

WALL STREET: 2086 · STARSHIPS · MODERN GHOSTS CATCHING COMPUTER VIRUSES · THE BRAIN-MASTER



EQTOR IN CHIEF & DESIGN DIRECTOR, BOD DUCCIONE

PRESIDENT KATHY KARTON IDTOR WERCE ADDROFT EDITOR ALLARGE DICK TERES GRAPHICSDIRECTOR FRANK DEVINO ART DIRECTOR MAY BUSIL FR



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By Abraham Pare

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Meanwhile, scientige.continue with this untimetheld 6 denoise, sying to pick store of the secrete the God will carries a the peckles. How insally movin? Dod day tenses, DCI

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CONTRIBUTORS











n 1960 writer A J.S. Ray/ underlook the

which to appear in Ovors, Ray reports on The diseases progress seems to be halled Ravi notes, which dashed hopes for her battle against the cheakse

Dertmouth I was immediately intrigued not

in War of Winds' (page 82) best selling supporce when John G. Fuller tests of universities at Oklahome how in coming decades we will allor the

harrowing day in 1985. Brooks Peters 100 years hence in Wall Street 2095 influence of puttent superpower countries.

the passible replacement of Wall Sheet investing seems to come right from the

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IFTTERS

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Although I do not velocate Dermart of notatious motives, I bolieve physicians should be the last group of people to be enhanced with this decision. Perhaps we should require a judical accommised case, with due consideration i wate only case, which due consideration i wate only locates a unity the believeration i wate only to rate a web-that of caution.

> Kenneth Larsen, Ph D Modical researcher Saft Lake Ody

Fool Play

Used Instanted your sports guize (The bernship all 2004, March 1986) and I am disturbed by your grading system I am thoman as a system mit barl posed 13% ports and assert being calabid a old who doesn I how the difference between Pres Rece and Wayne Gestoy, Juan because Pater Leberneth and I have slightly uldisioned equipois doesn't mean 1 free home meants.

> Ctris Otla Anahem: CA

Blaming the Victor

While Lengwed many of D. Carleton Gagduarkis Inscugits (Interview Match 1966) he is obviously less than chartable when it comes to weaths of succidal urgas. It may be thus that succes by rational choice ought not to be discouraged or pundhed. But by les the mojority of succida datents are made by the inspend. It mentally if, and the depressed.

But takes indexide that of those people prevented from committing suicide by leoping from their himitaction. Galatin Suicide Braspic anity 4 participation of the Caylunosi, neuro fails watern for a suicidal depletation neuro fails watern to a suicidal depletation during which the media science of his own persuasion who is eager to help him reaches with a suicidal science.

Gionn F Cartwright Ph D Symsys Technologies Corporation Montreal, Duatee

A Christmas Story

Two models balance my first balance due I read "The New Art and Boendo of Narwy" (Docement 1960) Chi Christman Die our sen was bern Unfortunality. Ne wos five weeks permittue and had hydrine membrane diasses (a neupratory disease) He was transformed for Prinzipy Children's Medical Control. where he was howen automatidate.

Thank you so much for your informative and dealy written anticle finowing white to repeat when we went to see our son in the infoar intensive care unit certainly assemed the transmark and helped us chast with what must be one of the most difficult image a parent good shough Curtoria now doing were well and has a beatter and charen.

> Kristina Hill Nive York

Sex Selector

In the article "Betheed" [December 1965] here was a large photograph of a continuous particle electrophones machine with a photo caption that read

¹ sperm bang soverned for sex selection before festilizing logg 11 developed this initialized for 307 to 1984. Reades may conclude that the instrument successfully screens for ask selection. Sage sperm from small sperm. Therefs log experimition small sperm. Therefs the section the secret streent.

Rataci I Tejaca M D Dector of Reproductive Biology California Insense for in Wto Fertilization Newport Beech: CADO

DIALOGUE

Forum

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Deexclassied?

These are many ways to fault Petercean Dysons and/or (First Word, Potnuzry 1966) but i will confirm my aspurrent to his fuderous premise that technology is in gif of God. It is this premise that makes the rest of the assurement coosebale

Balacely technology is applied technology is a bridge between behaviour constructs and the business of production What then is the given it can be acquired only by those who even the effort. This optimical production are as and extension because the effort. This detincts are the property of individuals no materia of the panel.

Unfortunately this fact is derived by many governments that ited a mans property as a mitidal product. We should not give the Sower Union (or any other total answer bittely our technology for the same named that we should not give and and content to a management.

> Christopher D. Miller Editor and Publisher Ethor/Or Box 560 Fast Longtheoriew, MA

Lass very daturbed by Dyrene Find Wood How does the United States "constain the fixed states globalise when the present solunesistical globalise when the present solunesistical is thing to exist out an enable of temps have provided with a mouth of temps and to the workin-money tools, and information. Large numbers of reenvolution stuckets attitude our obligate and universides Donthese things could?

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hast work by men. The producers have a right to charge what hey want for her water or to realized it before own wer. The world cleas not have free access to cur technology my more than we have access to its incrimetagy.

You must have tools to use technology. The ability to mechanic metal is a basic building black of industry. The cost of a single table in a machine shop can run from \$6.000 to 550.000 or more. Knowl adda is chack to basic at and

foncham, NJ

Professor Dyson is mistaken when he says we shauld share our technology with he not of the world. Serve countries people are not ready. Other countries if given this information would either use it to their own geats or start against us

Dypon states that the Soviet Union and/a capability in order to registerise with us. It is downas that they cosh downance taken then equality and will use locknot ogy to dominist au 1 agree that technology is a God given git, but it should be used responsibly and intelligently.

Colleen Trase Valley Center CA

Most bachmakly maned pappie are sechnology in a positive way but low wonkput. Dysonalogie is batured in one pandgraph the laute technology as the second most important (pill of God and free mmandately takies i was gared from through constances of means

I surely dant understand who Dyson hinds we housd bardwo hau gift on his honds in Russe and Dhea Wo Hea every ofter monor have lives about such colationation. Exercise cheares as presently on his for the same Bent apa the profession sound of worker-whyce the heigh panalae lives sont of worker-whyce the heigh Presman Weichtig Freeman Weichtig

Lapplaud Dyson for his courageous verves on exchanicogy. Since President Plaagaa assumed office in 1981. Here has been an increasing landency on the part of government leaders to insume a policitionel policit or corres to international table. During these list se years the trade barries that have been erocito between the Soviet Union and the United Sales have come to reflect the indexingly inflation and health stance address by these two autoropowers.

Unfortunizative, Dyson has bacones something of a lone with a societal who is which is lacked the namew wave of both poincares and transf widelscalar. I had it retreating that one of the death which a locity popular optima and onli for a correlation measure that would bring passete bit the would bring.

> Robert Schwartz New Heven, CT

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Preemon Dyson replets: I am glad to see that my whole made so many people anyy. That provisis that I and something northwal. The purpose of writing is to make people three, not to make everyorie that alive DO

WHAT EVER HAPPENED TO EDMUND?

EXPLORATIONS

By Enk Larson

A set in a pert hours thurting the perturbative of the Dimund Searcher Carlot by a period of spring on the negatives. The calling internal war analysis and reach their the track and reach internphone for analysis method was been their tag bas a characteristic and analysis and the track of the track

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Edmand how you we changed

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In those days Edmund's catalogs gushed with enthusiasm www.vng.to is own essense ond ano headline in the 1980 book to you was writer. The ad went on to caucian that pavents adhibite oould be passed on to that total. So parents be careful a fivou don't like it yoursef hide your classe hom your children or even botter develop a living for a because melle and huw MMT CGAN BE FUN.

Then in 1924 Noteman Edmund intered and installed Policeria as possident in 1980 young Edmund experts loave his mark, loanched an assault on the althoun yoppe market. His spht the company's babling into industry and consumer philories and published a based new one philed Robert Edmund a

The Pobler Elitrand catalog was telepteppositiv compand with the previous generation of obtiologis those bazanes of diversing and catalonations—even. The new catalog displayed city into driss terms on sets large and used objets. It predident on receiver and the sets summer pathones and catrini generating. We similar diversing from on generating was similar diversing from on generating and way generating their on generating and the diversing from on generating and the set of the diversion of the set of the set of the diversion of generating and the set of the diversion of the set of the set of the diversion of the set of the set of the diversion of the set o



Of an expension perturbative and ForFlay

to do with science: says Robert Edmund There were times when we traded it as a rubber-band rule—we shetched it for three we read b loved.

