carry computer chips for

dimensional laser images will change the theory that balaxs need yellow and creat when they lost open they even and Computer-based monitoring systems will The twenty frat-pentury classroom with

resemble a high-tech transing center with generally come and go at their leigure behad whout our even asking Each engeging in sel-quarked study hands or thick they have mastered the material frey will son up for task and demonstrate their knowledge. If they pass, they will move on instead of age divisions.



chicken will be grouped by interest, aptitude, and achievement. Schools, open strag more fluidly will be open year-ound 12 hours per day—Deniel A Doyle. The Hoddon /httfluide. Indianapolis

Indeed classing encycloppeak. Arrive costs of the severit role ontray official social classing of the ontra official social classical and the one first income the adapted social mean term income the social social classical and the social social classical and social social social classical social social social classical social social social social in the social social social social social in the social produce social social social posterio social social social social social social social social posterio social social posterio social social posterio social social posterio social social social posterio social socia style---beit visual or aural---and bring information in a way that the user can best understand

Every American home will have a lightdentifies television — a tigh feat, digital television woole spacare are as class as those seen in Holywood motion possiss. Because the televisions will have compairs made them many will assist the units at the main information sources in the difference of the television of the television federations computer to control home televisions computer to control home reference factors.

EUROPE: In a new like pattern may people will begrute to work part-tem—angtime days a week—for more of the likes a motenation normalism. Here will be a growing tendency to alward proposed control with hereading percent more models of the work and control people models of the work and control people control with hereading percent more models. Of the work and control people control meter more people percent people and the second people people control meter more people people. For the second people people people temperature people peopl PACIFIC HIM II Japan Increasing poperty kill bala do shortnorng of the worksmit. Approve worksmit all ankvides most and substantial approximate ingrowment and with the Lamina. Farthy montose with the Lamina farthy montose with one the name of their kernes actes, agoint learns and their kernes the substantian action to an interface action and and action the substantian action and action the substantian action action action the substantian action action action action action action action action to action act

Despeciele passarge time will larry borate to and transform in Hawki hashali, haw will be more than the absolute impact a second that the function of the second that much less time of today for instance sating from span of today for instance sating from span time comparative bies four dyna, as oppaed to the tim-day pumpy it is today a residue pumpy will consorred

WHARTON'S THINK TANK

responses to characteristic points to de visito the object of comparisons, come Newton new photo (public) de unity by the Decard Courtery motors (or come apple: information press and point a company new paragraphic der point a company new paragraphic

Pertuga total ter operations to i enerry. In a social social and social social social social information work in the terment of the social social

Money to Versia to the neuron parts and financial territory or arrays to 38% control territory or arrays for 10% and 14% address and how the entrol parts (address and territory) entrol parts (address address address address territory) and to card with the receive territory in the second card, the territory address august internet demands in the line, have a particular to write present of moves LED will other years require a second of the present of the second of the present of the second of the

An example of the second secon

s go ding sond to Wearsenic on a 2% of Second School authors

microsel evolutions, control to the a rescale version with the part of ERE opticals. Associate in traditions used to the lineater of metal courses of control and management (not), may what were is the courter barriery of matching where a stress of control to matching where a stress of the matching where a stress of the what point callways a ware in traing accounting for using more in traling accounting for using more in traling accounting for using more in the match the magic pointy.

When the second a control of the second sec

about one tenth as much money as a Nohmona, deputy director for ship development and planning, tochroboy giamon Minutey of Eastanool. Bioro

Once voice input lectrology is per dore J. Gordon, The Futures Group, Gistonbury CJ

MACHINE OPEAMS

Ere Cherl Lawrence alood a lew huttapped at a keyboard and read the dis-DRY SECTORING ALL CLEAR

womed about Costable and Nelson. the Lawrence, two men and a fire-lighting robot. They had controlled the blaze, but yet. Burning timbers were collaportal

Dammit come on Lewence sec. as Responding to his command, the robot vehicle rundled arrid the fames its TRESSAGE SECTOR THREE TWO ADJUTS STA

Just then a robot appeared through the tardant chemicals in all directions Lights Entropy of rolled up to Lawrence and

Thank God.' said Lawrence A door opened in the car-size mechine and Nelson and Costabile walked out smiling

UNITED STATES By 2010 when comcardy amader tageness executives will so compact that it can be put into a headset complete with voice recoonition inogy and a high-stackton video dealiev This device will make it possible to obtain gobate deals from anywhere in the world As engineers begin to work on incomponent parts are small enough to machines indirecular engineers will rely on the same processes of molecular molecules to form molecular machines." move and join yet other molecules to form carrying them to safety 77 DMV

complex products such as tiny robot assemblerams full of gears, beenings and scoped power saws will cut away soar toenvironmental atena, solar powered naromechanisms will mimic photosynthesis, conting pation/chile (pod au of the pavement these devices can remove carbon closede from the atmos-

Scientists will build i neumi nefi compowerful computers can "think" only in In neural net computeral designers will

Microscopic power saws will out away scar tissue inside the human mina. Tiny solar- powered machines will mimic photosynthesis creating food out of sunlight, water, and air?

inking more aim to the structure of the can process laterally as humans do Such unmarried arcraft, and to respond to consultant' institute for Alternative Futares Theodore J Gordon chairman The turos: Marwe Option, Forecasting Inter-

In the eventy-first century robot teching from military technologies, robots will gain in mobility visual capability onhave tractorike treads or spicierlike legs They more weakly will make them

Electrolity-conducting class could be A related meterial could be used as a place topped stove (with a surface as smooth as Tertion) that changes color as it heats-Joseph Costes: J. / Costes ing Wastwiceon DC

EUROPE Apph-speetusi colvors will propel kewslers scross the contrient at speeds upwords of 200 miles an hour nearly curveless tracks. By the year 2000 don-Pans By 2050 the transit system will electromagnets suspend the train a few inches of the rais while rapidly pulsing tation will propel trans forward at hun-

Europe's car-choked cities will evertually ben automobiles within the dity inelectric cars. He'll enter the car, maert a credit pard in a slot for billing purposes. an professor meterosecan and the

PACIFIC RIM Inexpensive superconture will transmit, or "superconduct." expensive Computers packed with sumagnetic levitation frame will crisscross Japan marke vacuum turnets at supererror a cab a passencer will first insert indicate his destruction by pressing a computereed touch screen map The nevgele at high speeds around the only or countryside avoiding collisions by us waves-Yoshiharo Ayotara, president Rechnovaling, Tokya Dr. Shoenu Watan Ann. Reyo. Satiso Takazawa, Japan Foundation for Shipbuilding Advance-

Scientists will use magnetic levitation technology along the slopes of Mount Fas tary Technova Hic

Elevated sky trans, or monorals, will could rough the Thai ruly of Barokok fecturing plants in outlying areas. Ultmately the sky-train system will pave the way for inclusional and of Thailand

-Sart Sinsinha, economic counselor, Royal Thai Embassy, New York

MIDDLE EAST. This Anab world will lag in technological development because of high filteracy rates and a lack of taimed personnal — Mande El Mandya, Future des International, Rabert Momoco

Instell like other small, educated outtree, will adopt many First World bothnological developments for its own use. The country will includ includ in producing new anexy technological and electronic modulal apparent such as the 3-D Xray mechanism uned for CAT science —Baruch Ruz, Canter for Rectinological Analysis and Forecentry. Bit Aev University fill Aev

BOUTH AMERICA Due to the norness of the American countase will be weld a supervise on to batterholdsy—be manufaction of plant geness to produce manufacture of any supervised to the produce standard will and even upon produce standard will and even upon produce standard will and even uputs printing planta and even uputs on the plants and supervised the plants on the genesis subplants on the american --DACE (Stocp) AMERICA Allocan index them (Differ

hape of developing advanced technolo-

ges in the beenty-inst century Scientists histographic the continent lists money socriftic, facilities and gevernment suppert. The region suffers from a contening brain chain due to lack of opportunity for instrictuate and their lear of policital persecutor—Economic Corression for Africe Arbite Atabas, Etherola

"Technocal programs with challinge our morals and values: What do you say to progress in genetics, which is going to challinge our most functionarial values. What is a man?" What is a woman? What is threaded?" — "Asquee do Journeal Asociation internationale Functions. Pairs

VITAL LINKS

Congressional Record, October 14, 2003 Senator Abramson. The Chair recogrises the senaror from Maseuri

Sensor Turnen, Therk you Madam Chanworten I'm speeking on the mitter distantia tal 13-2031, de you know white dabated this bit for several weeks now Furthermore weve uploaded all the ineveral information mit the Nacional Hypartiset System, making it evaluate to news American at bonn

Voters who have followed this dobate on their Home Information Centers now know everything we glo. They've had at cess to all the control polis. They ve teen weleos depicting outcome of both yes and no votes. They we been able to conduct their own oconomic analyses of benefits and costs

Senator Abramson Are we ready for a vote, then?

Senator Thuman Td say so I yield to the dathropusihed senator from Kentucky Swinter Sanders Thank you New 1

you'll al watch your monitors you'll see the vote as it develops. Madam Charwormer, you're on

Senator Astromyton Therk you Fellow criszens' Our computers indicate that youre fully brefect on the issue so fill cut to the matter. Prese yota yes or no now Sonator Banders?

Senator Sanders: Duritally is showing a decided trend. With two percent of the tally, our computers predict a yes vote from 272 million, or 62 percent.

Sanator Truman What is the exect breakdown?

Sensition Senders: The full vote won't be in too another fon minutes. But projections show if will pass with both Mainstreamers and Bhriss. Also with the Bularworkers. If think we have a mandate.

Sension Absension Fine Its passion. The 2 1 million moon colonists are herewith declared citizens of the United States of America.

WORLD. Modern communications will give the evenings person much greater communications in





This stury is tern the Microwsia, an ituational loss into the wind the maked eye carrier are This was includes ten scientific assays accurposed by comprises proce of science differs.



PAINTING BY KEN JOUDREY I got to Hollywood around one-thety and started trying to check into the Riello

Sony we don't have any rooms. The girl behind the dask said. 'Were all booked up with some science thing.'

I'm with the science thing," I said. "Dr Ruth Baringer, I seerved a double."

There are a bunch of Republicans here too and a tour group from Finland. They told me when I started work here hat hey got all these move people, but the crivy one I we seen so fer was that givy who played the hered of that other givy in that one move. Youre not a move permovement?

"No." I said. "Th with the science thing Dr. Ruth Barriger."

"My nerves if fany, she said. Tim not achaely a hotel clork at al. I'm just working here to pay, for my transcendental poetare leasons. I'm seally a model-skabactross

"I'm a quantum physicist." Teach trying to get things back on track. "The name is Puth Bannoer"

She messed with the computer for a minute "I don't show a reservation for you."

"Maybe it's in Dr Mandazais name. Im sharing a room with her."

She messed with the computer some more. I don't show a reservation for har arbier. Are you sure you don't want the Disneytand Hotel? A lot of people get the two combated.

"I want the Riato, "I said: rummaging through my bag for my notebook. "I have a portimetron number W\$7420"

She typed it in "Are you Dr Gedenlien?" she asked

"Excuse me," an elderly man said-

"If be nght with you, "Tiflany told him "How long do you plan to stay with us, Dr Gedarker?" she asked me

"Excuse me," the man said, sounding despetiste. He had banky while har and a dazed expression, as if he had just been though a homfic expression and he had been trying to check in the Hallo

He watn't weating any socks 1 wondered rise was by Gedanien Dr Gedenier was his manimation 1 didacted to const him meeting. That misses his lock are on wavelen that diadet will wait year but 1 had read the text of it in the FGDP Journal and it had industry beemed to make asses, which is most than you can asy to most of upartiant thoory he was giving the keynote address this year, and have determined to hear it.

It wasn't Dr. Gedanken 'Ny name is Dr. Whedbes, "the elderly main said. "Hou gave me the wrong room."

All our rooms are pretty much the same. Tittary said. Except for how miny bada here have in them and soft."

"My toom has a person in it" he said "Dr Steeth From the University of Texas at Austin. She was changing hot colles." His har soemed to got wider as he spoke "She thereinth taxes a canalization."

And you said your name is Dr. Whedso OMN bee? Tiftary asked tooing with the computer once again. 'I' don't show a reservation for you."

Dr Whockee began to ony

Tiftery got cut a paper towel, word off the counter and turned back tome. May Theip you?" she said

Thursday, 7:30–9 rw. Opening Cenmones Dr. Helvard Ondho. University of Maryland at College Park, will speak on "Doubts Samounding the Helsenberg Unostianty Phropia" Baltoom

I finally got my soom at twe after Tiffany went off duty. Till then I sat around the lobby with Dr. Whistbae learning to Aboy Fields complian about Holivecol

What's wrong with Reprint? he and Wrong do we arways have to go to heade wrote places. Net Holywood? And St Louis last year wast's much better. The Institut Hare Pancard people last point of to see the arch and Busch Stadium.

Or Dinan
 sounded a lot like Dr Onofrio.
 I wondered
 I wondered
 I he might have undergone
 some strange
 transformation during his
 search for room
1282 and was now a woman

"Speaking at St. Louis" Dr. Takum said, "have you seen David yet?"

No Issud

"Oh really? she said "Lastyparat he arrual meeting you two were practically meeplatete. Moorright merchait rides and all

"What s on the programming lonight? I sand to Abrey

Devid was ust here. Dr. Tekum read He read to bel you he was going out to look at the stars in the adawalk

He stopped "Is that Dr Gedanker?" he asked, staring at the bont dask.

Iturned and looked. A short roundsh man with a mustache was trying to check in "No." I said. "That's Dr. Chefma" "On, yes." Abey said, consulting he program back. "Hes speaking longht at the opening operations. On the Hesenberg uncertainty principle. Are you gained?"

"I'm not sure, "I said, which was supposed to be a pike but Abey didn bloch "I must meet Dr. Godankan. He's just

gotten funding for a new project wondered what Dr. Gedanikans new

project was---I would have leved to work with him

"I'm hoping he II come to my workahop on the wonderful world of quertum physics." Abby social still wetruing the deak Amazingly enough Dr. One'rs issemted brawe gotten a key and was heading for the elevators. "I tinck has project hes scenathing to do with understanding quantum theory."

Well that let me out I didn't understand quantum theory at all I sometimes had a snooking suspicion robody elea did ether including Aboy Fields and that they ust weren't will be admit it.

Three is electron is porticle except in tech los were indicated except in tech los were indicated ancetonousli lie too were and interferee with held (or each other), and you can it way massaue and the soft protectly be caused the held soft protectly be caused in the held to the soft protect with any one site a Likesphere protection days and the soft be electron of soft and broadd gave a large held for all do can be made in speed of large formaactual and held gave.

Which eenerded mai, had promised to ad barken and gen he au toom number I admittaecomenandes too if vanted mach longer attach these left She was fying to Dener to speak at GU and than careful on the Glywood screetime tomerrow morring. I internative Aloge in the model of the killing rise how beautive Racee was in the writer and wer to call here.

"I day'l hwe a room yet," I said when she answered "Should I leave a message on your mechine, or do you want to give me your number in Derwor?"

"Never mind all that." Dariene said "Have you seen David yet?

To illustrate the parobients of the comout of view in-tradices DF Schrödinger imagines a call being pain with a show who appres of largent pains. In other of parent gain, allow deningstates which the call is a the only deningstates which the call is a the of the disper counter and bandwide which and the disper counter and bandwide which are narranged as Strong it is repossible in question markets and characteristic which the call and another the provided which we bench called an endpain and the call is a the called an endpain and the call is a the called an endpain and the called an endpain and the called at the called an endpain and the called an endpain and the called of the called an endpain and ca THE WORLD'S BEST KNIFE MAKER" CREATES

A VIKING MASTERPIECE.

WROUGHT OF TEMPERED STEEL 24 KARAT GOLD. STERUNG MUVER, HAND-NET CRYSTAL CABOCHONS.

Sid Ben, acknowledged the world's best knife maker and winner of the prestigious Beretta Award, captures the bold adventurous spirit of the ancient Norsemen.

Experience the power of THE VIKING KNIFE A supreme work of Viking art Wrought of tempered siect. Ablaze with gold and silver electrophile

The sculptured pormule portrays the Vising dragon The grip is elegantly crafted of simulated ivory and richly lavished with authentic Viking ornamentation. The serpentine designs on the blade guard are remainscent of the fellinge style.

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the locking hardwood and glass presentation case is included at no additional charge

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> Shown actual size of 15% in length

The Trankins Next Trankins Center, Person/vieta 19091

These enter are order for THE UNDAG INDER to be hashended of tempered steel electropiated in 24 kars gold and stering plot-and hand set who explot developes. The locking gives and handwood disploy comes to use at no addetional charge.

Tored seed to payment new When my knills is ready to be sent to use, 1 will be baland for a deposit of \$(9,50° and then for the balance is 9 open accetally intrafficients of \$(9,50° acch, after shapment Princip and action to: Plenar read by Detaber 51, 1989.

Signature_	doctored and other to an exchange
None	Name Cook.
Address.	

11445-25

box — From "The Wonderful World of Quantum Physics," a seminar presented at the ICQP Annual Meeting by A. Fields, Ph.D., University of Nebraska at Wahoo

I completely forget to warn Dartene about Tiftarry, the model-stash-ackess

What do you mean you're trying lo avoid David?" she had asked me at least finee times. 'Why would you do a stupid time like that?"

Because in St. Louis Lended up on a reveloat in the moonlight and don't make it blick until the conference was over

"Booause I want to attend the programming, I said the third time around "not a wax museum I am a middle-aged women

"And Daxid is a middle-aged man who, I might add, is absolutely charming in fact, he may be the last charming man left in the unwesse."

"Othermise for quarks." I said and hung up, feeling sinking until I remembered 1 hadn't told her about Trifwry I went back to the front date thinking mights Dr. On othois success signaled a change. Trifirey alsoid: "May I help you?" and left me standing there.

After a while I gave up and wort back to the red and gold agtas

"David was have sigan." Dr Takum said "He said to lef you he was going to the wax museum." "These are no wax museume in Re-

"What's the programming for longh?" I seld, taking Abey's program from time

There's a mover at swithinty and the opening carefformers in the beliroom and then some seminars."

Integrat the descriptions of the seminars There was one on the Josephran parcition. Electrons were able to scriet/low funnel intrugh an insulated bernet even though they adolt how pot a room whost direction in

"Two works in Bachie Abeysaid looking at his watch we'd already be chacked in and on our way to driver

Dr Onoho emerged from the elevator still carrying his tags. He came over and aaris down on the sofa pent to Abev

'Did they give you a norm with a semireked women in IP' Dr. Whetbee asked

" contributions Dr Ondetro sed "I couldn't find it." He boxed sacky at the key. They gave the 1282, but the room numbers only do up to 75."

T think III altend the seminar on chaos Taskd.

The most serious difficulty quantum thisay linear lodge or not the where the staten of measurement capability or the BHI paradox it is the lack of a paradigm Guarrige theory has no scritting model, no metaphor that properly delines if —Excerpt from Dr. Godanken's keynole stickess

I got fo my room at six, after a brief semistivelit the beliboy elasts actor who couldn't remember where he d stored my sufcase and unpacked.

My clatters, which had been permanent-proce all the way from MT underwort a complete wave function collegae the moment that I operaid my subcase, and come out looking like Schedungers amost clead call.

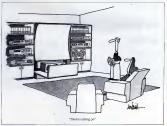
By the time I had called housekeeping for an iton, taken at bath, given up on the son, and elemented a chees in the shower. I had missed the "Mean with Muncheet" and was half an hour late for Dr. Onohosi contino enaries.

Lopened the door to the ballsom as galety as I could and slid inside Thad hoped they would be late geting started. but a man I dicht noognap was alwady introduong the speaker — and an inapretacts ball of us in the field.

I dived for the nearest chair and sati down

"Hi" David said "Tve been looking all over for you. Where were you?"

Not at the wexmuseum." I wheppend You should have been "he wheppend back. "It was great. They had John Wares thes and Tiltary the mode-stash-



actress with the brain of a pea-slastarrowbe"

"Shh" I seed

-the person we've all been waiting to heat Dr. Broost Dran."

What happened to Dr Onoho?

Shinty David seed.

Drive been and the Dr Orotho-Br Dran bondshi and multiched brown and the production of the second of the second second brown and the statement of the second second statement of the second second common serve all accepted research reacts adjacent de accepted research second second de accepted research must be desarred. A word with we autility take, have changed and it apments affinition of the apment before approximated.

She sounded just He Dr Ondero too He had green this same speech two years ago in Coornesk I wandered if he had undergene some strange transformation during his search for room 1282 and was now a woman.

"Batera I go on," Dr. Drnari said, "how many of you have already channeled?"

Newtonian physics had as its model the machine. The metaphox of the mechine with the internetiated parts, its parts and wheels, its causes and effects, was what made it possible to first about Newtonian physics—Except from Dr Gedrarkers biogrado address "You know we were in the wrong place" I hissed at David when we made it out to the lobby

When we stood up to leave, Dr. Driven had extended her pudgy hand in its reabole ettrped islewe and called out in a voce a lot like Charten Hestoria. "O unbelievers' Leave not for here only is realref."

Actually, channeling would explain a lot "Devid said, grinning.

"If the opening remaiks arent in the belicom, where are they?

"Beats me," he said. "Work to go see the Capital Records Building? It's shaped like a stack of records."

"I want to go to the opening remarks." "The beston on too binks out Half-

The bisiston of sop bines out no

I wont over to the front deak

Can I help you? the clerk behind the desk said "My name is Natale; and I'm an when when the second second

"Where is the ICOP meeting this evening?" I said

They re in the balroom

"It bet you didn't have any denter" Devid said "It buy you an ice creem one Then's the greet pice that has the ice cream one Ryen O'Neel bought for Takim in Paper Moon"

"A channelier a mathe ballroom." I told Natalie: "Thi looking for the KOP."

She fickled with the computer 'Tr

sony i dont show a reservation for them?"

How about Grauman's Chinese? David said "You wart reality? You wart Charton Heaton? You wart to see quantum theory in action?

He grabbed my hands "Come with ma, he sed serously

In St. Loais I had solvered a wavehancien collegen trick like where had happened to my clottea when I opprind the hat/way to New Chiane I this time. It happened again and the nore thing like will was walking around the coertinat of Sid Gearmins Chiane Thailes and any an los create core and trying to fit my feet in Mixrs Lork Solveritts.

She must have been a midget or had her foot bound as a child. So apperently, had Debber Reynolds. Dorothy Lamour, and Wallace Boary.

The only tootprints I came close to to ting were Donald Duck's

"I see this as a map of the morocosm." David sold, sweeping his hand over the sightly negular playersent of printed and sonod compet squares.

See there are all break hocks. We know somethings been here, and the pints are peetly much the same, only every once in a while youve got the "-he knot down and pointed to the print of John Wijnes clienched the -- and over here --he whiled bowed the box office contraction risks in



M CHAR



THE SHAPING OF THINGS TO COME DESIGNS BY NORMAN BELIGEDDES



his exclusive gimple of cars, boats mans, archites, freeway, restaurants, and offerboals years, arpsess, heavings, modularity, and child-conceived imply during the impovement of years from 1829 to 1909 – pays tribute to a max who cleavily level bayon in any Levery generaling Bankat only laced together by 12 time ther-ways continue his productions. Each elevated expressively and togo bypass serving an uset of elevated espressively and togo bypass serving an uset of elevated espressively and

PHOTOGRAPHS BY STEVEN PIERSOL

THE DESIGN FOR THE WHALELIKE, LOOD-FOOT-LONG OCEAN









THE ROADABLE FLYING SEDAN (ABOVE LEFT), FEATURING RETRACTABLE WINGS RIGHT: AN AMUSEMENT PARK RIDE REFLECTS FUTURISTIC FLAIR









The prophetic vision of an energetic young designer named Norman Bel Geddes durno the dorkest period of most of the industria) zed ubonary new society domrained by mobility inflorency budget hal his spersor Gen-

and independence Busiting leeped into a future we have only new begun to realize The most colore we assem-

habit for the 1939 New York Worki's Fer workers I With da row," the fair offered the perfect stace for the Geologica unfolding drama. Spending \$7 million (busting the \$2 million

eral Motors, had projected) the strong wid-hared reactor lar attraction, which consisted ways, towns and countryade contened hell a million mol-Futurarra embodied an independent sporety tiberated

by laborseving mechines and accessible modes of transdemonstrating how motorways-with remote-opgtendari traffic instinate safety purbs, and multiple lenes to accommodate high scentssurrounding areas. Pollution, atoms ecently light compahim and urban nariate wate all addressed head on as mevaluable posiblems created by a progressive tatare

disupar carper Bel Gesteler only of objects, ranging from uma and freeway flyovers. rance oven which he de

an wet as the Gestches's othe

IMERICAN CULTURE OVER THE LAST 50 YEARS HAS GNORED MANY OF BELIGFODES'S IDEAS



HAVEN'T WE COME UP WIT TOMATED ERFEWAYS FOR THE IDD-MILE-PER-HOUR



WHY OD DUR CARS SEEM SO CONSERVATIVE COMPARED TO HIS DWAMIC DESIGNS? WHY



SPEEDS THAT BEL GEDDES'S ELTURAMA EXHIBIT EMISIONED?





ALTHOUGH THE REVOLVING AERIAL Restaurant (Right) was designed

IN 1929, THE FIRST ONE WASN'T BUILT UNTIL 1962, FOR THE CENTLIEY 21



EXPOSITION HELD IN SEATTLE, LEFT: 1991 DESIGN FOR A TRAIN, ADVANCES

IN TRANSPORTATION DEMANDED CARS WITH FORMS RADICALLY DIFFERENT FROM COMMON DE SIGNS OF THE ERA

and Pites His larger process, however, wenn not donshu-toever, wenn not donshu-toever, wenn not donthe anaxi metauret assign the the anaxi metauret assign the postfori in Christigo disposition a seel aurminum, and glass structure – 25 sobreich highwhich would costas ellowly providing postform with as structure estimation and regional the same instactings. The fast asme instaant was actually built for the Century 21 Oppostor in Seatis in 1962.

More than any other futurist of his ers, Bel Geodes foresee the repact of advances. But intersponsions (Reped) is the cry of our eas, and gravity and speed as need the golds of the tomotrow which the Sections manaded forms matcailly determined for the set of the advances of the set of the set

 territio counts under a strucchi glass siterual. The skin of the algeneration that algeneration of the glasse-and restal algored with a glasse-and restal algored by rough weather. Much of the design was increascentral info Bei Gaedberfs plans for a privala 231-local spaceh commenhabiteratip was ever built Actiopating that implantes

 would eventually replace ocean liners Bel Geddes, di dorg with Germen aeronautical ergener Oto A. Kuhler, di despred an atemative lue. ury vehicle—the V waped Transcoarts Avriter The mannoth, inter-story-high tybrid of occasin liner and any plane wulki two accormodated more than 800 perget, with streament the store and well as a dime floor among well as a dime floor among ouri, liberty and better and besidy alongs As with the cars and basis, Bell Geddee was remeating at streagentistics from sociol.

And for such a vehicle, he magned a Rokey Arport in New York City harbor. The feating apport would be connected to Manhatan by an 800-foot turnel equipped with a moving sciences.

Intergenzation of the International Internat



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Because terms cells appear to be undenciary devices and of emanyanticolary indenciary and of emanyanticolary devices and of emanyanticolary devices and of emanyers and an emany set of the horses y and respected cross testimations and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the horses and the set of the set of the set of the set of the horses and the set of the set of the set of the horses and the set of

By using purified stem cole, doctars may be also used the application of aelities of transplants. Manow Revit and the set of transplants are transplant to the set of the set of the set of the maximum set of the set of the set of the maximum set of the set of the set of the maximum set of the maximum set of the maximum set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of the the set of t

Expert to the interaction IBM techneous appet they worth notates the number of processing performed in the market of processing begins as specific market will be called a state of another theogenetic technical begins and another theogenetic technical begins and benefit from them cachy and to be state and them the technical beam there the beam the begins of the technical beam the beam the begins of the technical beam there when the technical beam there beam there are the technical beam there the content of the technical beam there the technical technical beam there the content of the technical beam there technical technical beam there technical techni Registry Registry officials say they tope to increase their current donor pool of 33.000 to 100.000 within the next year enough to provide BMTs for an additional 3.000 patients each year

In the future DRA/stoys program term while conclusion a year ball down runs and year that down runs and year or the second second

BECOMING A DONOR

Becoming a bone many done is a bony mix-free ways to be a here. But it is not write-up autoendort or information makes, say Panae Meritoga, the Nameon, say Panae Meritoga, the Nadencists Prespective dones must be hereity addits under the same grant done centre ecupated to done any accessing from a blood semile respect properties dones in boorhithms respective properties about the same semicond and the respective properties and a respective properties and a respective properties and res

If the donor turns out to be a good nivin all posts of collecting the martow under local or spinal anoghesia. The surgeon makes a triving son above the doabout a leter of mixrow Because a certan errount of blood comes out with the pedure it is restored to them while they day, while the rest stay in the hospital ownershift. The risks to the donor are skotd FOut of 100,000 basity propie pre car to the anesthosia, while an even smaller orporton develop an infection at the side of the removal or experience additional blood loss I Draw readers who went to center should write to National Marrow Proect, Box CM, 100 South Roberts Stared St Paul MN 55117 DO



Inshed his first year as President, Congress had sat for the first amo, and the Subseme Court had heard ifs first crease

In the GM Word, a wrige event was strong the other country to come the finance fluxes and a strong relation to the strong of the strong strong strong strong the compary strong strong strong strong strong and bear mixed with counsil by 1941-1940 mixed based and bear mixed with the counsil by 1941-1940 based based and the strong strong strong strong based based and the strong strong strong strong based based and the strong strong strong strong based based and strong strong strong strong strong based based and strong strong strong strong strong based based and strong stro

At last welcome to the 1600 s. the 'Gay Number'. In the United States if were a time of world's tiese particularly in Chiogy, some and modern another the open ogy, some and modern another the the the twenties on only The 'State's world also an ear of flamboyert world's of Car Caster to I Another Carnegie and J. Porpert Morgan

For several two the time when most one physics ways bene Witham Refragen decovered X tags in 1985. Before the decovered X tags in 1985. Before the decovered X tags in 1985. Before the leader that was an experiment of the tags of the several the tags of the and magnetize was one u.d. If that decovers the tags decore, and Puthathold elocated nanocoder decore in 1900. When the tags of the tags of the several tags and the several tags and the tags of the universe. And Elevation we tags the universe of the tags of tags of the universe. And Elevation tags tags and the universe is the several tags of the tags of the tags of the universe is the tags of the universe is the tags of the universe is the tags of the tags of the tags of tags of

We do not really mean to give the endof the centry effect credit for the works of Stationgream and Beathoven or even for the French Revolution. Genus appears in as own time and if genusies we trid some way to explain sold, and so wat a parging as the French Revolution seems more the work of history shall than of the indextaliable who are! In motion

We pathops the daughter of the Bootboots makes the point. There will an initial when beatmospheric theory with the potenals for change, and works of genus or of madness have their boat channel for a listenally receiption. A dispersion function with the occurred when an egred rechary was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way to a new control was about to gree way the a new control was about to gree way to a new control was about to a new c

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the entrance to the Ferm Netional Accelerator Labo hark steel source a grant red and Symmetry, created by Robert R When, the lab s builder and first climator, possists of Tree siches looping upward to on one another but not quals. three arms are slightly offset. In fact, from almost every angle the soulpture is asymmetrical If, however, you abandon your car at the lab's

entrance, lie down directly bonish Sident Symmetry and cover two things one, that you and, two, that you have found

business at this odd place smosher Here scientists look very asymmetrical world Variety may be the spice of

PHOTOGRAPHS BY DENNIS MANARCHY

Looking for unbraken symmetry in the awesome energy of the super collider. physicists may find something else, says this Nobel laureate. something that could shake the underlying structure of physical reality



A few years ago, when I campaigned for the sx billion dollars for the superconducting super collider, I suggested that Brazil pay for it. The Brazilians already owed eighty-nine billion dollars. So wity not make it ninety-five? If the but to a high energy physical is an affect to a principle that's been with us price the Graeks. Simplicity is truth These physicals are looking for that one view that will everal the simplicity minitirical espance of mattal.

That search is filled with collection and beat the machine of internations to in search machine the parties rule of international to intermatch the parties rules a torring internation where adoptions rules of their happen annihilities on in black brack collectors with their prevention impaintering annihilities of prevention impaintering the their their test of a the source of the subjection rule togother appresent and international therein and appresent and international test of Save Their expression. The last run auch transported the source international 10,000 inflick degrees. Farmhat here and approprior the source international approprior the source international approprior the source of the third Barder.

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Ecacabid at City College in New York in the Portex. Lodermin Jook of Ethen years to sarve in Work War II balan for wenty where the sociaved his (Fh.D. in hybracs in 1651. This he saturd lot the near 32 years tooching experimenting and evertually source as balance of the university's Nove Laboration of the university's Nove Laboration of the page the call them formable to led pt . In hear droppens and parts of the failed the properties of the second s

Locational Biointogram and Schwartz Locational Biointogram and Schwartz was an experience of process of a second a confusion larget. The benefacture storage materials have also extend to the second to the second second second second the second second the second second to the second to th

Perhaps more important, the two dacovered a second type of neutrino, the muon neutrino. This meant that logions --- portility particles such as intertmit and meterize-material in plant. Electronia are pared with decition reachings muons are pared with mean methicities and sound. It was a gainer sale in the development of the "standard model," the convertione of modern physics. Today the standard model consults of 12 particular—axis quarks and six leptons—pared up in three contegrations of trables.

There you have it housands of yours of a scenerole all squared into a nail grid of 12 basis particles and three forces. Physicials, however, would like something even simpler—like one basis particle and one force. Unbroken symmetry That's where is determin comis is sigan the basis they even the two like yours of like power of the basis. Finitelia wanti encugli to stocke the standard model to the utilization of the casebandard model to the utilization of the support logic, the hybrid repeating the the caseterior of the support of the support of the public spectramon. If the support the public spectramon to the support of the public spectramon is pretended to the support of the support of the Respiration of the support interval and the support of the support of the Respiration of the support of the support of the Respiration of the support of the Respiration of the support couldre an expectation of the support couldre an expectation of the support support of the Respiration of the support could be an expected and the support the support of the Ladorman and the support of the respiration of the support the intervence with the support of the the support the intervence with the support of the support the intervence with the support of the support of the the support the intervence with the support of the support of the support the intervence with the support of the support of the support of the intervence with the support of the support of the support of the intervence with the support of the support of the support of the support of the intervence with the support of the support

The called Higgs and its the demon that conclusively tracks. The hearwards higgs have assume space to an orbit Allowing particles except the masses construction. If thereparaticle for Hausconstruction if thereparaticle for Hausconstruction. There is a manifered to the Higgs production. There is a manifered to the orbit of the source of manifered to the source of werk (source of the source to access the source of the source of the manifered to the source of the source of the masses of the source of the source of the head of the source of the source of the masses of the source of the source of the masses of the source of the source of the masses of the source of the source of the head of the the source of the source of the head of the the source of the source of the head of the the source of the source of the head of the source of the source of the source of the head of the the source of the source of the source of the head of the source of the source of the source of the head of the source of the source of the source of the head of the source of the source of the source of the source of the head of the source of the to see the informous Higgs boson, through which the field does in dirty work. That's the many pb of the super collider. If the super collider if nds the theoretical partcie, the standard model will unclubility be simplified. If it doesn't then te standard model will have to co.

Affording Lacentres (per la sander model is the local to could be stoy it even topics the super collect insuder topics). For except collect insuing an on-super local topic period. The collect is an exact the same the same indexembly particular is a local topic of the same than the poto, accordmatical exact frame that are completed in the same than the poto, accordmatical results has creatly been reacting framework. The terms of the same mode diffusion caption is an error Board Frame background in same candle and physical with saling a mamic candle of the same with saling a mamic candle of t

If the higgers's Lasterman will publicbly lobb a process conference, makes a few gilder, and explain why if the best porsible heng for physics. Lobbins a dense are legan—and often aposryphill. Crea numer has if hall he works a description of the super collider that any legit-school audier could lunchstand. Hor neworks if so that even here-theorether lineagen could uncelestand. If was a just that a nu-



mor. The New York Times reported thet Lederman technologies 40-fact and barner for his neutrino experiment out of technologies from the sectors.

Ledermini will dia anything to support learners induzing a 1979 appearance on the PHI Donshup show. Cheffengret by as to support of the S100 million part yain operating call of Formital the topics. A function million does doesn't part of the will be started be supported and the formation of the cheering gum will does will be supported and the support formation of the cheering gum will does mercan weaks. The did is how the commenced was. 'Double Your Pressur'?'

herd of buffels, and of buffels, and buffels, and register reactor scene of a reactor sce

Lealers at l'arrite a rever trort tord ware to bubbischer met de la terre au rucie desa Ludierme att fai soldias to bubbischer au de la terre au la construction de la construction por afferense. The accelerator fermionic la construction por la construction trate accelerator fermionic interest constructions and pages atternet tort the asserted and rever make many tables and tables and trates accelerator fermionic accelerator and the solution of the accelerator fermionic accelerator and accelerator and accelerator accelerator fermionic accelerator accelerator fermionic accelerator accelerator fermionic accelerator accelerator fermionic acceleratoria de accelerator accelerator fermionic acceleratoria acceleratoria fermionica acceleratoria accelerator militions, which is function through your active through your come home, you ton's after proteim of inteless diges and say. Himmern, a Subau: "that not unlike what high-energy physicato do for a bading level and in a Schmitters explains". What have cars colled at early the miles applies and in the physical and an and schmitter explains college these on a level of a scheme three schemes in the physical and an another the scheme explanation of the scheme three schemes and an another scheme three schemes and a scheme three schemes and another scheme scheme three schemes and an another scheme scheme three schemes and schemes

Ledemain gave up his search for subatomic particles in July of this year. Resoning as head of Fermisib, he will be There was lots of laughter during the intervew. When was he associated when was he just pulling our lepton? As usual, Lederman came out firing and got in the first word.—Dick Twiesi

Lederman. If this goes true to practice, you're going to sisk about Brazilian debr, short skirts, and Social Security.

Orear What are your feelings about the Brazilian national clab?

Ledenmail: A few years ago, when I compergreed for the six balan dollars needed for the superconducting super collect. I suggested that Brazil pay for it The Brazilians already owed eighty-me billion oblass. When not make it meter few?