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The rubbee-bard rule inserver seems to have survived. On the page marked econity in the 1666 cetalog, you can read add to hundourits and menne support breats. On a neighboring page an ad wive "Heighten the experience FoxPlay semala Jubecter was created to enhance protoing and heighten you (descrine-

Show but don't fell, ones another ait departing a photo of a woman doing the back feat and wearing a bien top "Spencols electre breast forms til out today a active women's clothing

Enrored existen that intrifere reprebatics a coartifer provisioner of our the convertional knowing og i physicana use. And the leasts he saw, are the same provincic tomis that a docker right recorreser of to paeters who have had beaus augury. To hai and they have benefits interest, he says. That's where the nubere band rule comes in thirk, we can strateful a scorarthird. Beasdes he adds the products not physicil they add will **CO**

COMA COMFBACK

By Leah Wallach

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The fills prevention income to assess some obders receive to the operation data of almost adapting the considered with a fill of the University is Cooperuption. There an contrail break will determine operationally if its optimized and the operation of the operation. It is needed to contrain the set of a distribution of the an exact the level of adaption to the interview field come a source of them are optimized and then the come a source of the optimized to the optimized optimized to append to a source optimized and the top optimized to a source of the optimized to an added to any field to append to a source of the optimized optimized to append to a source of the optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append the optimized to any optimized to any optimized to append to any optimized to append to any optimized to any

That is what Preeman hopes to accomplete with its two years program. At the and of two years doctors not involved with the program will do a "blind" evaluation of the results.

Because the patients investige are soimmetry involved on corrol anxies. Because them merical health will do bo backed. "You will a reflect the gashy of their keys?" Netro asks. Mot a tipestificit this constrained in the merical term graphics/b, the asks. "Not as the patient independent an information operations at an applicable, the asks." Patient in the ask of the patient independent they applied by neglectuated grown and have with them?"

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PANTHER MAN

EARTH

By Enc Mishara

ack is persent days. The swamp degrees a partitient days the swamp crying beby boy from this mother is errors. The boy grees up to become an "man-partitied" a wild oatske precisite that control south Florida's Evengliades, increating an all fours.

In the modern version of this tale, a Wesham contract veterany with sheaping is the back and soul tacked a man san perifier through the unake informed within the moved with catilia skalish und out like a parties and solved his clothes and skin in painthei unne acquiring the animals secret.

Unlike the earlier man-panifier though the Valexamivations is easi. His name is jum McNulein and he has waged a guernia wer to save the endargoed Florida panifier or ecugar, and its fragile Eventiades home.

MeXA with the intersected detension dates back a decade when pagued by nothreneal meterosis of contrast. He diverts to advance timeled semislawing and wereform from bid by por Accounty meterosis and the semislawing and meterosis and the semislawing and meterosis and the semislawing and a factor of the interview of the factor a factor of the reference on the newspace with the reference on the newspace advector the reference on the newspace

The partitiver McMullen explains, was a feationer production a proud loner, which struck a chorel of empathy in html. He just couldn't accept the netion of isotenetion.

To dreve a starght time on a map from my homitown of Stretes, ill may to be benighado, plod my backgrega n an old yellow Mexerck, and drave fined days to Energistatic City' near say. Althe time I didn't have any older roke of what i did when is porthere City i homited with the cit. I had to see whether the animal had becam the odds."

As tilling out thed

After sel months, without any of the , modern accountements of animal tracking McMullen caught he find momentous 20 OMM gimpse of a penther a lightning spack tapa-colored male. McNullen named him Stalespeare in homage to the band's fuid, rhythmic verse 1 had succeeded where others had.

"This successful where others had felled. MoMuten says, "and I cicl it whout an boat, every burggy helicopter tranquillet gun or table-telemetry gear 1 of it alone."

It dich t take McMullen long to become a first-rate naturalist, deeply arbined to peripting claw merks droppings, and game kits

Using this thermalist approach the include 3 thisbagener for say years i the lived on the casts Everglades larrary for weeks at a top somatimes covering to make of mucky greatened, their torough the apple day. Endung sveitning in a origin day. Endung sveitning thereasituse and castrying great a intel lies projection. In a langical with basis ratio envolves and langingtors.

Most important, he assumed the characteristics of the panther tool walving birefold over gravel and agged acids be learned the panther is shart light-



Exercisions partner not example

looted step. Grying out until his throat went new the mimicked the female pentheris impassioned methology.

T was trying to be a partition-notally McMullion ways. It was trying to divoto myself from being human so I could parentrate the animal's soul.

Dee day according to McMulien he and Stakespeare looked eyes and the dream of allowly came true. The 150pound cut regit field long from the rose to the top of not a rest AlexiMerr into costaley. "I wanted to reach out and run to Stakespeare and circlasce hint, Notwiden aways." Learned to feel hef participations was an authed to feel hef participations."

Soon after Shakespeare disappeared without a trace Bur MoMalen wenton to take 25 defearer Flanda pentiess wentying their existence tencogh poweries and offse physical signs. He visual signifies of the furtive paintness new take reactly 11.

McMain, who in on kept Brakespace to who management as a control to a control become an outpacken creater and a control factor and packet creater and the control is not an outpack and the control of the outpack and the control of the control of the outpack and the control of the control of the Charter McClaw-Mill Papelsades and the control of the control of the control of the Charter Million of the control of the Charter Million of the control of the Charter Million of the control of the control of the control of the outpack of the control of the outpack of the control of the control

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The parther McMuten says "in a messenger conying a warming to man it the parther disc out the Exergisates so not in water lood, and oxygen will de out too Turn enveronmental types uses like the Everglades into a desert and the human mate will become an exchangend species as well. Od

MARSQUEST



By Senator Spark Matsunaga

The round ling particle to Main should be not any there years the should be any there years the should be any the should be any the should be any the should period of when more than the own period of when more than the should be any the bear weak an energies be any the should be any the the down be any the should be any the the down be any the should be any the the down be any the should be any the the down be any the should be any the the down be any the should be any the the should be any the should be any the the should be any the should be any the the should be any the should be any the the should be any the should be any the should be any the the should be any the should be any the should be any the should be any the any the should be any the any the should be any the any the

Remarkably the sociario was down in some 30 years ago in social 6, backsoban of Mars, writen by racket geneer Willy Lay. The book not olk demonstrated Willy Lay. The book not olk demonstrated with softmer some backsoin and an annual of the termined social generation in which Annonan manned social generation in which the termined with the social generation of the Eightees and the social backsoin of the Eightees and the social backsoin. The offeences is full back in 1666 the advice pol formal the shutler (chi think and the shutler) and the space philterin as component of a backgor plan is memory more than the table shutler toward the space shiften but there is critic taken of parts (D March Hon Harry Mark waard) up backing the components while abornaisment the mission?

Britisch From the bagrining NASA plannes sheed Von Brosins soperations for a Mass ensister as the privary target of our assesse program. But in the spring of tHRI John Kannisty needed a rolevaly cack and dwindle space accomplishment, while servi NASA rooing to the moder indexed.

After we trially got the moon name out of our wystemics, NASA, led by Yeo Bhaun, hed to restore the organia goal is 1962. Wen Bears proposed a material to the start depart on November 12, 1981 reach Mans on August 9: 1502, and retern to Earth on August 9: 1502, and retern to Committee appointed by Prevalent Network



Mass the goal that propertied both space programs. The Russians and momentals' We knowl away 22 DMM

Io isatilativ objectives in space offst the Apolo program. The naper othered three others had by Ven Baums Mara imsean with six hulling and space status by the program of the second object postported the Marin macro until the lab as fighted. Deternitives included any the space devolveming the indexist budget paid the network will have needed as three oppones and choice only a shutta

The simple that 1980 decema caused or paper polyamics any more integrating under a Murdle fuel assumant to an end of the simple barron relation of the commence and barron relation to commence and pervegand to access the relation studies to the simple simple simple simple pervention of the simple simple simple simple main and there appendix the simple simple simple main and the simple simple simple simple simple main and the simple simple simple simple simple simple simple main and the simple simple simple simple simple simple simple simple main and the simple simp

The whole program is a cut heles The environment of the second by instructively very converse promote by environment of the second by when conclusion and and being the second by the second by the second by and a fertherest convert of a second by the second beam of the concernent provide by the second by the second beam of the second by the second by the second by the second beam of the second by the second based by the second by the second based by the second based base

Court of the answer of the advancement of the ad

SAVANNA SYNDROME

LIFE

By Frank Kendig and Lisa Buck

Theses a group in Tapona Park, Maryland, that warts you to stop moving your aver. Galed the Frustman Network, it claims grass tools barrow the grass which terming 1, way pain when you cut, it it is impossible to result be grass which terming 1, who betwee grass has some set of compositions

The idea that gross foois pain may seem prepositions to util the group should not be discounted. It is probably the only organization in the United States actively opposition to isems those mancured symbols of small foem and suburben the

In the Unded Dates advant server twen are some 46 million teams and papered bigather they take up 25 to 30 million actes of woldman. The average 1000-squase-boot inclama. The average 1000-squase-boot her cares 3000 to \$500 per year to millifam—provided you do the work yoursel? The same investment in a food gender would yead mans than \$2,000 worth of this 12 and yougstation

So why do we do £? What possesses

somene who owns or renta an actual and to devide three quarters of a to green well-three of atom-coopped grees? Is our love for lawers the tested of our callural hereitige. We the neckse and decoursesion or is it something deeper is campore from a three we watch for all fours or Www.g through the trees?



Is our lowe of lewiss programmed into our genesi, or is it just a cultural habit?

operation at the rear of his residence Americans cocked this status fix

The golden age of the lawn howevel, came a cettyry later it was then that technology unleasthed one of ta most unlaung reventions. An WHI English publication thad Laples Companion to the Alover Gauden amounced it. 'N substitute for moving with the scythe has likely been inflockated in the form of a troceno matchine.