Ome: Is thue hat you took apart the battleship Mis soom in order to build your neutrino defoot or back in 19607

Ladiaman Escapi t wasn't the Missouri. Scriebady recently told me the Missouri is still out there someplace. We've forpoten the name, but we cartainly del out up a battletile for sorges.

Ome: Association to Richert Croose and Chatter Marin who withit The Second Creation, a hatery of modsecond Creation, a hatery of modtern physics, yea bid them that war brite out and yea brite out and yea hat brite hat and a barrieship back. Lederman Nooco Lad that Wes.1 was probably joint Wes.1 was probably joint of that if there was a new war.







Vintage methode champenoise, since 1872.

 we disard to save the third back highline We disard to save the third back highline why it is be started and the same with all in these days it was started and the same started the same started back highline as a first same started back to back the same started we wend to third a with langthing as a filter the tool away the interpret and convect same started back to and convect same started and same started back to and the same started the same started back to and the same started the same started

Overv: But seriously: Dr Ledenman, you

said the super collider will cost six billion collars, and another three hundred million a year to operate. Will this trivity ba ensure the status or an ack ther?

Ledelman. We doubt it will make the cysrics, we doubt it shake one their That would enstamates the theorists. Their cover is that quarke always come in at least pars, and it's like a string that has two ends. Their sine way I can take one and home.

Offerer list) it unsetting that your modal of leadity is based on the quark, and despite spending billions of collars on atom anasthers, you still carif find the object on which your science is based? Leademan Well it's all who

Onex. Seriously entit a problem hal you rever ave your matrix?

Ledeman No no that you can handle Did you ever see Ronald Risagan when he was creacter??

Onni, I saw an image of him

Lederman What do you mean an maga? You saw an electron beem Look at the back of a TV set. You saw gives the ment wrest You saw Respar? My will decreate the number and as cond.

Orean' So everything is mindsuff? That charp, tocks, quarks, and peak-chirts are pail abstract charp with no independent existence in the physical world bocause as child command them. fetter/L2

Ledarman Oh, no There's a real world Let me motion it live Lids for sids. You These is harding register of the second seco

Other: But weating gasses in loss ab stract than blasting protons apart in an accreteator

Extrement List me tail you a didry about dialities. He bould increases of tetre copper And he dat serve of thousaind do suggestimate to boarn to board suggestimate. It have this little potant Heres Galleo with all in signalias sodarts. His looking out the window with is litissocie descriting when He sees and they're all scripting it down. Hawit a tee (Hi og out boarn the way and a site (Hi og out boarn the way and a



Iso had wer. Then they all get an therhomes or sequera and galacitistic field and look tilt het best close up concerning in a field of the second second second second and second by comparison from called and second by comparison to the second the mean class matching of the second second "I look draw these espendents on testtical galacities and the second second second and the second second second second and the second sec

Leterant: We believe in quaries be cause we set than in nocibility different ways. First, you do an exponent in Geness motivation of calibrain 0 you go or graphic set of the quark from boling at several time sharp bench provided and dispatchments but the result saper nimetally. These must be some hand of departments that the result saper nimetally. These must be some hand of departments that the result saper nimetally. These must be some hand of departments that the result saper nimetally. These must be some hand of departments that the result is the set operative many. But we frave to be ofpossibly relativations are commonly them the. Comparison of the set of the result is set of the department of the set of the result is set of the department of the set of the result is set of the department of the set of the result is set of the department of the set of the result is set of the department of the set of the result is set of the department of the set of the result is set of the department of the set of the result is set of the department of the result is set of the result is set of the set of the set of the result is set of the department of the result is set of the result is set of the department of the set of the result is set of the department of the result is set of the result is set of the department of the set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the department of the result is set of the result is set of the result is set of the department of the result is set of the result

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Only: Whelever the road is you get there by colliding?

Learning Yean, yoo cat here to coll save First alternor the genera pairs to be attract the guidance of the genera pairs up to the deside the there which we hardware preseque to post-off the there which and and the second the second the second the encounter and a second parameters for burge second the second term of the second mounter and and the second and and the second term of the second But the underlying themes goal in to way used in a the Greek and Democalate a compare world understandable? We Democritis and theme permethy or definition of the status of the democritism of the status of the status of the status of the particular time in the status of the particular time in the status of status

Lademan We wan't to both a super of a lader how at layer to be the second "The collectors we make all "memicsols". The collectors we make all "memicsols" the lader book and the second second second promesso lampledry. Board conditions way amptioned very host and the of host ones that in the copyring in weard was very amptioned very host and the of host of the copy and very host and the of host of the copyring in the work was record and the second of the the Greek correspt. But them is the work was finded come in Lowelers prometry and thread beam very with those completency. There are loss of messphores for the Arthin glass aphene filed with weler vapor at well high templatude has prediced symmetry poetect amplicity. But cool if Sconyou thin a leader look of well art the bothtion, unce cube feating in the poel, and where vapor above it. No symmetry amymore if you get high enough energy and understand the diggs phenomenon, the hidden symmetry then you'll get an brther that you can write of a t-both.

Ormati Right now we're not close enough to the Greek ideal. You have too quarks three different forms of matter, four diflevent forces.

Leferance The starcase model, with its as update and a steppin mediator by meets the large in every lefters in polarized to the every starcasm in the workshow to every starcasm in the workshow to the chemical pages holds of the model with raw works model and in a starting form. All the columns has senatic chemical pages holds of the model with raw works makes the model with raw works model and the chemical pages holds of the model with raw works in the model with raw works and the theory the page in the layers in the holds and the model model and the topping the starting and the topping of the model model works and the topping of the model model works and the topping of the model model works and the model works and the

Once it is not what you'd call simple Ledeman There are some oscillatorie in the search for simplicity Thales of Mile



tus arrounced that the world could be guessed water as the only element. Not a baci quess. Heat up a piece of metal and water comes out. Everyfang is made of water. These said But eventually, the Greeks clidnit like that and came up with the arearth-freweter throw Then came simplified to curie, and electrons. That the Sades we had a hundred and firsty particles it was phase and depression sus three. When we looked at those hunmede up of only three quarks. Okay so now there are six, and were not sure there and priving the way People and saving. Well twos inside quarks called proquarks. On beans sketching the standard model1. the strange the top and bottom. These are the aix monks. The aix leptons are and much neutrinos, tau and tau neutripicture explains all the data that have

Omni About Iwenty-four particles

Laderman, Yishi Wali, we have one popular the enriched gravy, and in the problem the enriched gravy, and in the long patient like enrich the set in scenario enrich and the set of the set of the set of the photox, as massives. I can't explain the photox, as massives in the set of the photox, as massives and the set of the photox, as massives and the set of the set of the set of the photox and the set of the photox and the photox and the photox and the set of the

Great Way will the new super collider be http://ree.micer.around? Why not http://our or wat/?

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EDEp option Discretion X. FDEP and is calificating while supplies law (increasion-which any constrained without protocols) and and not increased as

Adiós, amigo. O.J's crossed the border to Premium Black.

Salam, and Glashow said that there's a Seld that interacts with the Z's and W's the property that if you raise the temperstate you blow it every Three perticles running in heavy oil Hes sluggish He

Bacardi Premium Black One sip, and you'll know why

look different the week strong electromagnetic, and cravity. If we assign numone. The electromagnetic would be one weak is much smaller than that maybe minus throwning. Okay, so they all look tently different that if you get to a coweek and electromagnetic forces unify much higher energies we restore symmetry to the strong force and get socalled crand unitestion theory IGUTLFrgrevity pars in, and then all these forces We can draw a graph in which each of

arate line. The honzontal axes is tempermagnetic force sort of just cames on the can't make an accelerator that but But there's hope for progress in unflication

Onw Butthen a smost big enough good eroucti

Ledeman Wel you do what you can This Higgs field is also subject to quantum mechanics. Therefore the field im-

Orisel But while about the super collider s

Ledeman Ub ub ub shi (m cettoo there) If we can reach energies of one Titly, we know we can expose the Hipps mass if something new has to appear at one TeV So we must explore the one-TeV mass rance How do you do that? I we take lab, each one has one TeV Why can't we find the Hoce? The touble is that a pro-

carbace can And what produces the Henry periode a the opressure collpropluon or this quark with the antiquark. The constituents have much less or so So we adopted twenty TeV in each twenty-Tel/ protons needs an appelerator paracles in crokes. With this energy, we know that corrething has to give Some new phasics-Higgs or otherwset-has to appear at the super collider energy Orant. So this whole threa is about the

Lederman Right, but there are other weys to talk about the samer collider Take the size of the quark. The higher the energy goes the better you can beat on the ing up on the electron for a hundred years almost anywhere you look this one-Tel-

Onsw Why are the accelerators so beau-

seekno mechanis by nature beautiful

Loderman. They're not beautiful except at Fermine Here we make them basilesanse But most labs look like post of

Onen CERN is somewhat assistance Lederman Well CEPN yes but only the

Oney I'm taking about the machines of protons to about one million volte] is a

that everybody thinks is the most tantaslaw people design machines from an available point of very alliquich some do

Ottes, Ermon Ferm wanted to build an

Lodermany Yeah, but he wasn't motwind by arothing apaptic it was a whereacial ideal. As accelerators got bigoer and becor that would be the ulti-

totally distinguishable groups? Ledenman Not from a detance Nouhized to talk to them for a while Thereis a fuzzy as big as it price was. Fermi and INabel laurestel lackor Rabi were bodh experifreers a specialization. Very few theorola actually get their hends dirty and penmentalists can't add 1 always pack on But you need both. The theorists have been very valuable in shoong the starended has never been seen. We're look-

Lederment That will absolutely do every hand 1 And you start working on some alternation Theorie bases on monosoon right now because so far this pictures been noht. There's only this one guy [the top querk) messing and there are plauet But it's certainty possible that it

sent me a short story for Gmm. Ledenman And you rejected it. You seed

about a physicist whois multing over a row theory that we set the scentific work

Loderment. Physicialis ciet lots of ideals Most of them turn out not to be right. And other scientists-as not to think about it

bel prize-winner, ques to a party alteoded by another Nobel Isureate, and

gied the charamatic physicist after locky measurement on the atom. A student of Robin he would always be a student of Deep: This must drive you crazy You once Patch's Everyona collected around Rabi



Bacardi Premium Black, One sip, and you'll know why

INCOME AND AND IN FAILURE AND INCOMENTS IN THE ADDRESS INTERACT INCOMES 2014 INTO A 11 HOLD ADDRESS IN MICH. SMITH AS INTO

It don't make what he said, you were good expanded. Safet was a good who dat a good expanded in the safet of a safet he foor charge with Safet a la gonty where had indexed in Everyone rulends interaction of extended safet of the interaction of extended safet of the transport of the safet. I safet a model that safet a holder price Safet you also have a Nobel price Safet you also have a Nobel price Safet you also

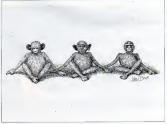
Orival is this insecurity at the core of all scientists?

Underwind from of such 16 all 90 a Cohe constant from of such 16 all 90 a Cohe press. There are a loss good. Form and any such are a loss good. Form and any such are all the good from any such for such any such and the good from any such and the such are all such any such any such any such as block grows any such as any such any such as block grows any such as any such any such as block grows any such as any such any such as block grows any such as any such any such as block grows any such as any such any such as block grows any such as any such any such as any such as any such as any such any such as any such a thing you seek or theil you wouldnit emberraise yoursall or way anything stupp. Owner, horytoos organ when you weer hint, you anytool or the stupp optimised or the visited who came has the order workshown in honce or your predecision. Public Hit Writism Through all the lectures and operation, indicated path and shall and instead their work to and anythin anything the shall be a Per-

Lackman Verifi, There had projected lackman Verifi, There had projected labor Ibbarr are and drawageare. The probability of the second labor of probability of the second labor second rate of the second labor second rate of the second labor conditional second labor conditional second labor and and constraining. There has were and and and second labor and and constraining labor has were redecided and the second labor redecided second labor redecided second labor redecided second laboration labor redecided second laboration laboration and and constraining laboration laboration redecided second laboration laboration redecided second laboration laboration redecided second laboration laboration redecide second laboration laboration laboration redecide second laboration laboration laboration redecide secon hard as we can These were there across bare to an one books on the best sole full beyear-by Bohard Fayman Steach a physical and the unit amended to a physical and the unit amended to across the sole of the sole of

Own: What is the worst thing going on in the country in terms of sciences?

Lederard: The surger words in 6 dress for starsharp posttimes are twenty industrial block dreng aware words in the surger of the surger label of the surger of the surger of the label the surger of the surger of the label the surger of the surger of the base to dreng a comparison and a story base to dreng a comparison and a story these to dreng a comparison and a story the surger of the surger base of the surger of the surger of the base of the surger of the words. The notices





BY MARVIN CETRON AND OWEN DAVIES

Need-to-know information for life in the twenty-first century

PHOTOGRAPH BY DAN WARKENTHIEN Coming attractions: medical miracles,

a shorter workweek, compulsory national service, and

a creater emphasis on the family?



The approach of the year 2000 can heady gournaded for containity call be a time of change. For some people the hum of the entity requested index, an end of current incubies, a time of reconsiders with nations and with nature For others it is a time to face the metable contained here a long and contains. And will obtain a space of our catternia what will obtain when the cortrag century sector works.

Rutivial Manan Carton, who decave the Asto of embage, Solderity in Poland and the fundamentalist revolution in Itam has calculated what detection tomorrow may take. Along with tomor Orm sensor addar Owen, Danese, Carton the organization of the year 2020. These teends, which focus primarily on the Umad States and range filter technologcal advances to earth in values will help you prepare for and cortrol your future.

Copyright & by Marwin Ciciton and Overt Davate Root the book American Reeastance. Duri Lido with Turn of the 21st Conlary Recorded through special assergement with 24 Markins Result. New York: To be puoliment in October 1840.

LONG-TERM SOCIETAL TRENDS

Life in the fast lens: Expect request costs is a care with how with superlast transportation for tergor conversion. In There may be a recession in 1960, but this will be only a perturbation. Duit tengs transport for the economy is global • Part of accests a diffuence redision • Part of accests a diffuence redision • Part of accests a diffuence redision endet accession or conversa, estemation of excession conditional in globality meet empower limitations.

 About half of all services recrises (4) percent of the labor locato by 2000 (40) to modeled in objecting, analyzing sint healang, aboutung sciency or entrue rig information as about 60 howledge - half of these people will opt for Temtime. Tareplace: analyzements which allow them to work at home communcating with them follow so computers.

 By 2001 nearly all college technoles and many high-school and juniorhigh books will come with computer clakes to ad in learning.

 Computers will provide access to all the card catalogs of all the i braries in the world by the late Ninetics

 Videodiscs will enhance books by providing visual and audio information and oven recordings of smells and tastes.

 Fewer very poor and very weating [will exist] in our society

 Fewer loopholes mean the weating will pay more tax.

 The Social Security system will be teformed. Some of the reforms will be means teering, taxelian of benefits, and cettings (attraction all workers will still have to contribute).

 Greatest development in suburbs (white than cheap) and a cheaper and road systems provide pool accessability.
 Suburbs first is being urbanized is satalian ones grow-datald the major metropolitan arros. Suburban "downtowna" are being created with the construction of office parks, shapping centers and entertainment districts.

 Creation of "perturbia," as population argands beyond the suburbs into outying towns and runs areas

 Superburbs' will connect ones in the South and West, where most of the population growth over the next decade is excertised to occur.

 Modular plassic housing will allow poople to move mere easily and inequently. High separative mere easily and inequently High separative committees of 500 miles Docupational mobility acounts allo pla- plan containing interin for more concerts Job mobility—ine - demanging location on Him build congring location on Him build congring location on constraining the same service and mere the demand and the same service before the

THE TECHNOLOGY TRENDS

Building a better Aduce Avaluation mappanens, holds and memory enhancing drugs are exectly accusable by 2020. Wundere commercial and see the 2020. Wundere commercial and see plas, and repairs of space elaboric components in otherwill be done by tobots - Computere and Bostome part of due en-

vicement rather than just tools we use for specific tasks. Portable computers will give us wretess access to data wherever we go inade our computer retwork - Superconduction in access.

 Superconductors operating at ocean temperature will be in use by 2001. Insubing in supercomputes the size of three pound order care, electric motors.
 Typerpert smaller and lighter than these today practical lighting that have been plants, electrical storage facilities with no beet lease analyzers that that the interaction of brain cells and 200 mph "magled" trains that florid on magnetic carbiners.

. There will be much growth in the en-

JOB TITLE	(1) GROWTH 1985-66 (1010/01)	NUMBER NEEDED (NT-CUSHER)	1995 STARTING SALARY (h THUSMES)	1995 MEDIAN SALARY IN THUSANS
Accountant or auditor	35	1047	17	25
Correctional reditation officer	36	103	12	25
Mechanical engineer	34	237	20	28
Becustored ourse	33	1302	14	20
Public mistors		131	12	32
Computenzed-tool programmer	32	200	12	20
Occupational therapist	31	-	15	22
Medical records Inchrecian	31	20	12	23

ginearing, technology, and health induslines, many new bolechnology jobs will open up.

 Highlischnological tumoveriste. All the technological isosylicidae we work with lookidy will represent only 1 percent of the isosylicidae that will be available in 2000.
 Wagazmees in the yeer 2001 will be an floppy date that allow the reader to internation play with and manipulate the information on the other IPC.

 Mass each will be more personalized as consumers use pay-per view letwision to select insvers and entertainment.
 Wevers will coveribed their choices from a "teldalivery" service, paying for the property when they also it is

 A computer system will create a personalized newspaper by logging onto newsnervoo databases at right selecting scores, laying them out, setting the headlines incloss that reflectible inscobance to the individual reader, and adding pictures.

 Major medical advances \$100 billion spent in genatic engineering by 2000 will result in

artifical blood (which could replace the nations blood banks)

burnan crowth borroom

memory recall drugs

newborns with particular disease im-

 Now computer based diagnostic tools will be poseding doctors with unsurperior distances and an end of the second and hard tasses inside the body, thus oliminating much exploratory surgery Brain call and lesses targitation will be in the opermental phase by 2001 to adultation of relateables and head hearts. Laboratory grown bare, muscle and blood cells will be used in translations.

TRENDS IN LABOR FORCE AND WORK

On the home front, More seamer will enter the workforce, increasing demends for job sharing and child care programs, personal computers become common hourshold appliances, allowring more employeed to work from home. There will be 125 million farmers in the United States in 2000 900,000 fewer than locksy

 By 2001 the percentage of labor labor in manufacturing will be 9.2, down from 8 percent in 1967 Productivity however, will have increased 500 percent in thisis industries that have become more automated, added robotos, and remained feedble in beir production.

 By 2000 we predict that 86 percent of the labor force will be working in the rewore rector. Of that 85 percent, 45 percent will be working in the information industry, 22 percent of which will be working at homa.

 Seventy percent of US homes will have computers in 2001, compared with 19 percent now, more than these fourths will be equipped to permit communication with the rubbic switched inthus/s.

 Renoral computers will be used for voting filing incometax returns applying for auto license plotes, and billing tasts such as college entrance evans and protessional accreditions.

 Five of the two fielded-growing cancers between new and 3001 will be computer related, with the demand for programmers and systems analysis growing by 70 percent.

. More women enter the labor force

 Increasing volume of work can be done at home expanding child care facilities? services and the economic need to have income from both secures

 Espect new demands for child care as approximately 63 percent of new entrans into the labor force between 1965 and 2000 are women

 Burnersson will solet to fit table shortapps with stay of home motivers by offer ing child-core programs and job sharing in the desires in the borth sale in the botax and only Secretion more a smaller number of young people entering the pib market tooly the number of jobs is increasing, creating entry-level labor bortlages expected is increase in the Nameter, sepacatly in the service soctes. pb opportunities for high-school gradusies as comparises tain them on the job. • The Army and Navy has seen the obtacation levels of recursts drop and comparition from the preview according to them from the preview according to them. Floates are may be to the obtations of the school of the school of the preview and chinese isoftware to preven and chinese isoftware to accord to the school of the school of the prevention.

MANAGEMENT TRENDS

Be year own boss Molde reactorment will be phased out in favor an herby termod presented Colpanial laddies to come stepping status to new careers - More and more micrower policiepunels will bacome antiophinium as they are squeezed out of the increvent pytemid in large companies. This is because in parameted, whereas in 1987 it was one perior to every 20

 More women are starting up small busnesses in a mass "homecoming," ilway are leaving insideoral plat to ga home, open up businesses and have children . By the year 2000 85 percent of the labor force will be working for firms amolivers driver than 200 opcorte.

EDUCATIONAL TRENDS

Back to school. Formal learning will continue throughout life out of receivally, with new tricthrologias and techniques characters the will we learn

 Het Nie of an eregnenen i knowledge the days a hav yaars innon yaars 800 percent of what he knows will be ont the corruption Because of Landenmenk drauges in the economy finite wil be lever we paying obsin to trag uring advanced timemig Close to 8 million pick will open up in the root decade in the injuly skilled occupations—executive, professional and lectrical

 Up to 4 percent of the labor force will be in job-retraining programs by the Nentees to upgade skills and innoviedge and keep pace with changing technologies and changing clamands of the workdate

 Schools will train both children and acture around the clock. The alcalame clay will be angebreed to seven hours for children acturts will be working in To-hour workweek and preparing for that next pb in the semanon hours.

 Job simulation stations (modules that combine computers wideodiscs, and instrumentation to duplicate job—work onsecond stational and the state of the state.)

 Education becomes more individualized as new media (interactive computer/videodisc) permit students to learn according to their needs and abilities

 Lackluster performance of U.S. students on standarckeed tests will prompt inevtable reforms

 In the most of this teach, there will be a sovere shortage of qualified teachers. As estimated 1 million new teachers will be needed between 1989 and 1993

burdened U.S. school system include 210 seven-hour days a year and cutting

. By 2001 there will not be enough adoactodis in a facienation, recluce faculty

. More and more businesses will con-

TRENDS IN VALUES AND CONCERNS

quality medical and social care for indi-

etwo-/we oftic-lamityethic

Family assess in the Newtons, knowledge health care, day care, early chichood education artidrug campaigns

Companies will be mouned to grant newborns and newly adopted children.

· Middle age will be 'm' by 2000 the 'you'n outure i will be 'out

 Name extremely evaluation of entremediate or the right will be unpopular. Moderates Republicans and conservative Demo-

· General expectations of high level of medical care

eight years

. By 2000 85 percent of doctors will be

 Theref will be more turses available for community-based health care salaries

· Medical costs will rise more slowly by 2000. Drug costs wil decrease 53 percarni of chuce will be generic

 There will be a succlus of 100-000 obvsicians by 2001. The result Doctors will pay closer attenden to individual patient. cam office traus will be estimated to evenings and weekends. Prescriptions will be written, transmitted, and Wed via

social service

Adequate Social Security monte if in-

deal bind deabled oppr mirm, and

· Compulsory retional service two years. male and lemate) is lively by 2000, with three options military service, VISTA-type work with the disadvantaged, or the

issues, but a real environmental push may

not occur until the Democrats return to 1 the Write House in 1996

the extraction rate of animals increases.

 Fusion teactors will appear after 2000. by 2020 they will be a major source of

· Power plants using only the energy of and fresh water for island communities. increase. The quality of incoor air the etfects of building meanless avbestos and

INSTITUTIONAL TRENDS

big constamentes and watching the

the expenditure of public resources.

. Companies will be judged on how they

· Government, intervention will supplant and services), fryancial services industry (instability and costs), electric utility in-

· With 5 percent of the world's population

 Two domentics air carrients todias control. smaller domestic carriers with only 20 percent By 2021 there will be only three

· Oursently there are 20 major automakers around the world, with market shakes saccing from 18.1 percent (GM) to 1.0. percent (BMW) By 2001 there will be only two giant automobile time: production taly and Latin America

. By 2000 there will be three meter con ware industry IBM, Digital and Apple A phenomenon of bimodal distribution of institutions is emerging. The big get bigget the small survive and the middlesized are sourcezed out

· Tortay the manufacturer often sells de

. The above bond extends to

rations and, at the opposite end walk-m

accounting-the tarmer making more than \$500,000 is fourishing the tamler who makes loss than \$100,000 is surviv-

. The storye trend leads us to believe that Ninetes DO



in place at the Johnson Space Center For instance, computers play a wtall tole puttoing of louid awaer's the the space stautiens external tuni trok and keep a watch for surprises such as a failure of any of the Me-support systems in the

This year a shuffe launches have been the most highly automated to date. Perscorel at Johnson ont assessment from the shuttle's main engines and other me-

Al Kennerky the Periode Mantendone Monitoring System (RMMS) caves the nowce engineer an opportunity to exstuttle on a monitor. The older computers are fed the same information on nears then all through the data to ensure

These new systems speed things up and add confidence." says Loutheed Tom Davis, manager of artificial intelligence at Kennedy Space Center, administ The capabilities of these machines are more extensive than the older systems." using software that enhances decision making," Davis says "The smart machors resemble turner thought once ceses ' But it will be many many years Davis cautions, before machines replace humans 'Wear petitics closer but the Hall

And today NASA is a long way from that homble January moming when the we were taulied for not looking ahead intrason. We tack temesida is bits about out long-term planning. Our critics want to know where we're comp. We are workmaking and shuttle fights. We will use these machines to maintain the quality of our work "

Chris Grats former director of the Johnson Space Center and ex director project through the Apolo ets. creators esensit using artificial intelligence as a cure-all for the agency's wees. Computers are only as good as the people are other things hampening NASA that gance ' Graft believes people no longer What they don't realize the says "is that stand that this work will pay dividencis in economy and technology DO

Are mysterious
 waves of UFO sightings triggere*
 by general public
 hysteria or by bona fide UFOs?*

ANTI×MATTER

What do 1898 1947 1952 and 1973 have in common? All were years when the world witnessed mysterous UED waves."

When LHCRogate der to every integration LHCRogate sports in a specific explaint LHCRogate sports in a specific explanation of the moughout IRSG and 185 and causes and 185 and 185 and causes and 185 and 185 and causes and 185 and 1



UFO UPDATE

eligibility and the second of the eligibility gameeng much publicity site if white explosive waves may be neissife to social lactore or even houses Builard concedes gradual UFD www.s. ane not. Even which these www.s. are hereby publicated, here's no discombile increase in discombile increase in discombile increase in

To make his point, duiland nocalis the pressit ULO wave of 1952. Even when publicity was generalled because of nopoint of UFOs near Washington's National Algorit his says agritings continued to amenge stoadily, without incollating.

counters in which they say they we been abducted by trey all-mouthest alleres with bullders evens.

But now indianal lockness Thermas E Bulland has gover locant UFO www.from 1956 to the present Bulland has clricitiat them with several groups for instance, he notes where undiant them with several groups for instance, he notes where IFO waves focus on a small geographic area with others are workholds. Scree waves tast for weeks and acree to month on wears.

As for as LPC/bigids are concerned however. Bilatory and are an epicony reporter biotuse here suggest hive many waves emage not here social hystem, as suggest control built was unalyzed here tabled to the biotuse here point builty have an any lead here tabled to the table of the social builty of the social procession of the social builty of the social procession of the social builty of the social builty of the social social builty of builty of the social to the builty of the social builty of the social builty of the social social builty of builty of the social builty of the social social builty of builty of the social builty of the social social builty of the social builty of the social social builty of the social builty of the social social builty of the social builty of the social social builty of the social builty of the social social builty of the social builty of the social social builty of the social builty of the social social builty of the social builty of the social social built of the social social builty of the social builty of the social social builty of the social builty of the social s Some technologists in related theories and bits: Io bait investig in Yosiach, bein snamps, way it stat, wereni access bitsters may controller to why one redee public zes them his accel tackets has one baits of the bitster of the his accel tackets has one his or bitster to LFG were an pretohis accel tackets has one his or bitster to LFG were as an pretohis accel tackets of the bitster bitster of the same tacket by other mety complex on any his orbitster.

Puzzi does bolieva, however, that Balandis work is important. It shows that simple social factors cannot explain these waves 'the pays' though when you're disating with mass behavior title is ever simple.



a de missional presentationen landaria a Doscones - Nooptel Vie have louard that yops advantation of the participation attypation of the annotation have a redistribution of theore as redistribution of theore that redistribution of theorem Selfware that see all the registrant Selfware that see all the

Though Benato emplasess the need for more workon odd applimatization to homself has funded in the construction of the strategies of the wrapped in well shock in a the work mild atting mores in found with shock in a differ from These individuals has shock were able to make the shock temperatures onough to dry the sheets in a left manuel.

Paul McCarthy

"The Essance of Existence" s Buddhahood"

T shink I could state for terminutes without blocking (



Jonn F. Nennedy a years in the What House was the quority dubbed Carrield by jointryless what have constrained takes between the young, washing proceeding within New comes wood from London based Survives Previop few work's Lip authority on royal insage that Karnooy may have been related to be real know Antwi

Accounting to Broke a Peer age publisher Hand Brocket Relear the publication has isotoxical and the Tourian learnin century castle of General the silication of the castle aste an Iton Age Tor tasky the aste of Carrolo Brocket Baser and Carrolo Brocket Baser and Carrolo Brocket Baser and Markes Income the castle had been react the asterna hagenof Brocket Baser age and Mart since the Social had been reached by the Social hitten reacy claim states arranged

If you accept the fact that, Arthor's Camolot was located at the Gastran Castle

CONTRACT OF A DESCRIPTION OF A DESCRIPTI

Yogo is often touted as 8 means of quading the mind and activelying a state of well being and enlighterment But oould the practice also in rease is purson is ability to loands cold?

To find out Dir W Selve muttey and her colesquere of the Defense Instatus of Physiology and Afliad Solerose in New Defen Inca put a gloup of 15 addensis on a period of oxer profile. A control group of 15 addensis on a sport the same amount of time on a deligi regimen of ordinary group prayed the same amount of the profile addensis the same amount of the profile addensis the same amount of the same amount did breatmade populations and intracticated. This exist craining cond physical child pull-ups and physical games. At the end of sectors toth unclair gloups were exposed to then traces of 5271 - cold

Burpraincy), the yopatraned subjects showed sayrefreetily less shop in ous terspondure, less inclusion in shorred later and less riternally than their trachtonally teactoped counterparts They wave quill samply homes at historian the cost

Daes mis make scientific sense? Yes, says Dr. Herbert Benson of Harvatd Medical School, who is also presiden



AUTI-MATTER

saya Boode Buker Them heres the possible of composition between Arthur and Arthuro Heres are booge interary down of Kender (cases). Boode -Never adde: is generativy though the 500 years ago mote design and a second and the 500 years ago mote design and a second and the Kendoy of the authority and second and Section and secondered to certaines and secondered to between and secondered to between

Books Baker admits Husroli wereyone agreee that. Cannoto Huser Disordand that in over occated at all fluit hor stay. Tim convinced that Nong Arthus wells a near periodi who ruled this siland Our discovery should enthin his har anose and that of President Konnicky for all hors. — Show Rear

VIDE OF MEMORY AND

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that furned the welchcraft writing constant 300 years are

A use opegie in Seitern mit cancer heiges of the height of the set is excluding the height of the set is excluding the internal because investigation of the set is the set of the mit of the set of the set of the height the set of the set of the height the set of t their sieler Sareh Citoyoo who surrived. Citoyoa e shown with her hand pomary of her accusers as her sieler fore their report.

T want the statue to make people think about the reality of the human tragesly that has boouned here. These wate accept people who were caught up in hysteria Setensks comments

Belows the vehicle can be enoted, however, dry officials must provide a site for it. And that have juit to occur: The response of the second and opposition from descendarias of those who pastcopedul in the witch halfs. "They have, they desirved Not the instructure birth basies of the Net Church m, Basim domas that cherge Vie a Unasez, if the results bistance im not opposed to witches at al. / he meals Tim not opposed to an ap poposate mouser i m ago poposate normality and poposate bosons he tit and to nerrod i through ofly council witchas rapid tion hears and other states and others Sharry Releve States States and States and

"In Gapsis greatest scenes we satisf to avail the people of the world" exactly at the moment when they first attained the date of "surfacing homasisk"."

Cavance Ferinoheth

ANTI-MATTER

Shanan Sundara

A runn deterred he was opening a checking account when two annext obbes burst into the bank. The deservises to waid the man feet competied to tell a finand about if the next means back if the next means about if show the the man was opening a checking account show the bank was rebad just as it had been in the deser-

Attants payohologie David Ryslack thmis tennis like this one show that people may be particularly open to psychic opponished is in their chears. Surreying 435 contraued that til m 12 had in fact expensioned partnornal chears immi thin hat of these chears, the says who proceed the

In Devents The Come Two Dedn's Doubled and The Come County Doubled and The Come of such of the Come of

Hybrack beneval that the ability to have psychic dreams can be encourage. Theple should write down their dreams and consider the possibility that what they dream might come to care. rue he says "If the dream perms to be a warning hey should do whatever they herk they should to prevent throm heapened

Bit University of California Barra Chic populations G. Wilen Donizidi aga Innovo Chica Sono Mon Markani California di Barra Chica Sono Mon di Barra Ne notes Twa contones And China Sono di Barra Ne notes Twa contones and China Sono di Barra Sono Mon Sono Mon Sono Mon Markani Sono Markani Markani Sono Markani Markani Sono Markani Marka

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Middledisch claims she has not only received messages from splits for the other side, but has even seen her grandmother's phost. L.



Life After Death Day will before simply statistical But our primary pair is to get people who have have near open requestions in sealars that they are not along all they are not along alo

Table conversion subject too perform the second segal second part of the second segal where Deeph Degin (within power widenose of the often death widenose of the often death where the second second second process and have magnet befolds, the notes, doesn't reake froze befolds the

For information on paraciballing in Life Alter Deeth Day call the Putricia Hayas School of Inner Servia Davel opment at (404) 492 2772.





have tood to make amends in my label, therein novel, Ary Chi Yoo Marchoster's talent—in drams, music, and fotoon—migrated booth Lordon in spith of the immerse differences in olive temporament, has always found in every to allanter, has always found in every to allwhen that best of Manchisaar but, only when that best of Manchisaar but, only when that best makes today, London wijl mick temporah

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At the bank of the million name, when you want to be able to drive them Shanbarg to be able to drive them Shanbarg to be determined in the second and the se

Menchester to meet Mancunans, the hercost, franchiest foreigners in the world -- Anthony Buccess

THE PRESENT

Hoop Koop, it is the preview place in the word for fourths, a lend of maganal for Amonan shappes as well as for Malays, Planna, and people kern all the preview of the Place. The gateway to Christ, Hoop Koop is sted well polead, well organized—a buckbearang place Nou go three to make many that's the purpose of the place an emporum for eventhing.

The world is looking toward what it opes as the immined meeting or cliefs between the Communit Stat and the calnalise Weat when Dena reclame Hong Kong in 1997 But it suit an its meminiti meeting its being pang on to a long lime Any nuing power in Chine has shariye nached the throne with bloody hends Hong Kong as mady to anything

 Manchester
 used to be Eurgpean before the concept of a united Europe existed, now, while all
 England prepares to join Europe Manchester has decided to become Assistic 9

Baidings are enormous now, but they tear down a building and put up a legen one. The hones from the Jaddwy Cab exercise on the roof, echoolichidine do as well, to save space. A building is smortcod over a three syste paired.

The way of this in Hong Kong will not be threatened in any statistical way either by liachrology or by the passing of time. Tochnological inventions come and go items come and go, percussion and politicaire placed expectations. Dut Hong Kong readents nexter put their tout in them. The only thing the people haut a the tamp! If you are part of a family, you are immorth.

I ve stready reserved my place at the Mandaan Hotal for July 1, 1997 The whole place is nearly booked up for the year — Lemms Clavall — Lemms Clavall

Tokyo Today the young people of Tokyo are very different form my generation There are more single people, more people namy taker and have tever childron These people belong to the new are that as not national but international They beliand taken al cable is as a fair distance. technology, telecommunications and computer technology taxel and transportation enrovation have opened the gate of a new era.

For the rate tase in the long history of the earth and the long history of hitmen beings, we been the problem of urbin contradien. A harmen being who warsho was a full has a harmen should keen an urben areas not in the well. The mouthmente like is anothed in urbine aross, with electricity wells supples, apartments, socurity electricity, these aross, at the opportunities to live a meaningful has—Seleve Kombou

Lages At present the only of Lapos a global unafficient, congested with testific and very overcrambled. Plaque at on logof one insoftent. People build in places without access reads or any utilities. Not they choose to come to Lapos because is an the neutral ansa is of diagony. The teach is clear: People congregation in diis, and intribupanting all over the world in oxidar to make urban the as owlead as possible we were

Ideally they insue to be a constant coming and party pickets of ty and wilogs, to be obtain to key well in a stry such and take a batt on a bucket. The fire batty will moderse some of the term aware of the life, approached it, and teed means of the life, approached it, and the structure of the structure of the means of the life, approached it and the means of the structure of the structure without head to be able to be and a structure without head to a difference of the structure of the without before and efforemeans.

nition that pressure must be taken off La-Recently the lederal capital was moved out of Lagos to Abula, a more central postion in Ninerra. This was an attempt to things in one small corner of the country But Lacon is very preedy it sucks in execution. The lidue nightman of Lagos is the stocgang of all movement. We vitually came to that port at the height of the so-called oil boom. There were so meny cars on the road that nothing helped to restore movement. There was a demend that cars with even-number and odd-number registrations should ply the roads on different days. People amoly up at four o'clock in the morning to be in the office of eacht. They re trapped in the heat and traffic it's something hereing most people, and it turns us into very strange beings. This's no life

We must get back to a city where testic moves where popple can even walk. People carrow walk integes though to a madman to try walking anywhere in La gos So we must create a city that is a numan obset. Those are not octavated. romantic dreame: they are the basic things that the villager takes for granted ---Chinus Achebe

Neeces I insured to Moscow in the synaps of 1988 to the first time in normal (4 years). There was a transmission of apply and insure the synaps of the synaps of the synaps instance, means, may be abalate, in the carama instance in the was instance, in make, in the handle, in the carama instance of they want backet the carama instance of they want backet the synaps the synaps of the synaps back way it to hard charged to physically and the carbon instance was made to be the carama instance was much the same to the synaps way much the same to backet down Kinatacheevel in the function down and a synaps was the same to back the synaps was the same to backet and the synaps was the backet backet and the same to the same to backet and the same to the same to backet and backet and backet and the same to backet and the same to the same to backet and backe

When I welfact the Insults Hold the first interaction I field was Probation I was obtained by the small of the disinterfactment and its similary easis, obtavation, and the same array I remembered the years ago I were updates inform for same array recent statistical address have about the same of a similar based of an error of a normal basis of a similar to fail the same obtain the same of a similar of balance.

in the grocety and most shorts in the oid Arbst, three was the standard liver potense, calculages, cacuthers, a few across, some groups groots correction is messaging the standard standard standard to calculate that dist backword in it. Yers, at best theywere standard group at the cacuther that standard and the same changes and because Soviet scorety is an excerned multi-conservative standard and the same because Soviet scorety the back is not verticeme thange, deplies band and schore an excercing the

These and staff popolan however that moderation as what powership is and about its net about fulling hinther boline classical ways and the staff of the modern hoteledge as the Soweth can compose and the staff to the staff of the modern hoteledge as the Soweth can compose and the staff to the staff to almost bogoing to the staff to the staff to all the staff to the staff to the many bogoing to the staff to the staff to all the staff to staff the staff to the the staff to staff the staff to the the staff to staff the staff to the body experiments the staff to the body experiment in the staff to the staff to staff the staff the staff to the body experiment the instance.