But car tescretion with teens could have began togging betwee the Models Ages according to John Fak, a tean Isatem haved according the site of exactly of the threads and the site of exactly of the have according to the site of the site have a site of the site of the site of the have a site of the site of the site of the have a site of the site of the site of the private beganning on the greenblands of Loss Anna.

Fak began taudying lawns because twy were as convertiged and to denety connected to humans. "They are omgeneent islatively simple occupations and I though 10 have a good there of understanding how humans mode an impact on hem." Te explains

During the double of the study, Fels continued to be the total double quartteel two in suburban Maryland. But unlike the asympt suburban has collected and weighted at the grass duppings and control and double the state of the over discribing the the method. He even discribing the arrows and then at loss to move the water generator form one section of the layers of avers

These were leaves to the thoused years ago in Chris and these is party good evidence that the Mayara and Actions tool hans. The large T You look a toolte of the early dowings of Monawi velages there in manage of grees help party only afford to could get two teams in the tax the short. To could get two teams and the result was observed another the short of the parts of the company the toolgood landscope most like laws, and the next

Fails believes that humans may have an imate protection for savernalike tension commute protection ac

How to read a newspaper

by Walter Cronkite

International Paper adual Obhrer Corollan, for years telestaric fareroor roots oxidencess, and an anders admonte of the need for a fine people in scenain fice, by keeping fully inferrend. Is to fly you have your tooss jupper cars help you care to be baser unit years work deals date.

If you're like most Americans, you try to keep up with the news by watchare it on television.

That's how 65% of us get most of our news from viewing 40-oddmanutes of TV news broadcasts each day. The problem — and I

The problem -- and i know the frustration of it firsthand -- is that unless something really special happens, we in TV rease have to put severe time limitations on every story, even the most complicated and important ones.

Get more than headlines

So what we bring you is primarily a front-page headline service. To get all you need to know, you have to flesh out those beadlines with a complete account of the news from a welledired and thorough newspape.

Is it really necessary to get the whole story? Dorothy Greene Friendly put it this way. "What the American people don't know can kill them." Americ

News people have a responsibility. And so do yos. Ches is to report the news fauly, accurately, completely. Ynaws is to keep yourself informed every day.

Fil never forget the quotistion hanging in Edward R. Murrow's CBS office. It was from Thoreau, "It takes two to speak the truth.ine to speak and one to hear."

Take a 3-minute overview

Here's how I tackle a paper. For starters, I take a three-minute over-



view of the news. No need to go to the sports section first, or the TV listings. White way working working get there quickly encough. First 1 scan the from-page headfines, look at the pictures and need the captions. I do the same thing page by page front to back. Only they do 1 go back for the whole fease.

The way the form page as "made up" tells you plenty. For one thing, herefine type are will sell you how the paper's editor ranks the stores or politive ingregations. A major crop failure in Russia should get larger type than an overturned truckload of wheat on the Interestite, for example.

Which is the main story?

You'll find the man or lead story in the firthest upper tight-hand colum. Why? Tradition, Newspapers used to uppear on newstands folded and displayed with their top right-hand junter showing. They made up the front page with the lead story there to ensite reakers. You'll find the second most

You'll find the second most important story at the top far left, unless it's related to the lead story. Do you have no read all the storese in the paper? Gosh, no. But you should cheek them all. Maybe the one that appears at first to be the least appealing will be the one that will most sifict your life.

News is information, period

A good newspaper provides four base ingredients to help you wrap your mind around the news: nformation, background, multis and morpreation Rule 401 of American

Note #1 of American pumplism is "Now observes are searced only for news," What a news? It is information only. You can tell a good news paper score, it just reports the news, it closes it try to slort it. And it gives you both ades of the score, Lack out first alter of electrones

and saverbs. They don't belong in an objective news story. They tend to color and skint it so you may come to a wrong conclusion. Do loads for belongs, darshoes

Do look for by-lines, datelines and the news service sources of articles. These will also help you judge a story's importance and us facts.

As you read a story you can weigh as transhiness by asking yourself, "Who said so?" Lock our tor "facts" that come from unrearned sources, such as "a heighty pleted government official." This could tip you off that the story is not quete true, or that some - unsailly in Washington -- is sending up a "that ballooft to see it something that may happen or be proposed gets a good reception.

Another tip: Check for "Corections" items. A good newspaper will straighten out false or wrong information as soon as it discovers its error. A less conscientious one will let it slide or bury it.

An upside-down pyramid Reporters write news stones in

receivers when eleve souths in special way child the "howeved ways and the second deal ways and the second deal ways and the second deal ways the second deal is the south in most details in the selling or warming of most staways where you sunally arear at the beginning and save the chimax for ways. Knowing about the newsropes' inverted pyramal style will help you sift facts.

A well-reported story will tell you "who," "when," "when," where" and "how." The best newsopers will go on to tell you "whp." "Why" is often missing. And that may be the key ingredient.

Many important stories are funked by "salebors." These are supporting stories that office, not news, but the "why"—background and analyse—to help you understand and evaluate it.

Background offers helpful facts. Auaysis frequently includes opintion. So it should be—and usually is—carefully labeled as such. It's generally by-lined by an expert on the subject who explains the causes

> These are the kinds of averat you can find an the fram page 1 begave arry 3 backprosed, at saker Also analysis and marphetasen. What is all about Latikack may a here"



of the news and its possible consequences to you.

No good newspaper will mix merpression with "hand" news, either. Interpretation goes beyond analysis and tells you not use what will analahit largeen, dur what



"TV mean concernse, its posed as it is has some humanicus. Time sign by quickly, it respects the largeh of such more card the member of strengt the ours court: Ag and mempaper cars carry memments; and give you considerably more detail."

ought to happen. This should be clearly labeled, or at best, reserved for the editorial page or "op-ed" (opposite the editorial) page.

Form your own opinion first

I form my own opinion before I turn to the editorial page for the pundias' waves. I don't wint them to tell me how to think until I've weekled the issue through to my own conclusion. Once I have, I'm open to other reasoning. Ress the temptation to let them do year thinking for you.

Here's an idea I firmly believe in and act on. When you read something that motivates you, do something about it. Learn more about it. Join a cause. Write a letter. You can crossmith yone on issues by writing letters, particularly to your Congressman or state or local representative.

To understand the news better you can also read news magaines. Bools help ill in the holes, tox. Damgather Mengammer dos screen plen more people feit that the chelp plen more people feit that the the chelp plen sore people feit that the two could have gotter many important new facts on the war from the bools coming out at the time.

Pick a TV story and follow it

Now that I've told you about the basics of getting under the skin of a newspaper, let newspapers get under your skin.

Tonight, pick an important story that interests you on the TV news. Dig into the story — in yoar mewspopt, Follow it, and commeto follow it closely in print. See if you don't find yourself with for more understanding of the event.

And see if you don't have a far more sensible opinion as to the "whys" and "wherefores" of that event, even down to how it will affect you—and maybe even what should be done about it.

Keep up with the news the way my colleagues and I do - on TV and in the newspapers.

Learn to sift it for yourself, to heft it, to value it, to question it, to ask for it all. You'll be in better control of your life and your fortunes. And thatk the way it is.



Today, the penned word is more vitil than ever. Now there is more need than ever for all of us to read better, white better and commutante better. International Paper offers this series in the hope that, even in a small way, we can help.

If you'd like to share this article with others, we'll gluly send you free reprints. So far we've sent out over 21 million reprints of the sense in response to request it mus profile overphysics. Dublicking has now published 13 of the articles in a book, tuble! How au Use the Poscer of the Primed Werk? For the propertick twemen, send ta a check for \$355 made out to Dublicking. Write: International Typer Ca, Dept. 152, PO. Box 954 Musicon \$5, Son. NY, YN 1001b

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COMPUTER GRAPHICS

THE ARTS

By Robert Rivin

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Using Pactal geometry to re-presse nature

Mandabata and Raharu Kasi Indoadi Hakwa and Natamania wan began Jabat na yaka aga wikin Iniyi Atarnati Abat na yaka aga wikin Iniyi Atarnati Makata awa ku banng Mandabata i Rahara aya ku banng Mandabata i Kasana atara aya ku banng Mandabata Initi Kasa aya ku bang di antara atar kutaka ang di antara di ang di antara kutaka ang di ang

Pictovaria tomte beer an uncarrey resemblance to an actionalimityl rich vallety of forms found among invertebrate obgenismin. And his program charabe there observes without using the hundhood of ideationic required for meny of the methol forms that resemble notes.

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MAGIC MIRRORS

STARS

By Owen Davies

The set of the second s

Yet suddenly the Specer Telescope beens loss of an advance than excitopen beensed in Juan advance than excitopen ample adapter modul general Galinh Teated deservationed to see ample advance and period advance to the second of the period of the second advance of the version could give the emplex strengther wers in Could give the emplex strengther of Mourt Periods.