-Hednok Smith

Vestor Let Venos entri En yasti ton ingoti an rida or magi to survey the pressures of a modern word, especially of modern tournern Millons and millions of pool destry the weyr hege beauty that hey have come to see. Venos is an object faceon bus est to react the university pressures of tourism as fournam so to bus the set. thoughtlessily encouraged bolit by states and by the financeal community. The world is not it-epipped, melly to have such places as Venice inits charge Let it sink. If is a Got/given cry. I think God made the city and God should take it away.

Write here been very successful in developing tool flow conservations, cell now. What weature, and a dial up, observation of the second to be second second

 Paris's biggest commitment is to change After all, the very nature of tashion is that it is always changing, and French taste is formed around fashion, change, or fad.⁹

see it if only you can lind the moment of obtive stillness that will enable you to see it. Perhaps the answer will be to see it at rightime or claws

The service and the service of the service of the performs with the service of th

A symbole maneral of drange came scendywhen he ban hroses, ha galden horses of SI. Marks, were minoved and episacid by model ones, sham ones They dan't bak bait bat drosa you know how arini this soal hang, you make a momented oberget as occurred, the dby a no longer most it had given an thread to a no longer most it. Had given an thread to a no longer most it. Had given and with the soft in good onder to obser said at the saids. Poor dd Wanes — said. Metris Pass Today there are two Herman the matheme Pass of the French and a Pans composed of three large groups of immagrants backs from the Artifikies of toot Artical, Artibia transform Artifikies, and people from Volume and Chrim The Motort amaggant outside scharging the factor of herm from the article scharging the factor of herms from the article scharging the factor of herms between and Chrim Statistics where and the article scharging and written in Arabite of Chrimeia.

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The Spanish admission Reacto Bold cleagers buildings that may represent the future of Perskare acceleration in terms and the spanish sector and the spanish person and the spanish sector and the person and spanish sector and the spanish additional sector and the spanish sector and spanish calculates the spanish sector and spanish spanish sector and spanish sector and spanish calculates the spanish sector and spanish spanish sector and spanish span

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New York in the age of chatopon and Donald Transp, New Yorks the capital day of grood it is very hard but alighting detastor to inappon them. The city is of ways on the very of being from down and rebuilt in connection with the lated in the estable reference on the the there nothing to do with what surfaces or attailaor philosopheme would track in New York.

If lease mayor - a job i contrevent - or outstall affatts commissioner - a job i don't warf - a water be understand that the liteblood of New York, both commenality and creatively is intake. If is the arts that have brought people into New York, that have brought because to New York, that have brought be not either board to New York.

While New Yerk as group only for deel mathematical and an end of the set charge and a dependent of the set of

New Varial creative puces are being squeezed out by the facts of infectable space for artests. Real ensise grand has driven out the vary popple who have made New York what, it is if we work to keep the utility of New York, we have to make to a artists center in the Nutre Ard Lohnt see how workd hart us to drivene certain great www.if what is to drivene certain great we art who art by b places where entaits could be and work – Encer Jong artists could be and work – Encer Jong

New York: New York is a city of fail buildings and very low culture in which dress designers and interior deconform and the scool automotion of the accode they work. Economically New York City must contrue to degenerate and become manand more of a starm, which orchain clusters of high mass in which people live barly camped furine, and antical less. These set too mains oper and out much that can

In the age of chutzpah and Donald Trump, New York is the capital city of greed. It's very hard for anything idealistic to happen here: It's no place for attasts.

be dono for home as there is very life of a synker of present community. The life apprint of bread or community the life and increase, he norme with increases. These anisoty how many continues to anisot too many coast cases, not enough poterment of enough coasts, not enough present it will make is difference who is mayor or governmet. Petitody, New York City have subways been is consepod. This calora is new procernable

What might be done cannot be down in a tree except, and we are table about a low. York has all easil in the free sooutly that is democratic America I do not here a clerifocate yriomially couldn't the maans to annot its own docline. A society cannot menas democratic and all this same time become babilitation in experting is space or detabling to the rich

If a wereining office and a second se

but his money is not these and it work be have as the number of the imposeshed prolessing in New Yes, as early where each in the country these is a bohyying absence of compression. And it think these two things—the prolessing per ensuing into public validly and the lack of compression—are going to make of compression—are going to

Weiki all thus if thui if had to drove a dig to be n again. Methods well do be my het chose. Methods well do be my het chose. Methods well continue to david hangholf of the most cogapet. The oly, a curo the infractual opped to the oly a curo the infractual opped to the oly and the oly and

Cheogo Trily Juncta santad Honda is and attrim secto sectory porced in tentory, and attrim sectory bearing the tentory, in this oclar toxin, not a city of page line New York, Sin Transport, or september to the sectory of the sectory of tentory, and the sectory of the sectory of tentory, and the sectory of the sectory of tentory of the sectory of the sectory.

Chicago will be a starting point, a focal port tor the great uphoavals of the tutare when our economy is no longer industrylly based, and approvide later when the limits of a high technological sporety are recognized. Will these realters make for a deviator in the future? Will there be volunce will there be a decression? Sure 1 don't see how we can rivord if it we knep patin as we are Chicaco key of a typical American city If a amiconcorm of Americans' problems racsm class stuggle suburban tight, po-Inical and social alienation between radiust and dily Choago has been the dals disasters, including bitter labor disputers, gangelier wars, the 1968 Demoesate convention. Pertypes most of all Chicago is more threathcal than other daios, the Big Daddy of compt cities the ney and Edward G. Robinson Because for many of the problems liking office throughout the country

There is sumisfien to the reptrices the connect last down The discrepancy in Chicago between the haves and the house citic will become more avails because it is in any of hands not a city of house of the second second second second house, what will house allower. Forth house househouse as the architecture house househouse completing unnegred the point may successful unnegred is going They's point in a sponceptime or build than - Busic Seried .

Les Argeite. Willem Inem Transport wordter Californe norto much selected of the Lineon set is an image valen has acceded from characteria to positive acceded from characteria to positive characteria accedent accedent accedent construction. The market is positive condition of them applies the temperature backases is californer from marketing that les marky not the allow warmand the less marky not the allow warmand accedent the head of the less that has a first backase from the head of the analysis of the back of the less that has a first a first back of the less that has a first

Los Arappies no larger regards todi as the second city in the coative, the claim of Los Angulates to be coaseau with homps and the coating of the coating of the Angulas and Hollywood. There have been to subject of the moves - in LA. Each second the moves mogulais all with backs second the moves mogulais and the backs second the moves mogulais and the backs and on moves mogulais. All the backs have obtained the approximation of the the Angula model of the approximation of the theory of model of Annotas Annage model of moves and the Annatos Annage of the total the account of the approximation of the Annatos and the Annatos Annage of the Annatos and the Annatos Annage of the Annatos and the Annatos Annage of the Annatos Annage of the Annatos Annatos Annage of the Annatos Annage of the Annatos and the Annatos Annatos Annage of the Annasos Annage of the Annatos Annage of the Annasos Annasos Annage of the Annasos Annasos Annage of the Annasos Annasos

Prescript, the city the basin only the part of the city that people think of a Los Angeles, has no noom to expand. There are no open spaces but the city grows and will common to grow. Los other of es. Los Angeles is becoming high roso to death, which is said. If no high group to stop Downtown LA is a histographoge of med contro UII of box butients.

Los Argueis so nol les Nell'Yok, act tata largari bassana d'ha camaa Lila in cites, l'hmis sa vivey à actalo by her d'inde Pagle from the East campion frat Califerna doach have soaators. Bus opcalgins assants in the large larger of the samp sasant in the same side of the samp sasant in the samp side of the samp side samp side of the samp side of on possibility of a catecylveric tember hat can destroy half the oily. Psychologually, hnowing you at an tappol a base of uall-D does not make for a great sensed of montainey, of this catestrophic montainty operations of the elemental forces of the other surface for a contraction to the elemental of attempts of a contration is unaquel for a contractioned.

-John Gregory Dunne

Los Angeles, Los Angeles worrt exist by the middle of the next contury. Its doorned, and im pony to say that, beclasse it wise baseful country, when the Kenya, with roling hits, and Mount Baky silways with a little strowomit, in the back opcond. And very care an

Unfortunately there's really nothing to do it no longer matters how much potation from automobile exhaust is controlled. The geographical inversion, like a lengup is pleared upped down over LA. The stroot really is involven no--play.

Cons Angeles won't exist by the middle of the next Contury. It's doorned, and I'm sorry to say that, because it was beautiful country, rather We Kenya, with very pure ar 9

mustral-colored, brewnish gray, which just settles in and deterit move. Children nover sin its bindle Elavy person, every automobile adds to it. There is nothing to do it is to be law. Thick the add to breather, los Angeles is not a city, it's not an entry. If an occessor, a great context.

Before its and whether it comes van the light One--whether all block investors on this costal ---or chinevise people are by many service. They are monitory up or down the costal's encough the proop, but both between the Discost one of The anale experiment to see it people will move by their instance of using based or automobiles. It won't be associated to because an experiment to consider any association of the phase instance of using based or automobiles. It won't be associated to be

Artats and intelectuals arms in golar numbers and intelectuals and culturality is very gold in fact, cultural, tax Argolds is more like Pana, a place of grade ordsive incontent, a dealer of the start and the winderful, a dealer of the content where the is too good and too cheming and the winderful, a dealer world. And when people dream, they don't create in A people area divine to do something. People lies on that visit on their own rescretces. Them as becomes a change a Venterin "quarky stort (on Argues lies and near poper level of 1 of the to become appendent that it is live to date poper low detection of the change of the date poper and the program poper. They don't werk to understand a change of the date poper and the program poper the poper law of the program poper the appendent that it is ally to us on them appendent that the start of the program and them poper and the program poper the paper varies that the start poper and the paper varies of the start plane of the list appendent the start plane of the paper varies of the start plane of the paper be abact the only lateng them of the mean paper list of the paper.

Mexico City 1 Speak of the City "(for Elicit Wentberger)

I spaak of the city built by the dead, inhabited by their stem ghosts incled by their despote memory.

the only it talk to when I talk to notooly the only that dictates these incommac words.

I speak of towers, bridges, turnels, herears wooders and disasters

the abstract State and its concrete police the school/techers, jalens preachers,

the shops that have everything, where we spend everything; and it all turns to smoke.

the markets with their pytamids of fruit, the turn of the passons, the rides of beef henging from the hocks, the hile of spaces and the bases of bottles and preserves.

all of the favors and colors all the smalls and all the stull, the tude of volces---water metal wood, day---the busile, the happing and conriving as old as time.

I spask of the buildings of some and marble of comment glass and seel of the people in the lobbles and coorways, of the elevators that rese and fail like the mercury in thermometers.

of the banks and their boards of directors, of factories and their managers, of the workers and their incestucus machines.

I speak of the timeless parade of prosteuton through streets long as deare and boledain.

of the coming and going of cars, me rors of our analeties business passions (why? toward what? for what?).

of the hospitals that are always full, and where we always die slone,

Espeak of the helf-light of certain churches and the fickering candles at the allers.

the brind vorces with which the classolate talk to service and wrgms in a passionate failing language.

Experies of demonstration a squarting light at a limping table with chipped places

of innocent tribes that camp in the empty lots with their women and chidisin their animals and their chosts.

of the tats in the sevens and the brave spanows that next in the wines, in the

comuces and the martered inees

of the contemplative case and their libentine novels in the light of the moon, cruel opticities of the moltrane.

of the stray dogs that are our Francecare and briekus, the dogs that scretch up the bores of the sun.

I speek of the anchioste and the liber tarsin brotherizood of the secret picts of taw enforcers and of bends of theyes.

of the conspiracies of lowiess and the Society of Friends of Crime, of the Sacide Club, and of Jack the Ripper

of the Friend of the People, shirpener of the guilotme, of Gaesar, Delight of Humarking

I speak of the paralytic stam, the crististic well the dry fountain, the graflifed statue

I speak of garbage texps the aze of mountains, and of metericholy surright titered by the attor.

of broken glass and the desert of scrap son, of last right's crime, and of the banquet of the immediate

of the moon in the tolowsion anternas, and a bufferty on a fifty gr.

I speak of clavina i/or a fight of herons on the lexe, and the sun of hanspened wrigit fail linds on the rock follage of the churches, and the twittering of light on the gives status of the palacea.

I speak of certain attempons in early fall waterfalls of immaterial gold, the transformation of the world when everything loses the body, everything is held in suspense.

and the light finnks and each one of us feels himself thought by this reflective light, and for one long moment time desolver, we are an once more.

I speak of the summer, of the slow right that grows on the horszon like a mountain of anoles and bit by bit it crumbles, failing over us like a ways.

The elements are reconciled, right has stratched out, and its body is a powerful river of suddien aleap, we rock in the serves of its broading the hour a tangtile we can touch it fen a that

they have it the light, and the ivenue burn with the brilliney of desire, in the parks electric light breaks through the branches and latis over us like a green and phrophorescont must that illumnaties but does not wit us, the trees mumur, they tell us something.

here are shoets in the half-agts that are a smiling insinuator, we don't know where they lead, parhaps to the larry for the lost stillings.

I spaak of the stars over the high terrices and the indeciphonable sentences they write on the stone of the sky.

Especial of the subdex coverpour test lastres the weldwards and bands the base, this lasted wenty five minutes and reverse of light steam reserved the apphal the care platers, there are puddea where sitis of inflectore set.

speak of nomatic clouds and of a

Goof Proof!

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Unloss you're perfect and never gool-up, you need a Brother WP-80 or WP-85 Word Processor with GammarCheck." They're powerful, versatile, and easy to use. They offer everything you need for office and perscent aperfections.





fan music that lights a soom on the fifth foor, and a mumur of laughter in the mobile of the right like water that flows for off through toos and oneses.

Ispeak of the longed for encounter with first unexpected form with which the unknown is stade flight, and revealed to each of us

eyes that are the right hall open and the day that welvas, the sea stretching out and the flame that speaks, powerful breasts, knart bla,

lips that say sesame, and time opens and the lictle room becomes a garden of change, as and fire entires a garden of wear minole.

or the annual of that moment there, on the other external that is really here, where the law locks and time oppose to flow.

the moment of anti-rew, the basis of the gapps, the moment, the angular, the soul been as body and crashes through a hole in the floor, failing in itself, and time has run aground, and we wilk through an institue operator, and we wilk through an institue operator.

is that music coming closer or recenting, are those pale lights sai it or going cut² space is singing innelses variable if is the gosp. it is the global that sign shough the black well, it is that wall that systestier, the wall,

Espeak of our public history, and of our secret history, yours and mine

I spaak of the forest of stone, the desent of the prophets, the ant heap of souls, the congregation of tribles. If the house of mators the lapyrinth of echoes.

Ispeak of the great marrier that correct from the depths of time, the incoherent whoper of nations uniting or splitting grant, the wheeling of multiudes and them weepons like backdase huving clown. The dail sound of bones failing into the pri of history.

I speak of the city, shaphero of centunea, mother that gives birth to us and de vours us, that cereates us and longitis ____Ortaxin Paz DO

CPE DITS



OCTOBER IN TENNESSEE is when the hills grow darker and the stories taller.

The man in the wide-brimmed hat has a good one about the Tennessee Wyooter, a barn-big critter who roams these hills under October moons. And

chough there are those who question his scory, he'll have you hanging on every word. Of couse, these same old hills are legitimately famed for good whiskey. Drinkes call Jack Daniel's the smoothest there is. And, after a sip, there aren't any questions about that.

SMOOTH SIPPIN' TENNESSEE WHISKEY

Someant White + 15-05 should be where (III.IT prof. + Outliet and Reflet to bob David Scholery Core Walson Property Kode 1: Landstop Proc NIL Revenue NVZ2



BRAINSTORMS

access to internation tion offer parts of the world. The improved access with here some diselbacks. The threat of outband weators incorrepretation revery ingose a reteal to insiderate always of threats parts the latema reversit hard weat the index communications scheduling may also bail discontent in the world's possibility of the provide outband the life refer they see on isdewater with their own—"Avaccess scheduling they work flaw the index offer the see the index offer the set of scheduling the set of the index offer the set of the se

DetTED STATES By the and of the princy the United States with have completed an "micromatoral spontinghwo" (fibercytic catalies from costs to cost the diptined system will carry ucce and digital data, endowing users to this send before polices, and communities with any state of the states and the states of the entermined and any second to be nation, thus actioning from hardrades of makes thas actioning from hardrades of makes thas actioning from hardrades of moves that one hard with an entered of the states of the states and an entered of the makes that one hardrades of makes that one hardrades of moves that one hardrades of the work has an one work to any the work to any

Advances in telecommunications was accessible a more disensity "anticipatory democracy" in which people became more methods in government discussion. Charan wituan home based computers are computer. This indexinate intellity was brone advances fractional intellity was characterized advances of a subplement of the subcession - Reader Obox, hotelets for Attemative Fusions, Calinot Jennion, Tail

ELFOPE: Computer consolers wit be stacked to this slightnerin every homebased by the subgrowing envery homebased by the subgrowing information on everything from team schedules to shopphysic operior polis __AST. Europeen public operior polis __AST. Europeen Economic Commonly, Free-schafting and Assessite Antian

SOUTHAMERICA Farmers soluted in rural areas will use information gathered from telecommunications systems to dirottinar ergs to countrols willing to pay the most. They will thus work compit micidamen and line the highest market.—GRAUE Lang. Peru

We are clowing in the weath of the information age. We have the information but no way to arginize it "-James Ban nat, Foreaight Institute

THE HEALING ARTS

Dava, call your clocker "

It wouldn't stop Even now the nagging continued

"Qualit" heholiered He knew it wouldn't help. The sensors in the arms of his La-2-Boy socker had atready detected his the craw quickness pulse his systelic and disnotice presents. The implasts with dinetly to a medical computer programmed with everything from his parkade genetic assumes to the dibala of his present unitsen. If general diheigad At fly Dave stil bolies thety free flichtosyte de dich ware high thiss been only teemonthis ancest to diverse. Today to warted preview.

Dave your blood pressure is way up' said is voice within the chair. "Your pulse is too tast

"Dermit" said Dave He didn't need the furniture to tell tim about stress. Ho got off the other and went to the bathtoom A display feathed over the tolkit unexcination entraction stress-rep. And homeotes

He went to the refrigerator and punched the button for a beer Nothing happened. "Given your current stresslu stale, skohol ingestion is not recommended," the findge said.