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Similarons active marcin addato 19 smalaronas cado molacterg part of the mage captured by the trileccope is image adstation caused by the strongphene and state leadowne admats and called peacetecine actuation move each more to compressite the obtained memor to compressite the obtained of subanages combare to familia angle scalar progenities in the state.

His version cost between \$50,000 and \$40,000 build but he says a beckyard astancerar skulled in working with electronics could build his own version for sens of clatars. An amateur with a tillmisor compensation device could get pictures as sharp as enything you can get ben Palomer. Smithon sevs.

The advantage of many minutes is that free compensation for the non-advantation diations caused by the almosphere. Parts of the astrosphere area werner or cooler free mechanisms, we get a strong software pass (heaping) in a cit hay may be ben't a kite more or less than coups only a free less away. When the light amount all the lessoogen, the mange that originate the elementations is been as it is been as internations in been as it is been as the more them as the strong of the lessoogen. The mange that originate the internations is the strong of the strong of

To make the mage that again reach of the 19 minors is lifed to compensate for the stream of the state of the state get the stream of the state of the state you would hope to get if the telescope was youwed forth solare.

He recently tested his active minor for the left time, varing a large table telescope at the National Solar Observatory at Sacramerico Peek, New Mexico Its images of the sum were five terms clearer than the sum were five terms clearer than the sum were two terms clearer than the sum were two terms clearer than the sum were two terms clearer than the sum of the sum terms clearer than the sum of the sum of



Space Relescope: Can rows/s equal #?

those pictures taken without the device

The ladve ment date suffit from one immatch that the Space Treinscope does not. The mage detectors that context be many segments are sensitive only to bagin sky objects. That means for how the telescope can be used to study only the same text in the future that set of doubs it will ever work with objects dimmer trains to well's magnitude which eim rules most oursease and detailing galaxies?

These are assonances who would say that here is nothing intensiting to see at that level. He says, but the metor can still be used if these is a bright object mark the dim one you want to toket all if the two and object mough the minor will convect thous to the dim object.

Le trey trever, osquip valende or we historial Salar Orevenary, innex tremerers useful enough lainaday. We requir at au annuer trever trevenary ground boord solar assummers. In opporting on anuales trever trevelativy trevelas annues. A au mounter trevelativy methods annues a familia mounter trevelation supporter enough and solar assummers. In supporter enough and solar assummers of the same at task that unter solares has been descretely at the productive.

While Brintheore present model is juit a proception and is shill being tested. If chould be ready for astronomers to use is about a year. In the meantime he and this collegues are nearly final test with a more sensitive image obtends that will enable them to do ingrittme astronomy. Getting that indo generate use will probably lake another three wate

While he according applicates once of the Sacce Hospites in Archert Sentimon date individual is a notice ment. In space of a to of suff printed accurs how the Sacce Applications in a subaccuration with where to serve than the ground again it really and the simplimany. Sac here in ground go to should also applicate sometime to the fact of and strategies and strategies to fact and strategies and strategies and strategies and the strategies and the strategies and the strategies and strategie



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COMPUTER VIRUS

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The has true to program is called the callot of concurrence opportedly, an oncome the "influence of graphics address beater." It is supported to otherpeen her images on his comparts to be doing a this surfame all get the program indexert appear. It be an accent approximated begins has seen in the set and as deguase as incremal approximated begins the met law of abless the discuss purpore passe. Gauge from one claik drives to her next, it methods advisered to accentrate and begins in the disk drives to the method accentrate and begins the indexidated before advisered to accentrate and begins the indexidated before

Then corres the massage written on the screen in glowing green letters. Are Aren porciw.

At that the revise computerion down't goap the agent cance of the organization of the second second

The disk kills: Tass shocks again Bernerium performs house and ad mass away or paid adam the server (Tars on one) of encoung), the programmer who created the das killers a dhuck ing the assessed and hexaes it and the needs a form to prove it is everyone also. The hundleds of computer kulters boards and in our type and the board. Using a phony name will displayed random the olds the boards board and a phony name will displayed random the olds the board. Using a phony name will be displayed random the olds the board board and a chores the displayed random the olds.

People tamilier will big computer systeme have known about dak keiten er a long timm. Barke, mausterse sortenenes and mitary installations have leared the day when a dag united progremmer would cause a computer system to collapse by de stoying information stated on delos inprg up computers with conserve programs, or using computer networks to speed as detructive program from over regional office to another by amply bring the computer to match toog's date openal a kiter opprans predetermined date to practice toog's date openal a kiter could be newings on a former amplyaria computer water pay after the or the here out of been fired.

Now, which the increasing useral comparison backets have a provide a set of the second comparison owners. A more glueenzage problem to severe consulting lives of dischalar programs the way the real dischalar to the and waterd or consult. The disk billings come in backets of useral waterd or consult lists the disk billings come in backets of useral waterd or consult in the disk billings come in backets of useral waterd or consult. In the disk billings of the disk billings of which constant with a bagement to segme the disk billings of the disk billings of the backets of the disk billings of the disk billings of the disk billings of the backets of the disk billings of the disk billings of the disk billings of the backets of the disk billings of the disk billings of the disk billings of the backets of the disk billings of the disk billings of the disk billings of the backets of the disk billings of the disk billings of the disk billings of the backets of the disk billings of the disk billings of the disk billings of the backets of the disk billings of the disk

Another type of livins, the software virus, earned its name toy bong moter endouse. A program constaining virus can be used without incident for days, weeks, or months. But during that there is a reflecting programs on the computers a date drives with bling endinations. De a president model date all the affected programs are endouted to produce an one produce to the affected program.

am Ganagey is Computerve systep in Minnesprote styp here found autilised the Equative time also of means writed data kheres White help not sure how wridesproad the problem is on buffer boots, he upgets that systeps on strength boards often lack be thm to policia were new program here get. The result Some data kiese special other

Their net to say nothing in being done shoul if Lagint Depath, line of Minnapolin, for easing hin ta designed some distection software that quadrates a suspected cale-filler program. In distant and memories a addresses with by mathematically samif distant and memories addresses with by mathematically samif distant and memories addresses with by mathematically samding is support program to proceed of designeds, consulter code that an intercent program advalues to example, codes prodem radied of definitions as to an optimaciliary same advalues of the proceeding of the same set of the same radies of the same radies of definitions of the same radies of definitions are same advalues of the same radies of definitions are same radies of definitions and the same radies of definitions are same radies of definitions are same radies of definitions are same radies of the same radies of definitions are same radies of the same radies of definitions are same radies of definitions are same radies of the same radies of the same radies of definitions are same radies of the same radies of definitions are same radies of the same radies of definitions are same radies of the same ra

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TEN MILES PER LAND

The 3 million inhabitants of New Zasianto an outnum beend 23 to 1 by sheap So when thinky government ministers warriad an ecomonical homegrowin alloand twe fuel acutes they turned to an observe chance.

Now a whick fried of trucks and busies is geting teninds per land in a subcassful experiment to produce dates fault from land in the Lamb follow the surpus fault from the cascades is propessed into methyl eater of fallow then blanded with register deter fuel The average famile car produce held a pation of the staff

Theses no problem with the process ' says research scientist ian Monoriel' of Balania Perane Enginese which loads the works in alternetive classificat the nology. We lead tasts the nology We lead tasts the nology of the tasts the nology of the science is an ownything from an electricity generator to the noise. a herr engined felling boat " littice a advesty is useful spinot for Nov Zaland lemb suporters it's used for house and protoig into the new process produces entrier valuable by product gydensi, used in more then 100 of these industrial and menufecturing products from esclotancy for chuse.

But its for connomial new full the excess New Zee lands ingal transvy officials Sheep could provide more than 10 percent of the country's diself had and amuse that when world of processtant to nee again, New Zeeland the pumps more could be pumps and the pumps

HAT KILLED THE REEKS?

The Greek historian Thucydistant left detailed descriptions of the cleath and suffering caused by a mysterious plique that raintgrid Achene between 430 and 427 a.c. and schulars triologinout the contraines have trigot to fugure out what this dilates was thet wasses such have outhe incoset Groek state (apptrained go intrain). Mansadrusetts: free mystery has linely been adread. This page of Affecting was a disadjr motore of influence and door shock synchronic

Langmun who loomen's headad the Centers for Deease Donito's (DDC) epidemology department reaches this conclusion white attandithis conclusion white attanding. 'Death in Athens 430 sic.' a coloquum et the Head's Bolenois Center in Tysosn. Attoma.

Aricent medicine has revenintigued me much " he recalls "but when they hended out the Thucyckles hansaton Troad it with total anotherment."

Thucyclides lated a venety of symptoms caused by the plague—including cough, voming, bleases cargovini diachesia amisessa, and histo-and described how the disease originated in Elloppi, fersia and, finally though the poit of Athens, To Langmar mach of this sounded take severe poindemic influence, similar to the outprises semilar to the outprises semilar

This some semptome dent fill influence as all the notes "especially the retring and the september of the hands and book "influence" worksman (1993). This is not call the semiclassic technologies with the semiclassic technologies and technologies technologies and the semiclassic technologies and the semiclassic technologies and the semiclassic technologies and the semiclassic technologies and technologi

White Langmar reports that many physicians are enthusiastic about his discovery not everyone is conwroad he is note:

"Its an intrgung possibility, although J trenk if its unikely," save taxes shock researcher



Thursydides Tourcabook in scorert Afbecs?