Monitoring technology will be embedded in the hôme. The lolet will analyze urine; a favorite chair will take blood pressure and feed it to a computer filled with medical expertise.?

"All right already 1 give up!" He stomped to the telephone and called his doctor's number

Tid like to make an appointment with Dr. Frank.' he told the sectistiary

"He knows," said the secretary Devols vital statistics had long since been taneinitied to Dr. Franks computer. "We've been expecting your call."

UNITED STATES Advances in toborhology will have Alvino against the feat general capital of controlling in low of the human generation will eventually poduces a genetic read maps of spacehile human characteristics. With this maps may be possible to menpulate his general humans and structures and on genetic humans and structures and on spacehile humans and structures and structures and decide many builds to define all define and decide many builds to deministic genretic disease solet for blue low open or general mitight addition to human space.

-Stuart Kaufiman, L. M. Senmons, Santa Fe Instatuto, Santa Fo, NM

By 2010 home health-care monitoring systems will chapter disease recommed inselent, and communate with represent including and the Marken's local type will be inselect on the selection of the inselection of local to a compart filed preserve and food to a compart filed preserve and food to a compart filed beauting the selection of the last reader, the system will reacted and the last reader, the system will reacted inselection of the selection of the and the selection of the and the selection of the reacted beauting the preserve and the selection of the market of the market of the selection of the market of the and the selection of the market of the

Nensetativities with bring medical cases to the motion revel Doctors with npd the submernelike mathema capable of statuke places and submernelike submernelike mathematical submernelike wind the OAN hele, peocheait the ganetic market, and out you with motion and then repaining and using wath mathematical and thematical submernelike the submerner submernelike behavior submernelike methods readed and investment that an inclusion statuke and investment the methods readed and investment the submethods readed and investment that is nonmethods readed and investment that is inclusion submerner and the submethod submethod is frequent works and the submethod submethod is frequent works and the submethod submethod subtion of the submethod submethod submethod submethod subtion of the submethod submethod submethod submethod subst frequent works and submethod su

SOVET UNION Medical care, widely consistent catastrophic in the USER, will sig bornd the Wests well into the twey test century—Archa Plonthosky, hist tals for Systems Studies, USSH Acadom of Soptomos Moscow

EUROPE: Let expectancy whireh thread working entering with bycome a power and again term with bycome a grower and the again population with place a haaveer tell on public health-cetter systems. In the ord occety will object to heroor disparang measures for this very disparation and a system of the second occurs. Forecasting and Assessment is Secreto and Machinelay.

DPCPC RM / As and provide a standard characterized and the standard standar

Artificial hearts leakings and muccles will become commorplice. Poloni modensing will make it possible for doctors to create artificial ingens with materists thatar writelity dominal for human tosaac but that read reaction by the anopient's immune system. People will dee not find does but from the natural timelodown of body tassue. For the Japanese, average life span may reach as light as one hundred in the need centry But is a double. If kill mut much full is a double. If kill mut much of the basic instructions hail are programmed into the body's DNA —Ch Naemonin Jahu, professor of modione at No-Noo University. John

MDDLE EAST building on its current mechanismustructure, sinael with become a regional center for mechan to testimate and memory, specelation of an encode to the Third World, Arab countries, and coultines Buope—Ton Box, Foundation for Assest anthe Twany-Finst Century, Keter Sales, Irand

SOUTH AMERICA. The regions man

Institute processors will remain the important determined of the important determined of important determined of institute in and institute of an and institute in an and institute institut

The woll off will travel to hospitals elsewhate for modern Instituents — CELATS Latin American Denter for Social Work, Latin, Peru

AFRICA. AIDS will spread across southern Ainca along transportation and migratem naties. A number of AIDS-the opclomec may emerge as the HV virus continues to change – Wilkem B. John min, The Hadeen Institute, Peter Speec, Institute for Factors Devices in Hear System Stellenborg, Behvill, South Africa

"Nanotechnology will make us sook back al surgery with scalpels the same way we look at the use of leaches tucky." --Jonathan Peck, histoste for Alternative Follows ENERGY

Mematonal Healt-Titune November 21, 2005

Detere Suban DENG // B. More Ten Line //wo care this on, instrume. Basid Arabien fahreli hala Yarman, who made is forther in of soles and then lost it when thermarket levices and ten lost of when thermarket levices and ten lost of when thermarket levices and ten lost of the for discussion and the lost of the thermarket levices and ten lost of the thermarket levices and ten lost of the thermarket levices and ten lost of the disconting the Arabien on enclosed on the disconting the Arabien on enclosed on the levices and the lost of the lost of the disconting the Arabien on enclosed on the disconting the Arabien on tenden and been using to mouth reduct soles nuclear and prehanaive Middle East Peace Initiative "Once you have solved the resource problem, people will talk peace."

The shektr's last major project involved building a 20-square-mile array of photoxolisic calls in the Ansian Desert That project is scheduled to begin sandrist electricity to Europe nest veer

WORLD Fusion energy, will probably become commercially available by the mid twenty first cantury A whether a sense rise, more and more nations will turn to after rather energy sources fixe solar power and conservation. Photovoltaic cells, which directly convert surlight to energy will become economical

Some grys know.

recycled energy by hen that the withholding of oil had little effect. Oil prose diopped after that and nover recovered

arrent tutter under beiden prodet Piel beidene importer in einigt sourcen in the once excluded Middle East (He providel east more) for Antib-Isteel anergy socharges, which included the constructor of a mutual gas pericle from Egypt to Isteel He also funders a hydroelicithe canal lengt the Middlermentain Sea and the Deed Sea, the lowers point on Darth. Weller cascarding down the canal aprils Arbines that provide elecficial to Patients.

"Outs is a region of scarce resources," he said list May at a conference calebrating the tenth anniversary of the Comerrough to suppoment power plants during prok power naces in nuclear technology a secend generation of power plants smallet, less expersive, and soler fairs todays—will omergo

The Sovet Unon will become the primary energy source for Europe as the completed trans-Siberian pipelines supply the continent with natural gas

The world's deeards, with their solution concerts with light, will serve as notifical sources of solar electrocity. With current transmission tachnology many diserts are loo remote to supply usabilities, too much is lost as leakinge along winds. This development of supprovide that will commake that

leskage and meloc flessible to transmit visit amounts of power from deserts to urban contrars. Enormous watalainds like the Sahata will become the sites of enormous photovoltaic amays

In much of South America: Asia, and Ahos the use of chrocoal and fuolicool and continue to deatry towards—Asia Damasche, Resources for the Fukue Meshnejste, C. Mennohen Hestale for Applied Systems Analysis, Barveth Nac, Contre for Proceedings and Analysis and Perecentre, St. New University, To Ano.

'Garbage will be one of the great resources of the future '--Joseph Coales, J F Coales, Inc.

Denamber 22, 205t (AP), & manual

and antronaut Arkady Lacminezy, echotumento set loct on the moon. Lapmanov atendenci into the red start of Mars ador a

coming the first man to welk the calcum lerence of the moon. The other clew members included orgineer Ana Lopez

of the \$1 tollion cost was supplied by the

plot the statum meeting that proba-

WORLD. The world will move toward a multipolarity in which the United States Jepan and Europe share power with to Mars. The project will post too much to effer ratio aims Fumps and Ja

for long-term peece. At the same time international lanseers may excluse over

Astronautica Wastwiction, DC Hawny,

munications medical technology aerothe total worklospe in 1981 to 11 percent in 2000 and 3 percent in 2020. The inforhim 80 percent by 2000-S Norman

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The evolution of a look into the full value arought to life in two new articles from CMNI

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LEGI - real or imagined? Have

Mining the Moon And much r



SOVIET UNION The USSR will move towards a market-based accountry in the net couple of decades. The government will out expenditures in heavy mobility and he minary which instituting methods wages and policial charms will double the netions economic output by early in the hearty-stronger output by early in the hearty-stronger, institute for Systems Sources USSR Academic of Sources

EUROPE Europe elevation from the Asterio to the Usel Nourisers, will unlepointaily and isomermously by the most worth what contraversities that exist only provide another that exist only a december impairs and where, compromassed designs, first, victo, DNA detrime. Twee people will track what they produce — Hopsas do Junetime Association Informationale FutureNet. Dr. Unionce Means, prevalent Meth/Tuture Science Foldwarter, Remo

PRCIPCE HM (1) Japan most tractions will be in ity product, with no human labor part the product design stage. Those benefity lattice guatern orders for consumer products. For example, a custom and choose the size color and specific and choose the size color and specific mores, the testimery wild opsemp produce it subdy at low cost—CS Singer Mertanable, Tarys Sames and Terhology Colorge, Socies Avats, Antreas Hone comp Development Color Tary.

MUDUE EAST. The Atheb-resels cortra will en air white inserts in a second Experitorial end and whiteheast and a second Expertonement prepare, but in a first and white corrent prepare, but in a first and whiteheast and the activity to optimize the end of the activity to optimize the end of the activity to optimize the end of the activity the presence many of corrent in search bases data part with the activity of the end of the activity the acmised heads and the activity the activity the acmised heads and the activity the activity the activity the acmised heads and the activity the activity the activity the activity the activity the acmised heads and the activity the a

APIPCA Hotplad by a tack of technological know-how. Africa may eventually become excluded from the world economy—The Club of Rome Rome

OH, THE HUMANITY

Lo Front National, Mensolize, France 20 May 2005 A Maharan

WHEREAS the work's poorest nations have failed to control their expanding populations

158 CMN

WHEREAS said populations are becoming younger and more wolent

WHEREAS these nations have done rething to inclustratize, economize, or provide employment for their young

WHEREAS these nations have done rothing in any way to improve their lot

WHEREAS the spawn of these nations have continually covated the wealth of our fair lady. France

WHEREAS the inhabitants of these nations maintain a berbarous appoatance despite what we taught them

WHEREAS they are already swamping our factories and social services

THE IT ALSO AND THAT AT the sorts of Fairon declare wer on the medicing hordes. We way to keep them cit out loadly strong to stem their tide, and to hold back their bush numbers. We see to protect our outure, our children our church and sound sind. LIBERTE, ECALTE, FRATEWATE WE LA FERANCE!

 Repid urbanization will lead to the growth of apocalyptic megalopolises immense cities
 The rich will live in heavily guarded compounds surrounded by bets of misery.⁹

WOTKD. The world's population will green to this into this to be constructed in the second second

A hierarchy of have and have-not nabors wil divelop with respect to computes in education individual rations will develop than ownellies of the technologically learned. Because three entres with follow previously existing sociooconomic lemets: social inequities will prov-Basich Risz, Center for Technological Ansi-

SOVIET UNION Stradding the continents of Europe and Asia, the population of the Stratel Union will append an European regions. Younger people will live predominantly in Asia — Andria Postkovsky, institute for Systems Studies, USSIR Arapheny of Stances

E.ROPE By the year 2015 were least European could be suly-live years or older AI the same time to legal referment wil drop to thy-live. The result as minority of Europeans working full-time. People in their twettes and threfes will monspolate high-parkensmice jobs

-Hugues de Jouvenel, Association internationale Fusinibles, FAST European Economic Community: Forecasting and Assessment in Science and Technology

JUPPN Crowled Takyo will become own more populated and corganized the government will outside it taky nontrest and prevent municipal miles to theperse the population. Note: Lapanee assignment will cateful a power As or contowing warrane. Juppn will build ofers on wester, creating issues of lower of take and government. Takyo Juppan Economic Paraton Agreen Balon.

SOUTH ANERCA: Tespel strategy to well load to the growth of "specialitytic megalizabilities" ---mmerse, danely populated order. The rich in such offse will be nearly guarded formers Acoust the body's newsles of these well be in majority of South Annances untain populations. The poople will be in this and that and that and in chardwale were to instal delacticity. They it could will have nearowing well, and only well and

Field index will be depended of in spansperses on in olivitis. Diverse will be rempart, press will abound Polytem will node untravable level. In some ches a more bergin pattern of "poor unearem" untrag ortspet i these printig experiment garast, heree groups will build up there insight britistist and abole will experiment garast, heree groups will build up the insight and abole will a setting to you appended, such zones will provide important basis and another building the setting such zones will provide important basis and setting themselve of themselfs. Genome

APRCA. Geology unerployment will lead to increase poverty and owner, lead to increase poverty and owner, understrategies of the second second second mition workers. By early in the twertytact century 22 Macan obee will have average populators of 1 million or morelise than south Amencan counterpartsmost ofly deallars will her in square -Economic commission for Maca

¹ By 2020 the combined population of the four largest countries in Europe—England, Raly, France Wast Germany—well be itss than that of Bangladesh — Ben J Wattenberg American Enlarprise institute for Public Policy Research

CRIVE

It were years since Catice had held a gen morthwater hish had nen hand en hat larges backda were he keys of his provid all been noveket. Faur years it benges backdare hat were he keys of his provid all been noveket. Faur years it benges Community a Catie to Timipropage Community a Catie to Timipropage Community a Catie to Timipropage Community and the to the too t

He topport out a proce number walled for a prome, and then typed an entry code. Hundreds of numbers filed the screen. He moved his quarter onto serve digits and changed harm. He left his deals and smiked a Cuben ogst Wenche rehurmed, a notor fissied on his computer digits/ Datily done he frought. And so much observe than machine gues and benefits.

Five hundred miles away the screams rose above what would later be recorded as the most biasintous them weak in Baropeen history. The Mistral on its madian run from Paris to Moscow was traveling at the speed of sound when it was shunted amo an unused track near Katerube No one would very learn why Its guidance system talkd. More than 1,000 people deed by the time Carlos had trinshid his ogar.

UNITED STATES Soveries will docover physiological links to problem behavior in dhickness have been been been and disclosed minas in the potentage disclosed minas in the potentage when out is will visit them come be when colling come involving information and economic materialism will nise Americans will begin to give up certain individual rights in return for isosetal safety and protection.

Deposition to chug leding wil ware sommalight data aw Mitigare of Finance sommalight and the source of Finance Bectmon bracelet will provide charges the source of the source of the source able concerns and monitoring systems. But basedets will encode the source of the source the bracelet will alk to appendix and the the process will a left appendix able of the process will a left appendix able of the process will a left appendix able of the process will be able to be able of the process will be able t

EUROPE. Tencrets will use monete ingly advanced weepons such as ultracaped the machine pistols or hand held guided missiles. The danger of nuclear Internet will receive through the het/ofdialogicitual components. Computer of annotani the terms will have will annotani the terms will have will started unthromg bank records and chooses as diverse as banking or mass interest unthromg bank records and chooses as diverse as banking or mass thread unthromg bank records and chooses as diverse as banking or moust interest unthromg bank records and chooses as diverse as banking or moust interest and the start of the Salar of Termson London

ably to retrolation, public SQU 11 AMERAC. Come will continue to me throughout South America, along with the notation of closel/better, unanted with the notation of closels and the bit and throughout control of come ability and space of come to be ability and space of come docime Aliances between dhug-growing peaks and is and revolutionary gavent growing and is and revolutionary gavent fail may spread—unative for Phonese Southare, Promotore, and Development) Lima. Per Per

"The open space prison is the wave of the luture "---Hubert Williams The Police Foundation

Contributors Amy McDonald/New York, Brandan MurphyRome, Corrine Schmidtl, Ima Al Fuel/Tokyo and Bonton, Hanaida Frid-Caro He Shaqurr Baeng, Shohe Kunta/Tokyo, Asako Hatar Tokyo, Dawid Gumpent/Tokyo, Santh GauserRedor DO



AT THE RIALTO

and pointed to the print of Betty Gablies leg--Yind we can figure out the signatures, but what is the reference to Sof on all these squares? And what does this mean?! The pointed at Reed Skettoms square it said, movies to we boold in

You keep timiting you've found a pettern, David said crossing over to this other side, 'but Van Johnson's squere is sind of avaidwichted in here all an angla between Esther Williams and Cartellas, and who the hell is May Robson? And why are all these iscusses empty?

He had managed to manaser me over behind the display of Academy Award wmeet. It was in accordonities woughtion screen i was in the fold between 1946 and 1945.

Wind as if that ran't enough, you sucdenly sealors you're-standing in the court yand. You're not even in the theater."

And that is what you think is happening in quartum theory? I said weakly I was backed up into Bing Crosby, who had won to Bast Actor in Going My Way. You bink wore not in the theater yet?

Think we know as much about gamtum theory as we can ligate out about puching her hand up to highly out about blocking my escape. This take blocking my escape Thistithink we understend approximation to explore the taxet to warring the complementary the taxet of warring. The taxet of the taxet of the taxet is the taxet of the taxet is the taxet of taxet is the taxet of taxet of taxet is the taxet of taxet is the taxet of t

The Best Move of 1945 was The Lost Weekend Th Casterian understands i I said disentanging myself from the Academy Averet wrines and David Told you know hels puting together a new research term for a big project on underrisedhin casentim freer??

"Yes," David said. "Want to see a move?"

"Theese a seminar on chaos at nine." I said, stapping over the Marx Brothers. "I have to get back."

This chick you want you should stay right here. The said, stopping to look at level Eurness thersprists: Wincould see the movie, and than go have dimer. There's this place near Hollywood and Whie that has the masked postace Reimard Daytos made no Devis Tower in Clave Encounter."

"I want to meet Dr. Gedarken, "I stud, making it safely to the sidewalk. I looked back at David

He had gone back to the other side of the courtyard and was looking at Roy Rocersis sponeture

Yee you kelding? He doesn't under stand it any befter than we do

"Well at least heis trying.

"So am I The problem is how can one neutron possibly interfere with itself, and why are there only two of Tingger's hoofpents hore?" 192 Owi "It's eight http://we." I said. "I am going o the chaos seminar" "If you can find it' he said geting down

on one knee to look at the signature "It find it," I said grimly

He stood up and grinned at me, his hands in his pockets. "It's a great move," he seed

It was happening again 1 turned and practically ran across the street

"Bare X is showing "he should after me "He accidentally exchanges bodies with a Samese cat"

Thursday, 9–10 rer. "The Science of Choos." I Durchenender, Lappa, A seminar on the structure of chace. Prinopies of chaos will be discussed, including the butlerity effect, inactais and inseate billowing. Clara Box Room.

I couldn't find the choos seminar The Clara Bow Room, where it was supposed to be, was empty. A meeting of

61 read the breakfast entries. They all settined to have clantro or lemongrass in their names. I wondered whether radiochio could possibly be Californian for donut.?

vegetareant was need door in the Telfy Arbudde Room, and all the other conference rooms were locked. The channeles was still in the beliecom. "Come" still commanded when I opened the close "Understanding awate?"

(went upstans to bed

I had forgotten to cul Darlene She would have left for Deriver already cul 1 called hise antworing machine and told it her com number in case she picked up her messages. In the morring I would have to tall that front deals to give her a key I want to bed

I dight sleep well. The air conditioner went off ching the right, which meant i dight have to steam my suit when I got up frei next maming. I got dressed and went downstats.

The programming started at nine alcock with Aboy Twistle' Workshill Work' workshop in the Mary Rickord Room a breished buffer in the ballroom and a side presentation on 'Delayed Choice Experiments' in Card B. Daville A on the mezame level

The breakfast bullet sounded wonder ful, even though it always turns out to be um coffee and donuls. I head I head in the head but in ice cream cover lance room the day before, but if David ware around, he would be somewhee chee to the boot, and Twenhed to share claim of him. Led ingthis had been Grasman's Chinese. Today I was likely to end up-art Khot's Beny Farm. I waard going to let that happen even if he was charming.