Margasot Deboty of the CDC "TSS could have existed before it was described in 1977; but how far taskk it goes, no cris can know Thansa really no way to peoke or disprove this sort of thing

becomp the reason of his theory is more then the speculation. If not any preclation of what a remark able historium Throughdea was, but i also reaso the clean that the plaque of Althems to not an eathert diversian and in unter shake spectrum that registric time pattern that i takes a "Dimony Baker"

OLD FECAL PELLETS

Amportant scientific discouense don't always scime in the most attractive or appetering terms. Take tissal patiets: Linvershift of Goorgaacatogat Kacen Porter recently discoursened scime and andert faces that may be availed the cales form of ownershift and the cales form of complex life new faced.

Points who normally dutates muroscopio annosi Ne en muroscopio annosi Ne terra, ancoestanti da policies, sente negargi US Beotogasi Sarang geologisi Daatorca Polstana who research Roborns wei scolang to reav ways to locale patroleane and she supported that the organic material constrained or cartain black straios mg/rt offer some class.

Poter found that the polisis wess virtually identical to the loces produced by same malar-in particular wome and adh-bodied creations and adh-bodied creations

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Check Constition related to the comparison of the second second

How king ago did hese parter producing construent live? To lend out. Pontor and her coleactures teked poorte to terror all ever the vordel and here applied semptive clarad here 6.5 belen to 3.8 belien years did Peter insubisation were focued in all anale semptia classic for all anale semptia 19 billion voters old

When Phase this to save long is that the earliest provcusty accepted lostel endense of multicality of a nemafier is about 0.67 bit from years old. So if Porter is right the tree scale of evolution we have be represented.

The desited ammenia write rang science 12 bittern openes leater than consent openes leaters than consent particular and the consent his second community his orthogen Walam School of the conversion of California sci Los Angoles says i will be adounding il Porters wearch writetands scrutiny

the input good and with the Arthough policits may pool the with one world docusteen. They can be may add the world board all evaluation contents were apent. And can be then pool places to lock for the and of shale. Ponte mether the can be the and of shale. There methers are can be the and of shale. There methers the can be the and of the place the shall be and the level of thing the panel are perform.

-Sherry Bawar



ecepts & Karen Ponter. TS billion year old focas? Partor & 6th eliefs are shaking the arthonics world of paintsholder.

LAB TROUT

Page and mice are generally the prelamed laboratory armatis for human-coarciar research that a humblul of cancer researchers are now using fait as an alternative to reclamb.

This dortainty uninety that is has over one pang to replicito rate and more ball they som ha used to supplement what we learn with the notients may bachwrise Casage Badry of Crosella, who they year is conducting sopernons with \$25,001 tool to backy the inde of deal in furmain cancer.

A bag advertage of troop Beatry says, is their they ear be tased and maintaned for just one tenth the cost of rodents, which free millions of delast for additional seesanth

And because the tout are as cheap, the costs of performing experiments with any numbers of test animals are no longer prohibitive thus it now becomes feasible to test whicher low doesn of suspension d anomalies (a suspension d anomalies).

research, Bailey tays is also unlikely to anoune profileat emong animal-rights activists

gans that are present in transport.

CONTINUUM

IO SPIRALS TOWARD

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The changies are so small hyperbolic parks when aeaches and Starrael J. Gold Ston. Jr. of the Linecristy of Virgam studied Interionary-old Octoservations made by Gie Parrior Those Nimps, industry and the Japano a studies industry historic services and the Japano a studies industry historics in the studies and historics and the studies and the studies and the historics and the studies and the studies and the historics and the studies and the studies and the historics and the studies and the studies and the historics and the studies and the studies and the historics and the studies and the studies and the studies and the historics and the studies and the studies and the studies and the historics and the studies and the historics and the studies and the studies and the

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ters emant subtitie? Jacobs

Says the forces strinking to a child with the forces strinking to a the 2 billion years it would have to creat in into uppler at the cautient music of strucklage instead, to Europe and Genymode may be locked in approximation struck the approximation struck the approximation struck the other many strucks. Then

THE SECRET OF PYRAMID AIR

A sectorgular per in frech of the Onan Perved of Checogo at Green may held a scientific bescure care then proceen liberation attributes. A 600-year of or in terretocity social of or in terretocity social of or interretocity social of an other terretocity surface of Mess researchers are planning to a singly on the chambon's trapped and for chambon's trapped and for chambon's program and the social constitution and planning constitution planning con

part Haroux Estessa (who is also vice president of bak Optical Systems, a Lewington, Massachustris company and the makes community owners por space immeaning owners por measure and the measurement properties the taggeters received the web a pozzing assessor it back the amount received the sumoperating of table classes the assessor it back the amount furgisters assessive these processes of the sumoperating of table classes the amount of the sumprocesses of the sumtion of the sum of the processes of the sum of the sum of the processes of the sum of the

"No one has even paid much alterton to the artho antoen temperatures and pressure inside these chartters—bolose is any EI-Baz. "The preservation could have constring to do with the online envelopment where the objects were placed.

But how do you irap ar the phavachs once beartest whout concernating it with the modern-day atmosphono? "It will take advanced space technology to do



Reselections are charting the optic demonstration of the pit and profiling its conlected using radia and other sensors that can see the two will save a hole though the thick impairce walk using a drift very sendar to one used by althouses

The lock work change the amperature, investor, or composition of the air invasion boost-teri differen a petitiwith a wousem and/air fram thurs or colds Them an objective and/air investigation of the air objective photograph the Martoan auxiliaate wild document the charatograph the Martoan analyses of analyses of theorem to theorem of analyses of theorem of th

I think thera's a good dearcis this eleven will show tax whether our atmosphete is warming up or asoling down and just how much carbon deade and carbon monoxide have been powed out owe the years by the burning of focal fuels ¹ Effect notes

"Until now all verve had are assumptions about how out an hels changed. Soon will have risel, ancent an to hady feathand."

-Sherry Bakes



In Charak Evenes for Choops (Amground) Scaundate are assenged



Peoplans on the basich at Ponts Tonton. Two years ago torrented raise ficuated their sears and deshaped 85 percent of the young.

PENGUINS

Hum Huma kontoo on mo Phaloporen coost of Angentria comes good nave, for penguin kavast, damayed just koo years ago white scientale reported the langest loss of Magaterick organ and chucke ever documented since floritguisco navegator. Forchand Magatelan discovand Inweel lightikes birds in the sabeetst contary.

Unequality cost, well weather adcommand the hock from, one of the larghst colorers calassis of Arthitotic and scientists (No Dee Boerzna, a stoeren't hellow travitatile Comarivation intomational says that these sorrebrins containly think costid do nothing to says 95 porcert of the hundrots of texaence of siggs lad and classis between

Tomonfiel name flooded that burrow nessts built by those perguins which converge annually on Punta Tombo in the fail to mate and to rear ther young. Run toroad parent perguins to absortion their apps until the foods suboded When they returned to the obtry, pre-daters had gobbled up the unguarded epps and many of the cheak had dod of starvetion or of exposure to the hereh cold.

But in 1965, says Boeroma. I was a different slory

"The washe was before here was loss rein and hat and elset, and his gowth also was consolerably before from was a distinct inprovement and states the provement of with strengton's methode of Environmental Buildies in Seartho

She beleves that shifting who patterns has yeens app adversely athoused the load aupphies of checks, whose monu includes such small saterins. These hish sample venished because of the service weather so actual perguns sometimes had in more the or more mainteen automation. away from their resids, reliain ing without load, cleapile their efforts to feed their young. Her prognosis an excellent chance of recovery for the Magelarios

DOBOT BRAILE

By almost any schooly measure inclusion indote are invited being traditions of human beings. They can hold add these, but any in immediate areas of booth is to cance that they often approximations a bandharched and access of theme bandharched and a science of bandharched and a science bandharched and a science of bandharched and a science of bandharched and a science of bandharched bandharched bandharched bandharche bandharched and a science of bandharched bandharched

While other researchers work on sight and sound Gate Nevill and Robert Photeson of the University of Florida in Gainesville are doing something to improve isson toxin.

Previous efforts, they seakned, had rolled on analcal 'fingertipe' composed



Shakka coxy hold the key h reaking superior robots

of analys of aerodes that those to develop electores pichates of objects antiply by preasing down on them. "It was this packing down on a tablactiste was your fingtertips " applance Pertonson, "and stying to tail avait kind of wood this tablo under it was made of "

To emprove on the system: the esservices stated of the way bind pocks made patient and makes that handloon of a present and the handloon of a present and the invariant and the state of the invariant and the state of the invariant and the state of the state of the state of the pocks and the state of the class state of the class state state of the state of the class state of the class state state of the state of the class state of the cla

Bo ter the Planda Impersion december on december on one of the second second and second avoid television of the second se

-Bittmmn

"It is now proved beyond doubt that stroking is one of the leading claubts of

-Pletcher Konkel

It day wishout ooffee is like something also without somathing also "

CONTINUUM

SKYTYPING

George Santicem Sr. as astarkin orga desempties who now works out of Postland. Oregoe, here surred the affold what used to be known as skywatting into something that he calls helytypeng 1 He uses a single-kingme Cession 212 and a computacontrollad togging system that he costly chalines to desorte in much debat

How does he manage the and what does it means to the trade friends/ly? His plant drigs a period-the coble some 300 feet long bankets the bety of the Cessing which thes in a trend here. Every 20 to 30. feet along the line is a solerold velve conterning serolds under presidente Each hee an electrical valve operated by a computer made the plane. The computer determines when to release the amoles used to type out the letters and numerase.