It was ploth-dark imsele Cool B. Do-Mile A. Even the sick on the screen up fort appeared to be black. We you can see "Dr. Look said, "the laser public a dneady in motion baffers the apparentiate sets up the wave or particular detector."

He defael again, to a white skile with black police dos that gave off enough light for ne to be skile to opto an empty char on the able ten rows up. I humod to got to it before the skile changed, and sat down

— — a par of doe. Alley's experiments had shown us that when the particle detector was in place, the light was delected as a particle, and when the wave detector was in place, the light showed wavelies betward; no matter when the choice of appendix was made.

"Hi" David said "You've missed live black sides two gray once, and a while with black poles cots."

Shh'l said

"In our two sense, we lepped to accertain whether the consciousness of the doctors allocited the outcome. Dr Luov cricket to another black adds for you can say, the graph shows no effective officeence between the trees in which the experimenter chose the detection appaint us and these rivehold the apparatus was readering chosen."

"You want to go get some breaktast?" David whepened

"I already ats," I whispered back, and wated for my stomech to grow and give ms away it did.

"There's a great place down near Hollywood and Vine that has the waffles Kathanine Hopburn made to Spanon Tracy in Woman of the Year"

"Shit' Laan

"And after breakfast, we could go to Frederick's of Hollywood and see the breakfaster in museum."

"Willyou please be quet? I can thear"

"Or rese" he sould but he subsided more or loss for the remaining minity-live black, gray and police clotted slides.

Dr. Low turned on the lights and blinked smilingly at the audience. Contoioxsness had no discernible offect on the results of the experiment, As one of my lab assistants put it. The life drive

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knows what you're going to do before you know it yourself

This was apparently supposed to be a pixe, but I didn't think it was very furry. I opened inty program and fined to find something to go to that David wouldn't be caucht deed at.

"Are you two going to breakfeet?" Dr

"Net" Devel saut

Ma loast

"Or Hotard and I wahed to eat some-

"Divid knows just the place," I sed He's been telling me about this great place where they trive the grappinul James Cagney showed in Mae Clarkets teen in Public Eneme."

Dr. Hotard humed up, canying is cameria and four guidebooks. And then perhapp you would show us Gnumar's Chneae Theatso?" he solved Devid

"Of ocurse he will "I said "I'm sony I card gowith you buil permited Dr. Wekovsky for be at his levene on Boolean logic. And after Grauman's Chinoso Dawid can take you to the bramuseum at Fredericks of Haliwood."

"Ind the Brown Derby?" Thobdeaux, seked "Theve hered I is straped kee a chapera." They disgged him off 1 watched bit free were stelly out of the lobby and then outload updates and no Dr. Whitedbeak lacture on information theory Dr. Whedbea waant these

"Did you get that at the breakfast but fat?" I asked

"Nos It was the last one And they ran out of collee right after I got there You wearn tat Aboy Field/us thing were you? She set the collee cup down and took a bits of the donu

"No," I said, wondening if I should try to take her by surprise or put wredle the docut away from her

"No drift miss arything. He raved the whole time about how we should have had the meeting in Pacere. She popped the last proce of dout in the mouth. Have you men David wit?"

Enday 9–10 rm. The Euroka Expenment: A Sade Presentation. "J Luce: Eureta Calogo Descriptions insults and conclusions of Luce's delayed conaccusivendemiced choice expentimete Cool/B Deallie A.

Dr. Whedbee eventually carrie in cartrying an overhead projector the cord trailing behind him. He pluggod it in The light deht go on

"Hore," Dr. Takum said handing me her plate and oup. "I have one of these at Cakeen. It needs to fractal basin boundation advanted. She whacked the ade of the prostolor

These senses I even any orunits left of ine down. These was about a millimeter of optime in the bottom of the cup I was about to stopp to new depth when othe hill be parector again. The light come on 1 learned that in the chaps aromer liket right in the case, and the cup aroug here me and daming it. You choud these bear there. The Claim Bow Room was routhed.

T believe tim medy to begin." Dr Whedbee said Dr Takum and tast down information is the transmission of meaning. Dr Whedbee said, His wole wolw ins or possibly encommon on the property with a green Magic Marker.

"When information is initiative meaning cannot be transmitted, and we have a state of entropy" He wrote it under services with a red Mago Marker. His handwriting appeared to be completely slegible.

Sates of entropy vary from low entopy such as the mid state on your carradio to high entropy is abilitie of complete disorder of tandomness and confusion in which no information at all is being communicated.

Oft. my God, 1 thought. I forgot to tell the hote/ about Darlene.

The next time Dr Whedbee bert over to insorbe herophyphics on the screen. I smetked out and went down to the cleek hoping Tiflary hadn't come on duty yet. She had

"May I help you?" site asked

Im in room 663.1 Laad "I'm sharing a room with Dr. Darlene Mendaga Shris coming in the marring, and shell be needing a key.

For what?' Titlary said

To get into the room 1 may be in one of the loctures when she gets here."

Why obesn't she have a key?"

because she isn't here yet

"I thought you said she was sharing a room with you"

"She will be sharing a room with me Her name is Darlene Mendioza"

"And your name?" she asked, hands

"Buth Barrone"

We don't show a reservation for you

We have made impressive advances in quarterir physics in the neisty press since Pfinick's constant. For they have by and large been advances in technol ogy, not theory. We can only make advances in theory when we have a model we can sequence. Eccerpt from Dr. Gecatriers is known advances.

Itigit-enloged with Tiftery for a white on the subjects of my not heaving a reaensition and the an-carditioning and hen evidend back subdenly to the problem of Datemink sey in the hope of cabining her off guard. It worked about as well as Allwis delayed-shoce experiments.

In the middle of my attempting to ex-

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001 routed add/H4 02 MI calm built MI colless safes 2 to acceptions plan that Darkine was not the ar-cond toning separation Abay Fields carrie up "Have you seen Dr. Godarkon?

I shack my head.

Twiss surf ted come to my Wondser, tal World workshop, but he dicht, and he hold save hey cart hed he reenvalent he sad, scanning the lobby "I burd out when he new properties, not density and id be perfect for it hese going to trid a particight for quartum heavy is that him?" he said pointing at elderhims outfour he said pointing at elderhims outfour he said pointing at

I think that's Dr. Whetbee I said, but he had already sprinted across the lobby to the elevator

He nearly made it. The elevator slid to a close set as he cot there.

He pushed the elevator button several arres to make the door open again, and when this can bundanes. I tarred back to the deak

"May I help you?" Tiffany said

Yearmay, I said "My nominate: Darlens Mendoza will be anning sometime the memory Stease producer Swissheet to cast the formale lead in a new movie sterming. Robert: Reduct and Hermon Perd When she gate have gate har her lead. When she gate have gate har her lead. And is the air-conditioning."

"Yes maan," she saw

The Josephson Junction is designed to that alkohms must obtain additional anany to semicant the analysis beams it has been found, however shat come electrons amply tamail an hiero Papelo pat 4, "right through the wal" —From The Wanden's World of Quantum Physics 1 4, Feature 1300

Abey had stopped banging on the elreator button and was trying to pry the elevator doors apent

I went out the side door and up to Hollywood Bodieward, Davids restaurant was rear Hollywood and Wrie 1 turned the other direction, toward Graumans Chrease Theathe and ducked who the fast restaurant I saw.

"I'm Stephane" the watness stad "How many are there in your para/?

There was no one remotely in my vicinty. "Ani you an activite-stash-model?" I asked her

Yes I'm working here part time to pay for my bolistic haratylino lessons."

There's one of me, "I said holding up my forelinger to make it perfectly clear."

She led me to a table in front of the window hsroked me is menu the size of the macrocosm, and put another one down across from me

"Our breakfast specials loday are papaya stuffed with salmorisenes and resturtum/reductio saled with a baisened weagenes. It lake your order when your other pany anives.

I stood the extra menu up so it had me really Graumans Chinese Theatre. Its from the window operand the other me. Mennis in Set and reve assured to ask

and read the breakfast profes. They all seemed to have claritio or temorgease in their names.

I wondered it reductite could possibly be Californian for donut

"H." David said, grabbing the standing-up menu and sitting down. The staurcher plate looks oped."

I was actually glad to see him "How did you get have?" I selead.

Turneling, 'he said. What exactly is extra-wram olive ol?

"I wanted a dorut." I sed offully

He took my menu away from me, laid t on the table and stood up. "There's a great piece next cloor that's got the donut Clark Gable taught Claudette Collect how at tank is it it involved Ope Meth?"

The great place was probably out in Long Beach someplace, but I was too weak with hanger to resist him. I stood up Stephane humed over.

Will there be anything else? she elsed

"We're leaving." Dawd said

"Okay then," she taxid, learing a check off her pad and slapping it on the table "hope you enjoyed your breakfast

Friending such a paraleliger is official: () root impossible. Data is Plauvic's constant the workd we are is anywell, dimension Liphendrown more and market and the hendrown more and market and holds waree are wares and objects do not auditaries works mit of used to not auditaries. Were shall be a soly on the subsection: which is only on constant—Excerpt from Dr. Geclankorts in-professions actions.

The restaurant was not close to Graumans Chinese which made me a life invous built had opps and bason was been and ownee use and collee. And donuts "I thought you were having besidest with CT Thisodesize and CT Hosard Tisaa, during one nimy colles "Weat houseesia lo thory?"

They weril to Forest Lawn Dr. Hotevol wanted to see the church where Ronald Reagan got mamed."

The got married at Forest Lawr?

He took a bate of my donut. "In the Wee Kerk of the Hearher, Did you know Forest Lawris got the World's Largest OI Parts no Incomposition a Brekenus Thread?"

"So why detail you do with them?"

And miss the move? He glabbed both my hands across the table. There is a matrice at two dictock. Come with me

I could hail things starting to collepse "I have to got back." I said trying to deentangle my hands. "There's a panel on the EIR penadox of two clock."

"There's another showing at two And one at eight "

"Dr Gestankens giving the keynote address at ophil"

You know what the picklem in? I he said still holding on to my hends. It shit really Gauman's Chinese Theatre. It's Memis no Said en't rever accurd to ask

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Like, why do some pens like Joanne Woodward and Paul Newman share the same square and other pars don't? Like Grouer Broers and Fred Astain?

"To know what the pockers of " I and, wenching my hands libe. "The problem is you don't kee anything evolution is a carrierance, but you don't care wrything about the plagramming or hearing Dr. Gedanken opeak or thying to underteerd quartum theory." I fumbled in my pure for some more/v for the check

T thought that was what we were taking atout," Devid send, acunding surprised. "The problem is, where do those lon status that guard the door it in? And what about all those empty spaces?"

Fictay 2-3 min Panel Decussion on the EPR Panadox 1 Takums moderator, B. Verson, L. S. Ping, A discussion of the bitelit research in single state comitators, including nonlocal influences, the Calcutte proposal, and passion. Keyatore Kose Poom

I vert up to my room as soon as I got back to the Raits to see if Derlene was then yet She waar), and when I tool to call the derk, the chone wouldn't work I want back down to the registration deal. There was no one there: I waited filteen minutes and here wert into the panel on the EPR canada.

The Brittlemone. The Brasin-Podalsky-Rosen peradex cannot be reconciled with quantum heary: Tor Telaum was saying. "I dom case what the experiments seem to not the universe can't affect exist ofther in-

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multaneously without destroying the entre theory of the space-time continuum"

She was right. Even if it wore possible to find a model of quartum theory, what about the EPR periodox? If an expermention measured one of a pair of sectrons that had ong naily collided, it changed the cose consistent of the other resonanceus, own if the electrons were light-years and

If was as if they were starnally inwad by that one collision, sharing the same square forever, even if they were on opposite adea of the universe.

"If the electron's communicated instantoneously (id agrowwith you, 'Dr Awrson akd, 'Your Holy clorit, they samply influonce each other. Dr Shimony defined this influence in this pager on passion, and my apparential clear/w-"

I thought of David learing over me bebeen the Best Pictures of 1944 and 1945, asyling. If think we know as much about quantum theory as we do about May Robeon from her foulprints.

"You cari't explain it eway by inventing new terms, "Dr Takumi said

"I completely deagnee "It. Parg said. "Passion at a distance is not just an invented term. Its a demonstrated ptenomenon". Romising the macrocosmic menuous of the window and saying. The see until in belie kolos acod."

It didn't makes where the elector want after the colleson Even if it want in the oppose direction from Holywood and Vine wath if allood a meru in the whdaw to hole it, the other electon would still come and rescue if from the radieche and buy it a domut.

A demonstrated phenomenoni[®] Dr. Takumi randi "Hell" She benged her modentor a gavel for emphasis

We you saying person doesn't exst? D: Ping said, getting very red in the tace.

"I'm saying one measily experiment is hendly a demonstrated phenomenon"

"One measily experiment! I sport five years on this project?" Dr Iverson said, staking his fat at her "Til show you paeson at a distance!"

"Try 6, and III adjust your fractal basin boundsties!" Dr. Tokum said, and hith m over the head with the gave!

Hef Anthing a paradigm is not imposebit Newtowine physics in relation attributes it amphotom Wire must find a motivities a mobine Wire must find a motivities of journet where in this isoble world that shares the offen boxers antibutes of quantum physics. Such a motific unless an it exums anyle wells contrelevely, and it exums anyle wells contrelevely and it up to us to Sirol it —Except from Dr. Godankonis hereche address.

I want up to my room before the police came. Deriver etil wesn't three, and the phone and an-conditioning still weren't working. I was really beginning to get worred I walked up to Graumanis Chrthe Academy Award winners folding

asked them

Dr. Whendbee nemoved his hand from

Heleft. Dr. Sleeth said discrimining herself from the Best Movie of 1929-30.

Lawn, Dr Wheelbee said frying to smooth down his bushy within fran

supposed to get in this morring

They hadn't seen her and neither had stopped me in the lobby and showed ma a postcard of Armee Semple Mo-Phenoris tomb Tillacy bad acceptible Natalie couldn't find my reservation 1 wint back up to the room to wait thinking Dar-

The sir-conditioning shill waarit fixed 1 lanned musel with a Hollwood bro-There was a map of the courtyard of Graumanis Chanese on the back cover Deboah Kerr and Yul Stymer dich't law Hepburn and Spencer Tacy weren't even on the map. She had made him wallies even given them a square

I wondered # Tiffany the model-stashacress had been in charge of assoring blankly at Spencer Tracy and saying

tress? Did it mean she was a model or an actives, or a model and an actives? She

tarive of the morecomm and that en Maybe they were sust working pertiting

Darlene still hadn't called by seven tried to open a window it wouldn't budge The problem was robody knew amto go on were a lew collding electrons that notooly could see and that couldn't Hesenberg uncontanty principle And there was cheas to consider, and entern and all them empty rearast We didn't even know who May Robson was

At seven thirty the phone rang. It was Datiene "What happened?

At the Beverly Wishire

In Bevery Hills?

"Nas its along story When Egot to the Ratio the hotel clerk-I think her name



was Tiltary-toid me you weren't thing She and they were booked sold with write at the Beverly Wishite in Room 102

Importable " I said. Ride apon the whole conference looking at Dearna to the movies

note address in helf an hour

He is? Defece set reacting surence, and then she came back on and in the universe.

"But he doesn't take quantum theory senously Dr Gedanken is hiring a research team to design a parackom, and top of the Capitol Records Building

Nou know the may be on to something there I mean annueness was all ocht turn theory needs a different approach Sid save-

This guy who's taking me to the moves toright. It's a long story. Tillany gave

location it exists in a superposition of 'mawse into a location

"The Wonderful World of Quantum

Forest Lawn closed at five oldock 1 lasked it up in the Holywood brochure after Darlene hung up

There was no telloo where he mont have gone the Brown Derby or the La. Brea Tar Pits or some great place near Holywood and Vine that had the schela cheet exploded in Alien

At least 1 knew where Dr. Gedenises was I changed my clothes and out in the elevator, thinking about wave/particle The problem was where could you find to include Josephson sunctions and paswith than a few looprints and the impression of Betty Grable's len

The elevator door opened and Aboy Funds pounced on me



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sed You heven Leten Dr. Gedarken

"No." he sead "the's abendy thom

the "We the undersioned damand that LiseBacre 'tracided shoving the cimboard at me again "Unlike Hollywood

delegate two hours and darty-six minutes to check in? They even sent some

'And Bewerly Hills I said absently Hollywood Bra museums and the Marx Incomposition a Religious Theme

an automatic pencil put of the pocket Tm preserving the peacon during Dr Gederken's speech JVell go on sign t he had bending me the panol. Unless at the Flatto next year

I handled the clubboard track to him "I

When we have that paraolism, one that sed be able to look past the colliding oloctions and the methematics and see Desuly-Excerpt from Dr. Gedenkens keynote address

"I want a ticket to Bary IX" Hold the put at the box office. Her name tao said

Which theater?" she said

This is no time for a high-entropy share

I looked up at the mercane. /less // main liteater and the two smaller ones on either spcla

They is doing autience reaction surveys "Kimberly said. 'Each thegier has a different ending

"Idon't know I just work here part time. to pay for my proared breathing leasons.

then reakzed I was going about this all I chose or which seet I sat down in This

Twe been looking all over for you" he was a delayed choice experiment and

The one with the tappy ending lisaid

I welked past the stone loss and into

It was bioper than I had imacined Rows and rows of empty red chars curved between the hupe pillars and up driwings. I stood there, holding my ar sibes and Pasanets and popcom starelaborate gold surdurst surrounded by sever dracores I had never imacined #

tains opened, revealing an inner curtain

1 walti down the dark ande and eat m one of the seats "H. I said and handed

"Where have you been?" he said. "The moves about to start

"I stoy I said I leared actors him and itended Datens her popcom and Dr Gedarken his us/bes. Twas working on

And you're both wroms. "Least "It on i'r Grauman's Chinese Itisht moves ether

"Sid." Dr. Gedariven said. "It serve all I think we should use first names

Hollywood | Laad 'Stars in the sideautionos surveys and bre museums. And

*Especially the Riato

cray sixes and the deapoearing chape ins or possibly scroewation on the over-

Did Dr. Takam profile hit Dr. Newson over the head with a give? Defense

"Shi," Devel seet. I there the movels lene settled back with her popoorn, and and the screen is un DO

EXPLORATIONS

CONTINUES FROM NOT 32

said 11 was a loopard's cave and 1 saw big tracks like those of a gant cat. Dad said, light the fashlight We must explore overything. I started shaking, What if the leggend comes back and attacks us? Dad said. kat bis cool. "I'm here

It was live entering a contentry. It was the inth time i had extend the home of a loopaid and witherset the remains of acmany kills. It was as coated (ney hard holding) the flashight was trentaling. It said the sony i'm gaving up May I wait costed? And Dad sod now with the leopaid returns, he will find you in ter way and bit you. Say with me

Ibelied Date, why de you need to explace? What if we just pretend had we have explaced everything? Why wild can have explaced everything? Why wild can have explaced everything? Why wild can assut we are looking for eventeen of prohadotic animals. But if it's too much for you, concross you can stay at the form and I will go actors. I wavried then for proud of mis 50 isoppod thating. But each time the heard something and each time the heard something that

August 7 Jim Rosi says that Dad and I will hunt for food for the expectition. I cloth want to foll any enimals, but Dad oxplaned, we are not hunting for trophes. The my club to feed everyone.