The hogging system can form a character in two seconds, with a one-teconed inderestific regarging. The means that Benberns cenced on "type a message size for plane message size microsoft of tend is wated avia the plane and the agrine microsoft of tend is wated avia the plane thing flying two behaviors thing flying two behaviors the plane in object behaviors to complet comparison tends to complet complet comparison tends to complet complet comparison tends to complet complet complet complet tends to complet complet complet tends to complet complet tends to complet complet tends to complet complet tends to complet tends tends to complet tends to

Battibon is increase working on white to impound its yeaken. Currently the car type Mitters 250 has here had 200 feet wide His diteams to ity a 727 skytyser "Tird be taat and slow encug/it to do the work. I caude make Mitters one thousend feet high - The sins—Galera Notes



Environiting instructions this stranged make in recent yours. Now applications could number over the business of photome advertaining of the strain.



A maximum data give fans at unstrain syn wow of a prick

CYBER-UMPIGE

Benefati yazar kepi n documed to Mexim Hams a Introng basebat ten that introng basebat ten that introng the second ten actual light of the packed ball-anther or Joins, arely somebal, or testal-lists jet an eye tent and a ballpark spectate to see or approcate

"I checided there had to be a way of grieng the fams a better were of the patchar e inemendous skill," says Hams a filty-lee year-field aeronsucal ongrieser field aeronsucalitome

The solution of the total set the break over patiential is the break over the commence sorties of four value commence interpretally placed in the bollpark and linked to a contrail computer. After each pitch the analyzer would relative class descent of the Deler graphic classion of the ploth stackaal linght pach with the strike zone clearly claincated, taking all the guesswork out of spagning balls and strikes. Each pitch could be strown fricth ferally any pomportow-sade as from the versage point of plother

These instant-replay claichird of the shown on TV sponticiality of parses. Hence says and on huge ballpark asterns And they could be asked to clock pfc/wes and to judge close calls by the ungree

"I wouldn't be at all surprised " Homs says ' if the lightern were to show that umprise by and large call

I follow encounts with an else outbillation will be an eleverating of a datageness elseveration, dorressing and elseverations, dorressing and elseverations of a datageness mer ino basevisis free and basevisis free and basevisis free and basevisis anote fondoard presente of the university particular anote fondoard version than the anote fondoard version than the anote fondoard version than the data of a marketing presente of another present another present another than the another an

-Kalt A Etnoks

"(profer the entrys of anthusidem to the indifference

-Anatole France



Search of ghosts? Mark people who use cheft are not intering the structure often after up for donar and before foreboard.

MODERN GHOSTI

Modern day ghosts are befored to be much more garde finantly, and resocuring than the hightening spocks of traditional and according to a survey of 400 people who claimed to have best sincounters with the appendixs.

Brook take blockme more provide on 186 at 1 Departs providence of 186 at 1 Departs providence of 186 at 1 Departs providence of 286 at 056 and 58 ms Deferre class at 056 and 58 ms Deferre class at 056 and 58 ms Deferre class the sequences who ghosts had separations of the sequences method and reaching about the sequences of the sequences of intervention at a large the the reaching of the sequences the reac Mitimal says the survey appointers to use of level to accust the Dockson, Calaters described grade methods and the Dockson app bells or hazy homen liques to benefits, instanting plant autopath notices apath appendix of the down light to sait with people Happond alaked det Elemin immerations.

She says modern ghoat and leck the weld, dramatic swints lastured in take by such hand weters as Stophen King. There was

no moving collins or inglittle creatures and no money or trassure was tound be cause of a ghost

completed Mitchell did un-

other one case of a subpected wolked ghost. Workers at one plant, the ways ware athat their plant was heurited by a ghost and asystem academic wan atmisuled to the spector

Mitchell says her clean survey seams to rotate the notion that ghostly encounters have decrement in rotant years in our bocholy you go aughtor and you say you before in ghosta, tout the secret ballor in ghosta shill servers witherstead."

Michael Herself has had no ghostly visitors. "I'm vory septical, so I'm not likely to set them," she says

HIGH-TECH DRUNK TEST

Drumsen drivers in Howell Drumsen drivers in Howell Drumsen, New Johnsy and Dang datallonged with a new way to prove their arbitraely in actions to braching into a breathayten tube they no being available to skip or a practic headbaid holding two drive age electhodes the electhodes land to a meetoopport that drive readered that brain drive drive academ of they for drive

The device, called vertals 100 were reverted by New James var, insis, and throat specialist 3 Thomas Vertals many second throat performance of the second by called the second brain were called a second brain were called a second brain were decined programs of one has decined programs of the second programs of the decine and the second brain the program second brain of the brain and has been and the decine and the second brain of the program second brain of the decine and the second brain of the second brain of the decine and the second brain of the second brain of the decine and the second brain of the second brain of the decine and the second brain of the second brain of the decine and the second brain of the second brain of the decine and the second brain of the second brain of the decine and the second brain of the second brain of the second brain of the decine and the second brain of the second brain Walutical Systems in New

Buriwork, New Jersey, percland a runghlad elabtroencephalograph to detect frase bases www. They oppedit with a percent computer they programmed in recognize the www.pailtante, the result a machine that can based the elabors of aborts and eght dispatidrugs, a lower levels and baser that www.balan

Rather than locking for churgs in the blood or usine, wern looking at their effects on the beam's motor contents says tot blookey vice prescant for the law-enforcement dvision of National Patient Analytical Extension

With a beauthalyzer officer wait 20 minutos so as not en get a fisies reacting from alcohol furnes in the mouth Because Veritas 900 reads been waves chocify no waterig is required

Tim solid on it ' says Captain Daniel Myars of the Howell Townshap police ' But whether it etanolis up to defense attornays is a whole other ball come.

---Doughas Start



Subject hooked up to the Vental 100 distection device

CONTINUUM



Can the insumptions of accesses appoint where on Annod into real world weaponry? The U.S. An Force server to think ap-

SCIENCE FICTION AND THE AIR FORC

Can assence form with kee generat the Aluxy? In some cases they clearly have Withese Julies Vennah takes of there is the moon and the datationed doswings of "Nong patterner" executed by Dek Tracy is oneopy: Chester Gould decodes before the Amy and Navy developed matrixably smith helpatheterner.

This least of BF torse on the multi-record to watch the year of the US mitilies y has more than 40 particular barrows the more than 40 particular barrows and the US mitilians and and the US mitilians and professional Juna static consult professional Juna static consult barrows and static consult professional and and professional and and professional the barrows and the barrows constrained barrows constrained professional profesion The Linethy-Trait century bet insident periodiceled in a prospid discussion that explored their kinet wates called be longifix whicks. Exclude the longifix whicks between the longifix which is between the longification of the sound connegative the longification of the which which is being discrete Acad we also being discrete Acad we also being the longification of the longification of the which is being and we also being the longing and we also being and the longing and we also being and the longing and the longing the longing and the sound and the longing and the longing and the sound and the longing and the longing and the sound and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the longing and the sound and the longing and the longing and the longing and the longing and the sound and the longing and the longing

Highlightman also relates the conference participants conference participants conference and basen repegy down to fighting machines, like sets and missiles so that althorne craft would never inded than own fast supplets and could stay aloit, and pathing indefinishy

Mike Wallace public information officer at Worght Patterson: simpleaces that details of the SF-Mir Force conference are classified. "Some visits can be m-

loased—like the discussion

of how an asteroid could be mined on the sock and he raw one canned back to a space station. But most of the predictions can't be made public The Ar Force, however, is taking many of these suggestions selvously and we may fund subdisk of a least fity."

The faulties conferences where sees the free houses where sees the free houses and the set of the faulties about methods that can be the control of the set of the local set of the local set of the set of the local set of the local set of the set of the local set of the local set of the local set of the set of the local set of the local

We are a transformed sponsore approximate software experiment with self aware moust a heard above the ancostrol ope and a heard below whatever must cente mot, we are evolutionary failures, trapped between earth out and a glingse of heares.

-Hobert Actry

OW-BUDGET FUSION

For years essentiate have been trying to taries the bear of fusion—the reaction generated in the hydrogen bomb—by contining it in a pelicetur potener, there reactor. Most of these schemes have been frightluby resperative, wells picco legs wernability arguing back of the legs wernability arguing back of the leg billion of the track of the leg of the legs of marken. The record has are 51 million. The record has are 51 million. The record has are 51 million. The record back of the track of the legs on arguing the legs of the legs o

Beil lighting her schled inf Jaconied sources snoet was find cosonied tores 200 years app. Formadduring thandanitarrie, it intege and to basic ghoother in the atmosphere of the tratensis to in scherol and the atmosphere of the trapanel venner intege and ghtting carries basic pathways and the tratensis venner integer and the transmission of the source of the transmission of the transmission of the transmission of the source of the transmission o

As a fast step toward poorg the theory and evenlually controlling the reaction, Debtas has encoursed termaid in a horizondarn warehouse, where, using a submanie baltery as a power source his has subcessfully menufactures leverel and spheres of activisal bal lebtoreo

The road tates, for which he is increar statisming to save increar, is to capture a bell in an elactomagnetic field and than field it deuterum to provide the fusion resolution physical has called the holds and has a saved the physical has called the confident that has call hous is confident that has call hous is confident that has call house a working prototype fusion resolution by 1988.

-Bil Limbir

A dramatic medical innovation is giving victims of Alzheimer's disease their first almose of hape

BRAIN MASTER

im not alread she relax. Her husband. Dr. Robert E. Har small Manum cloc a

400, and prepared to implent the 7.5ounce perto into Julies body Placeng and continued to do her job tunneled it across her chest over her first Julie wondered whether if wash) crothin califier to the first catheter larget for such a scheme Then he defind dollard a hole through

The dec would be pertaily filed with would be pumped into her brain to

ingetment was experimental and this was only the second time Harhauph-or arvone for that matter-

Although it was a radical course of devasiating brain disorder for which the years they dihurdled life's probthere is to cure The experiment of lients and her would get through the hope they had had since Jule first



modical trade as an infusaid Model - to--errors J know what (in domo Ju-

But the minister professed Sev-

After a while I realized something per the words or numbers right

succen incapabilities hustrated and Titon New Hannahim from Charles saucht high school science. In August July and Dorbid would celebolin the

Between tears they talked Julie's headednes. They presumed, were the Jule stared at the columns of num- at work, we'l they were petiting bers in disballef. Nothing workprise term, older Forgetting turgs now and then

PAINTING BY GEORGE TOOKER



Wrt Donalds support and her oen dat terminann, Jaionaled Ste hubids and soon lands another accurately galo-and west field the first day. Upsix and conlased, this went forme in our things our portuge so that domains when the manemates abliess. Pertogs she could by somthing leak A wire works the rule was herd as a nurses and at the variants. There in Tibon He poblems were immadiality downas. Atmail as soon as the tooks.

They read. You don't remember You don't enrember a blingt i just couldn't get mings out of the way. I got as social Jenew the ensures (knew (knew how to do things, but i couldn't gait it out. For some reason, throats weethor (butting out of the limits weethor (butting out of the).

Unity Weber reserve energies and the way in time Control resked that she way there prove this built has meet a strated they must be to be the tamp page of the strategy of the strategy of the restrategy of the strategy of the strategy of the strategy of the Scott we variants the strategy of the Scott we variants the strategy of decision where the strategy of decision where the strategy of the strategy of

The Alterevert Distance and Perkales Decreter Association (ADREA) demands that some 2 is relian Arranges with the the consider, or a parcent of where all all all alterest and any some and all all alterest and expected by any at waies 10 promet in the most document classes of demands in the most document classes of demands in any and 120 DD large every year and a mandal, in a whother cart histoper cause of defining the document classes of demands in additional sources and any and any any and the source common classes of demands in additional sources and any any any and the source common classes of demands where the source of the source and the defining the document of the source of the document of the document of the source of the document of the document of the source of the source of the document of the document of the document of the source of the document of the

Recent media focus on Alzhei mar's makesut seem as if the disease suddenly kiched out of novtrees, but Alzhoma's has profeible always been provid.

German Individual Alak Advance Terra leograted the decider in 1807. While parliaming an autopay on the brain of a leograted the decider in 1807. While arean denotes Albertree found to automatil efforcmeng pathol of despressions than orbit, and neurofloatinary tanges beford asturd each other in the several outer and the transport terrate. Before beford asturd each other in the several costs and in the transport with removy tion of the trans associative with removy tion to the trans associative with removy field to obtect in the transport

Resarchers have fauld ofter storemailtes deed nerve ools (noutors), large concertifiators of anyold (the electronic product) al least two potencis in the local vessels and, notocebie storphy of the substance of the outer brean the le oc companied by a decesse in the annual of blood and pluces the locan concurrent

Chemical changes also docur Alz-

hermar's voctims have a deliciency in acetylcholine, a noucotarismatiar napoenable for campying impulses between nerva cells. Whereas it was once thought theil on-fity was part of gatage older, it is new clear that Achiement's discress is not a commar consequence of aams.

The reflect of these datages in the beam an idensizing "Athenners so sets votice on a photo floor object in generating the avertage visiting in health, capable avertage visiting in health, capable present streng an health, capable present streng beam feasible of pilporting the containing praining of the parts. strends these remote floor paptings the containing praining of the pilore. The containing praining of the pilore the containing praining of the pilore the containing praining of the pilore. The containing praining of the pilore the containing praining of the pilore the containing praining of the pilore the pilore the pilore the object of the pilore pilore the pilore of the pilore the pilore pilore the pilore the pilore of the pilore the pilore pilore the pilore of the pilore of the pilore pilore pilore the pilore of the pilore of the pilore of the pilore pilore of the pilore

Most hornfic is that patients often appear to be in reliatively good physical health and continue to exist... on the edge of the-

 A neurosurgeon s the only one crazy enough to actually think of drilling a hole in someone's head arid putting a catheter in to deliver a drug And I'm crazier than mast ®

for avertingly enclose years. The familiar of the vicinis software well the person they know as their moder, guardiative, boths or aleas a smeet object of the software to distance a setting the software well as the software well-well human to be anstelluterative, and because most more expenses the transcel bucket a transtose to comparison of long-term care for Adhuman's patients customing wooseds \$25 billion encuging

Medical investoge about the been's charmed proceeds—and aloun neutrotrainer time in particular—has been a guartum loss in the last decide, but the exact cases of and cure for Abhatemen's Biolubic measurem To cater of todays featment exists. Currently mest Airhemen's research houses are pacelable causes genetics atcornal profess to the Data. Biolitics approximations and applicities in the brans blood how and applichere or the brans blood how and applichere or the brans.

When several medical learns in the med-Severities smallthreously documented a reduction in the extyrne first produces sophicholine, it was considered an import terr clue in unseeking the myseness of Abhamer is. For the first time doctors had proof of the blochemical laborimsity and could reproduce the abnormality under lab condiscrist. This discoursely offered little hope free for Julie Abbott but in time is would

Eventually Donski closed up the Abboth frome and look Julie to live which into a Charlestown, statings to Titler for the summers. Jule expressed sprinterity over the anaturg years: takining hered to califold hered? The Durring? Donski the the amplete takis how to fail time, operating hered takis how to fail time, operating which Julie takisted with the accomplishment of some amail from

During after in grower rules. Alter of horders structured to brain structure are listen to mill for in floats—the list grower interest to mill for in floats—the list grower or interesting structures and the listen are under the listen and the listen are under listen and the listen are under listen are listen and listen and listen and listen are listen and listen and listen and listen are listen and listen and listen are listen and listen and listen are li

Thed known her for years Bur Lelen's know her i knew Estouid but Lelen L mought Lwas crisching up to Linn home.

The Attention of the second se

The revenues Associated with Kelly Down Bootte Triffer, with most second some the day for day proteins because and with one of the second second second second caused pangs of pulk and hupfessives, it was into all second partition proprious be that series of optimism the rever both the series and the series and the photone optimism.

Remarkably, Julie kept enough of her vocativitary and personality to become a volunteer for the local Maals on Wheels program, even though sheld often logal how to set a table

Late one snowy evening in November 1962. Robert Harbeugh then a neurosurgical resident at Dartmouth-Hitchcock Contract ourses

WALL STREET

Millian

TELEVATHIC BUTTOR AND SELLING, THE DEBUT OF TH EARTH DOLLAR—ALL PAR OF THE FUTURE STOCK MARKE

BY BROOKS PETERS

One hundred years and Wall Street was boucht and sold securities on tradeo foors. lower Manhatan Wall Smeet is a store of mind as much as a specific location a

In 1999 both tech work modules ackey with computer video screens display news of billion-clollar tracks made by people all

What can we expect from Well Street a century from now? Because Well Street ulate on the stock market of 2086. They

ton will continue, creating companies with

Along with these consensus forecasts. offers an additional prediction. Former show Wall Street Week predicts mutual

ing business principles. They may be toff

ets Joseph Granville, publisher of The to may 30 points. Likeways up 1961 one of his sell signals triggered a \$42 billion drop

trackers executing stock transactions on the

The business of barrieng will be similarly your bedroom.' he says "You'l exacule









the second second second

Then some to a consideration in failure in

two at 2085'S Seets. J. C. Penney



FICTION

These cloaks disguise reality and blur the distinction between man and beast



IN GREGG KEIZER

Ch the other saids of the okcer the version/theorem the warded in. Encouple to encouple at the warded in. Encouple to encouple at the warded and and the encouple the former. I sail may alwatches through the former, I sail may alwatches through the former to be the deep other on the tar saids of the encouple the and the said of the encouple the said of the said and there the said mark of the saids of the said of the saids of the said the said of the saids of the the saids of the saids of the saids of the the said of the said of the the said o

"God dama J, Kirt, you wase to not to come here again," I yelled an loady as I could, hearing that the weaved would hear malows his own howing.