We want to a water hole and hid, wait

Ingline same game to come After telline tour, I saw a warbog with loss babas there ofter small annuals. Then an only appealed and Dad whot if The only upped and took less small safes and fail the was nill moving and I was begging Dad to leit here, yelling, even isstering to one for Dad took the handgan and store deedly not be simplify beent.

There hunting!

Aucust to Jim searched one side of a soppi while I wint with Dast to explore other parts of the singe We non rise some babcons. Sig. powerful monkays. They make an ainful receiption and based three tooth, prepared to problem their territory.

Im defing to get used to a Wenc Bab couldning party designer motion using the cause the space became too unnell, 1640 history term the guns and the gas 1 history given the guns and the gas 1 history given the control bab society at 164 history given at 164 history at 164 hist

When we all insaly met at the top of the kopie, Jim, the professor, and Dad put something in a box. Dad taid, it's a bore hat mixbe will charge heroey, but i cam



talk to you about it now Later, when we're sure I was excited

[Editor's nate The Same Belanest the mice there surgicular of the University of old and centrely no mote than 70 [august n r l liel interrupt here mices the had oricogal, has had already of massland second the second second second second ways scattering i tell lies cynys. I will need to an engenetic tell beland to massand tell second second tell and the ways scattering i tell lies cynys. I will need to an engenetic tell and tell tell additional tell and tell and tell additional ways and which will be any scattering and which will be any scattering second second second second tell and tell

Where every a the value free just the indicates the two property enveryous and structures the respective term of the discussion the respective term of the structure term of t

subject of Call will stay two weeks longer, but I must go home and return to school. Heel like everything has just started But even if Marna told the teachers, my daughter is like because she is looking for dirocous, they will seed me

Association I am familiam dispensional of more used that Merin the day is also supplicial. Wany limits in the day is also supplihead to the second seco

In a letter she left in Namibia for her father Mercussia-wore, "Bu bolme hat sometimes you have had encogin and are reach to give up and become like everyone else, someone who noolves a paycheck atthe end of the week. Dad grant me one with Never gate up your deares More than anything. I nead them. De



SONTWUESPROMINGE SE

sponse rakvites that will address that set objective. Another yoon't group of parton age relationsmission that the United States that sponse that the United States strange attached "builties to part backward week to the compare: caps, other Herbern of the secapace department of the back and the secapace department of the secandary time of Data Alan & Hamiton Halabace sames U.S. assopped to becomise a more power in the international backwards to the secapace.

Anisotan goad camps function such the ordinary specially comps. Tutkin is high (pp 6-360 or 5200 time is no ene week session), and oosts can reach \$1000 with aritate Anyone who pays can attend, whether or not he has studied spaces soance. Many kids go more for furthers for the ferming respective.

To enter a Japanese space camp one must usually be a member of a YAC and be presently approximated by a member of the pattern poporation. The patterparts also complete a sports perparational approach to the semulations than Americans do

The U.S. Status Carao at Huntavile funa

Insurance threads the page and - 31 and stage and and Tables at a high-onduction of the page and the stage of the stage and the stage at the thread on a stage at the stage

Al both the Cosmosthere and Japareen camps higheral harmonig lay baptiti early. First students digest a 450 page matrixed on zerong survived, witch in charge the hending of space equipment. Their reaction infrast and advertises are totated and frey learn docut the learnes to large goals califies in space, how to earl in engineersness, and seroors fray will need to do tathy film para grant.

On lose days they load about rocket propulsion and spaceflight and take physical stress and mobility tests while ins space subs. The students take a test



light in a simulator and practice emergency escapes in which two teem members must coordinate moving inversional one at a time from one stroken spacecraft to another inside three foot convosmecue balls, with ruge appeni

The teams study societ propulsion using actual rocket engines and make compute-simulated set, hings of thair own simulated studio flight which will culminate the course. They fly a shuffle simulated to prepare for that mission.

The cases simulator may be whet been down there ferver. The downer is pitchdark made except for banks of pattern students and early and pattern (pits). The student must put has built on mail to any lights. As the cases pitches exacts, the lights been been pitches exacts, the lights been been pitches exacts, the student similar loggers and have a consume except and accessive the errors genose eventually come taken than the uppercent." Imployes, Jepartners with approach." Imployes, Jepartners with approacht." Imployes, Jepartners with approacht." Imployes, Jepartners with

Cur students are isually rever to putto they never hit tha start button issign South Tomsteine menager of the retenational devices for YAC Japan. This only after we explained that they loss points for dying that the students started to finite select here t

The astrocampear also launch model rockets they have built had carry aloft seperate payada. Exemitally the students make a mode renderouse with a damaged satellite using a simulator for the shuttike immend manavering unit As the ocurse progresses the campear audy their studie meson while each practicing his assigned mission opacialto rate of the semilator.

On the last day the crew carries cut two complete simulated shuttle fights with satellife learnings, simulated error generals, and scattific experiments. Alterward there is a complete debrefind

Is the growth of these WGs and space camps a sign the Japanese will make a bid to bacome number on an commencal space technology, is they did with automobiles and consume electronice? I think so, asys buffer. If think we have our heads in the pand if we think we cam marking our performance in space just because we went out motion to ultitle baces while the

They have the tockets and the electonics But the most important thing is epreparing the young people final the trave. The key is having large numbers of young people perpared to move into assess technology. This is when the upanese VKCa and camps are important. It is no secret that their what hey are doing with my program it takes the VCR. We event it they take to us and changes are doublit back to us.

And these not all he says 'Koree is about to do the same firing. They are about two years behind Japan' DO INTERVIEW

CONTINUES FROM IN GE 10

measure flae. He toos on the problem studied it, and learned how to measure the megnetism of nuclei. Students of his and their colleagues developed the techreque much further, and new its a half a billion doi lar industry called inuclear measure.

Orms: Have you fined getting TV to been

Lidentina I attanced a waskend metright TV meri bolcom and social and social and social and social and social devices and the social and social and social theorem and well-mere beatsetiated to the social and the social social and social and social and social devices bolcomercial and social discovers social and social and social discovers and the social and social and discovers and the social and social and discovers and the social and social and devices how control and social and devices how control and social and devices how control and social and protein the Like social social social social social social the social social social social social social social social the social social social social social social social social the social social social social social social social social the social social

Onny Geting back to particles. Lunderstand you're making antimater—the labled substance of science-iction sores......doft here at Fermioh

Ladeaman On, we got hot and cold running antiprotors here. And we can store them (He checks a TV screen) Right new will have four hundred and seventy briten antiprotors and cutaring in our stacks, wattro to be used.

Own: What form does it take?

Kederman Group clusters of antiprotons running sound and issued in the vacuum of a magnitic storage ring. They've moving at the speed of light, or close to it That's how you allow free.

Onw: What could animater do? Lederman Well with these numbers not much i thrik anomation & dever biss any practical use will be as an energy storage deace. One antoroton stores an mate I ve seen is that a milligram of antimatter could out a rocket into orbit. Now tons of liquid oxygen, karosane, or what over fuel they use. The energy storage cally bitter On the other hand, a miloram of antiprotone would take up-well would come to len thousand years of production at Fermilab at high cost to give us a miligram Tomake II practical-say. make it take one year-you have to m-158 Chill

cand Maybe some kid now in public school will figure out how to do that Other How many articrations would mean

up a miligram, then?

Loderman: [his calculates] About a billion tailion, or san to the twenty-last

Ludeman We have this four-mie ring right? We stok in protons. They poin this direction and circulate' We stick in antiprotons and they go in the opposite direction Then we make head-on colsame ring. Head-on collisions are in credibly more effective than the usual thing where you take the beam of path clas out of the ring and hit is target. O We machine our builets colliding in midbecomes the act of the collider. With a larcet you can have ten million collisions fifty thousand collisions per second protons collide at Fermilab, we replicate what happened just after the Big Bang. exist anywhere in nature until ten to the minus fourteen seconds after the Big Bang and approace will say list sale?" a pidding number of particles. The total energy released in less than a meeting

Over: Will they make animatter in the super cellider?

Ledenmar No. It the super collider is to find the Higgs if needs maybe a hun dried times the collisions per second. For that, there may not be enough amprotive, Artisentres that have an issee

Other II the super collidar data that some new physics at the twenty #V level close that maan a lot of physicials will have to overback their Nobel prices?

Leteranne Ward? Chi I soch therk op The Nobil his his very pool moose The bigget initiate was from They gave tim the group was also be was also sold and the solution of the solution of the solid vectorized taxon but the solution of the diameter elements in ready to too any letter elements in ready to too from the solution of the sol

Onve. And on the physiology side you have Egal Moniz who won the prize for the inhuman

Loderman: Well, physiology is clearly a lot harder to judge. That may be why Nobel put physics lest DO

CONTINUED FROM FROM 5

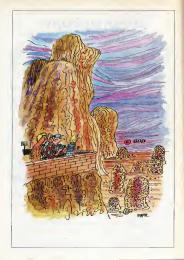
the lever pressing behavior at the time of the lever pressing behavior at the time of levery. The food would peakemently work with the reverse options giving the target oblit a shower of opperme or endophin Statecard (I) han addit miny the oblit methed in the correct behavior consistantly would have been nearently schea Only recently active costs are seponteed on the sentencing baranteet, so over many triels them would be relacient

Take to call hose calls amont calls." To conservations of them action. The more samat calls the taken. The more samat calls the more betwards watching and therative taken. The more samat calls the more betwards watching and therative taken. The more samat calls the more betwards watching and therative taken. The part of part taken he admits is "amin" for any bequaritied by ocurring up watching to be more day to be all same to be quaritied by ocurring up.

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Some sixeristis are inserved about metric clieft, Tria ageri abole interved registration communities horizont in literatiregistratic communities horizont in literatimetric distanting Returnes are abolitat inserved relativity. Buttheme and abolitat interved interved and the butthemetric horizonta and the det of debit intellations inserved in the butthemetric debit butter intervents in the butthemetric horizontal and the butthemetric debit intervents butter intervents in the butthemetric horizontal and the butthemetric debits butter intervents in the butthemetric horizontal and the butter and the butter butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter and the butter intervents in the butter and the butter and the butter intervents in the butter and the butter and the butter and the butter intervents in the butter and the butter and the butter and the butter intervents in the butter

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locked the bag, kept the keys, and marked the pockage to Weber. Two days Mar I got the bag back in the mail T was stat locked, but the book had been removed When I opened the bag. I South a Maissege that read. "Dear Sock--Where do you want to follow me first?"

Ordenarily we dissipative of tabling mage another to be general dates, but source has executed and the set area to any set of the set of the set area to common which the set of the set of the company or mill have the set of the set of the set of the basic account who are basis whi looks aming to the one show on page these and other who are basis whi looks aming to the one show on page the set of the one show on page the set of the one show on page the set of the set of the set of the looks aming the set of the set of the looks aming the set of the set of the looks aming the set of the se

Because of the ternources of the Mok-Waterness given more permission to reverthe secart for the first time to the general public. The solution will appear in this column near month, story within update from the Internet Newsman Starvod no general risk bag changes.

In the meeting, tink about the preciple Kong, in much that it is as ample it can be described over the phone or reveated in a simple illustration. Now they you know locked appeir bags can be opened, perhaps you'll come up with Weber's Yeah' insight yourse!

ELEVENS QUIZ ANSWERS

1 The first manned landing on the meen Apollo 11

2 Boven possible number combiner tons can be thrown with a pair of doe

3. The USSR has 11 time zonos-more

4. There were a total of 11 states in the Confederacy

5 The amsteelse and Worki Wer I we signed on 11/11/1918 For many years freeedal it was customary to ring bells blow lackny whetles, and so forth at 11 11 to a work Meanmither 11

6 Ocean's Eleven (1960) and 11 Her rowhouse (1974)

7 Social and cricket [Extra-oracle answers speedball a social variant that permits the ball to be caught and thrown with the hands, and bandy a Scandinevian toolew carrie 1.

B. The Bible in the parable of the wrayerd, workars trend at the neverth hour are paid the same as those hired earlier in the day (Methew 20.1-6).

9 Erase the letters one to get elevitw Reamance these letters to spell neeve

The Spanish for sleven is once
 Flour, monosodium glutamate (MSG), salt and pepper

Tranka to Dan Shino of Cincinnati and Marcin Garcher of Hendersonville, North Caroling, for there help in the preparation of the cutz DO



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PICKUP ARTIST

The Beensarrung (right) uses microwaves to detect transitions, diadas, and integration micropheses, and micropheses, and diadas, and diada



LIGHT LISTENING

Informations in an annual they are provide a corresponding light, harmond an annual for the provide a second secon

SONIC BOOM

Expression attribution of the (right) listes through walks or do not not be supplied to the set of supplied to the set of

CRIES AND WHISPERS

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РНОТОСОР

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GAMES

By Soot Morris

in noncristication sevents anniversary, I dug up som interesting facts about that number

Except is a prime (deep bloch) by (stef) and a peindrome (numerically, it hads the same ladokwert only peindromic perme with an own number of digs. Eleven is also the first number whose equate (121) is a peindrome

If you want to tail whether a given number is divertise by 11 (whotz doing) long dwntory), add the digits in the odd publicities them add the digits in the owen pontone and subtract here trailer sum from the kinger II the difference is some or a multiple of III, then the original number is divertise built.

Tor example, number the alphaber A = 1, B = 2, C = 3, and iso torth. Using this method, the latters in Constare 15, 13, 14 and 9 is the number 15, 13, 14 and 9 is the sumer TS 13, 19, 12 fee cause the difference be used in the difference be been the odd land even placed digits legals serve 12 for 2 to 2.



Post on your thinking caps for our goiz on the number 17

LEVENS CLIZ

Whill in the connection between each itom listed below and the number 11º (Answers appear on peop 1911)

1-A twenticith anniversary that was calebrated in

2. The rol of two dice

4. The side that lost in the

5 The end of World War I 6-Tike robbery-caper irre, one staring Frank invasa and the Hat Pack, te other staring Charles Sectin Canclos Bengen amos Mason, and Sr John Sielgud

7 There are 11 members

per side in American foor ball and in what two offer major team sports?

8 The taskerth hour means the last possible mament before a deadline in what book did this phrase find appear?

9 Eleventwo Starting with this word combination can you 'prove' shat 11+2-1=12?

10. The teacher asked "Can you spell the Spaniet word for Aleven crice?" The student replied, Yes, you can "Why?

TE Colored Sanders boasted of the "eleven so cret herbs and spices in his Kentucky Fried Chicken (KFC) William Paurotatores for his 1983 book Big Secrets commesioned a chameal analysis of the promised seasoning thet is sure to KFC franchises. Poundationa found only four ingredients, none of which were heros. What were there?

OPEN AND SHUT CASE.

In May 1985 Einsteedeerd Omerinaaties to Michael Weber the magnasi who created the Boomening Band—a marwebus start of finging a nubbir bend off your fingers so that when Uhis the floor if role back to where if was learched

Webber fasz árhovsed mei he Boomerung Bord nr. 1984 A morte impessione nr. 1984 A morte impessione her son and a morte interparternate That inservice and her a migra places a volumlear a migra places a volumher a migra places a volume a volume her a volume volume a volume a volume purso The volumitee operer purso The volumitee coperer purso

Altho convertion Weber was sating the teck, which included a small con purse a twp particek and lawy and a sheet of mahuctions (This was a closed trade aucherop or the secent was safe) (bought one When I read the "method (paragraph and looked at the single accom yaw drooped The technique was so simple so obvious

As Weber recalls, 1 ittle appened purse with a cow a hand open the case in a strance way and drop a non made When I awake

The materies must live watch

Early on, Weber reaking nia First Bank in Long Firsch, When I say the right deposit bag. I knew it Weber reked the belier to bag on the counter with





these baps, which people

peny that makes the bacis successed two ways that soned to solve the problem saying in effect. Thanks for nothing more Avear later I croussing at my bank had

California in the audience zipper putse trick and its. instructionally realized that

Weight tails his story '1 locked beg and welked He was only there for a made He was shocked of

used by the IBS throughout vious to Weber's technique

In addition awary banks

Weber's method. A lew "Dicay, mracle-worker tolice you anywhere

VIDEO SCANS

GAMES

Gras 2001 Renegate compare halosis social foro synapsis by wing ther gay metales in the wat cytaspace of a metanical computer network. The utmate compare interaction as consistant neo-sepanding modifies between man and mathema for bayout the halocino between the halocino the halocino with the target was and chan mig has carefuldiants with the factor owned electrodis

Welcome to the world of science-fiction author William Gibsons novel Neurosancer (Ace).

A grand-start winner of the Nebule Hugo and Philip K Dock sevents Water does in Gloponia Network water a sevent sevents about the sevents and about the sevents and about the sevents about the sevent sevent sevent sevent about the sevent sevent sevent about the sevent sevent sevent sevent about the sevent seven

When interplay was tandowneg Akuvenacer into compute entertainment, Sobias guru Timothy Loary was an orthatadate cheenaade. Via a terch 1 urgod (lettoplay president) Brain Fargus capture the language and lawor of Gaboon Lusey says. Many of the phrases names.



and positry in the game come clearchy from the novel. The literary level of Assessmancer is a high point in computer games. And the great hargins that you are a hacker playing it. That is the key to the whole came."

In the Neuconarood many Neuconarood characteria of Doei Fillerina using a hayboard of popsibility to control this on-access about the control this on-access and the Alem Mindbeckson and the Alem Mindbeckson (Controls Fréchard (Windbeck) to unover the header halo popularies traditionary (169). To unover the header halo accelering and another security pregnants through accelering and ontrogenous heads entered that popularies to counter accounting and broads more accelering and broads accelering and accelering and broads accelering and accelering and broads accelering and accelering and accelering accelerin

A mat Neuromanoli game, boweer, would probably kill or mem you o maybe give you a mild shock it you lost. Gloson Report in antibase into that Report that you can actually play " diason how ever, doesn't play compute games in fact, what he words the novel he ddn to even own a personal computer "Maybe that's why lease able to bring a some of worder to computing" he alexis

Technolimis saids the Asuonaneor gaine sugpass and often capteres agtes and often capteres laborate evolves time capteres and intrasa Andi di protectore evento tecen entratarrent. But o protectore menotecen entratarrent. But subo can otto maviatate Rotest in the board gaine Rotest in the board gaine Rotest in the board gaine Rotest in the board part if of the personality of the distance in the part if of the personality of the distance in technologies the distance in technologies an electronic site opport the distance is distributed and the internet works is distributed puzzles and batting ag gressrve toes And typically, RPGs require 30 to 100 hours to pomplete!

Among the molt popular PRGs as The Segnitic of PRGs as The Segnitic of and the Segnitic of and the Segnitic of the Sec of Selfs in The Advertures of Loss, the second and sectory special for the Network Description (Advertised and and Description (Advertised and and Description (Advertised and and Description (Advertised and advertised and Description (Advertised and advertised and Description (Advertised advertised advertised

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LAST

By Sean Kennedy

 Think of the results we could achieve if we attached every exercise bicycle in the United States to a power generator. Then we could convert every track to a treachrul and watch as calones tum into kilowatts.⁹ Tau de Naader de La Charles Sala La Scaulte and an Diseasa porte non destator and an Diseasa participation destator Therapid of the scientific community tass well to replicate life husion work of El Santage Pors of the Lynosaky of Lalas B. Santage Pors of the Lynosaky of Lalas Peerhaps the receptor on the piece certy in USan J While the Jury's off out (

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