The projection of the property of the prope

Boot of source and sou

the door open and iffed the care

PAINTING BY PAUL WUNDERLICH

Lat at the logic the same, the like reveal carry doubly wolfses. In that an impair human characteristics as lucans. An overlaps never plant frem the related har a suburd the orcides of his cypes, and his other wolfse the day, belf. Yoldwei, on the wolfse that would and a full benif at the topic filling to ensure that seen photos of the late would have apped on the low of ig. but they ashard to part is the topic of the late daysed for the low of ig. but they ashard for the part had reporting that they wolf knifts parts had reporting that they are first to exist an bard of the late.

It ease all part of the Chemics Look King way, Just an Allechand Teachard by the two registrophysical waven into the class is steer, and crystale waven into the class of steers of particular steers and the class of the class of particular steers and the class of the class menufactured forced the wavent devines of class models to the wavent of the class models to the a autimate of the class models to the a autimate that is an endpoint menutation in home of the class model of the class of the class model wave class models are only the transfer wavent wavent of the class model wavent

And Ant Even has size themail the way allow only that size themail the way allow only that size themail the size where he can be vise lead, it shares means the he leak begin on the with the leak base an all co-tuning the memory all size the means the size of the size of the size of the means the size of the size of the theorem cannot be size of the theorem cannot be allowed by a probability of the size of the size cannot be size that all on a size definition to the size of the the cannot be were the flat above the definition of the size of the the barry of an all definition the size of the the barry of an all definition the size of the the barry of an all definitions in the loss cannot be allowed in the size of the definition of of

At we coming of the fertaion, free aiways makes and come down faster Helide not metamotive service into his nume shape is an some poerly dena deserve in an old mover feetaised a vession for his chromes close wes self on but his movement and genues boards subthinment his pay grouped at his chest as if he where searching for coantelles.

Then he was ket the cloak a piece of gittering black obth he held in his hands his he bruinad bland har from his ayabreas and stamped to the floor, subleng this abculate and neck where I'd cared hem Small stic down his lice, and he waped e with the chreat cloak. The ballway stretelot field, a strange investment the flacge the ar He commod identical to me

"Have fun, Courtney/? he asked, point ing a tinger at the cane I still held

"You're a bastand. Kart, You really are " I stad, arming back at him, and wellched his one disappear

"I just wanted to get in to see her"

Twasht going to do anything, he sed eveng the care. He still soomed wary of a Takew Ri come down off the drug betore Lost inside.

The right mode The right has incluses. Krt Don't you finis' I indus?" Taked I assiloaved the clark yed capsules to, but played at there right I glassed down at the bach head on the cands to, "This don't have any more control over fantace than anyone else Don't le form. Krt Thmice taged."

'Where is she. Courtney?' He stood up slowly using the well as a brace

"Ru den't aven'te understed Hellee doent want to see you again Not when youth neil not when youre that 'I sout porting at the chemical clash he had. "I you come around again, Kirt II sout the workwir 'Inis tase drawed of other Hewas the of the clay, and he saw was new of mestibulies, not he see imade hydro ta' with full and around the set of the drawed with full farlawed manufactured.

"Why do you play these games. Courtrey?" he asked traily "Helea still loves

He peered through yellow eyes, his nose wrinkled up as he inhaled cleoply. His massive head shock as if he were confused, i caught a trace of a strange oder when he breathed in my face?

me You took her away from me and I ware her back. You class she still loves me if you sist let me talk to her. I chave a breach and forced my voice beyond a whispor

"So watcher back Kriff für what? So you can boat her agaet? Haitesis tatil me everything Kri You'te votert insane and water. Shell niver go back to you'' 1 pound and chew andhar beat? "Don't date here agas Sax awa."

Everything? The takes if the not you did if ? Include Hewas quarking several accords. "Water hot so very offerent. I hink, We boltware Halkas all traver the onough to kit you to get the 'I bound out it has been be southneet door. The come of the other sole of the compare and lago that "Colorant reactor whose the goole. If the reactor traverse are goole. If the reactor traverse are goole. If the reactor to actor whose the goole.

How⁷ was all could mentor

He touched his nose once on each ade of he nostris. Tim swerewolf Country A real werewolf Scunt will lead me."

I couldn't heip staring and I heard my voce catch in the rear of my throat. "God you are insure." Then Kirt ported with the hand that held the chaners clock, and i lolowed its decition until i saw the thing on the foor I twin is small airmal of some ked. All I could see was its treated shotel and the slight dark line on the floor. That was what't a mealed i insalized to dash it small.

"For Holes," he said moving his hand bandloate the small global form. "Tel he'll was here: "I held my hands at my mouth to keep the sourcess imade me. If here i was ableng my here at an time that i hered must have been men. "And for you, Courtter, "Joint east avenue"."

A shell, lareasy test came trough the tack wais free outside and for taughed softy we be locked at mo. Then he ways tarting down the hall handing for the darkness at the head of the datas. In the darkness at the head of the datas. In the darkness at the head of the datas. In the darkness, at the head of the datas. In the darkness, at the head of the datas. In the darkness, at the head of the datas. In the locke on once mere. Then only in bolhilder interviewed, their bounds to relevant and by by the flowing from cuasion.

These the keytum in the lock and helted the case in my hand moving sightly in the char as I braced my feet on the floor if it wan't Helten I would be ready.

What's that? Holea asked as the classed the doar behind the 1 tail hold the shen-aligned care statework flat trivy lod sh. "Do you want see to move out almed/?" And ahe amend that heline amle hat made my anxitos and the memories hat had wither and all here my tend hat had wither and all here my tend

The was have again. I seed my eyes on her ags. They were nothing like the thin streaks of Krits mouth. I had to use this to drive her leway.

"I dhoped he would ht come back," she said. She stood in the center of the room and seemed awlvestd and srift as eve sprive "I told him he should n't come hero again I told him I didn't towe him. She paused "I wondon how he lound us?"

Although weld been lovers for almost two manifus now, "Helias had moved into my apartment only kour days before. Last night Ket pounded on the door shousing for her Their abasement on hear through the follows hadm been has to hear through the door

Then I lold her what had heppened beteam Kitt and ree. While I mentored the small, dead thing shi in the halfway of how its throat was torn open, she looked away from me.

He said it was a pit for you and a warning for me. Helica was silent and stared at the closed door. Tim calling the pip a

Firstly site moved lowerd my char and livest baseled in just the caline down on the other side of the char. Her hand was on my shoulder warm and comfortable. She builted her fingers along my systemes onded the edges of my easi. Het the blood warm my tees.

They won't want to talk to us about it."

"Perhaps But he's killed something. That indyimake a difference." (pulled her hands from my face stood, and walked to the phone bar followed ms.



COMPUFUN

nessed RP? It's just like a TV game show Answer questions-win pris And I can play ris

Once they find out chimera is involved. everyone does They'll apologize and say

Murder they'll listen to, even if you tell them charters is part of 4 ' she sted him to come then But for a lover's guarrel? A

sible to solve when chimera cloaks were trated on munders or rapits. Minor wolla-

hand tehtened almost imperceptibly on

"That held track us by our scent," I said. What else?

Her hand twitched again. When Helica

"He is inseno" she whepmod, and ! seefs. Her hand closed over mine and putted the phone receiver back into its wont bother with us ' She paused "We'l

"If that's what you what "I and film nod ded I couldn't understand her hestancy m caking the pio's but she eves upset 1 atrunced and lat the matter circo

in the coopingss of our sheets we lay next to each other shoulders loughing Heles's when I lifted them to my nostrils. Puncent, wit missioning

dooner more in the back of her throat

"I'm plant" Holizo whistrened her youramost unntelligible because of its deep firries her tongue slapping against her leeth For a moment, in the dim moonlight Memones of Kirt and his chrown clockthat was all 'Well get nd of him' Hatea.

"Nos" I such thickno only of Helen wondering why she was so appared involvno the polis. Helice, for all our internetive Was still a stranger till met her att work work tilten in tove straphower, batt still att work work had a tower, afted aard. Kirt And Thoo, agatabay, alved tild att met han be been her after her with die fandaard, hav selv wol mit hors and her provide tilter att work her and lew with me. That had been only four days beeter, and alterapt with herd lowed ner Scoret would weal her, he had and in the comdor.

Tim glidd I came here" Holes whepeed She moved her Ingara busiled my epilola and box with friem The odor of here was smothening. To you knee the Court ney? the saked, her voors and could only nod. Seen Kin here was and could only nod. Seen Kin here as extraordinarily perhamed sim.

I sucdenly fell far colder than the pleas and warmth of my bed could allow

The term to work was crowded and Hollos and I had to puch our wey between two obses women to get through the dom losten they obsed. One woman redded to me, buil was not in the moot for chetter even though the cognized her She Neddin our building alloss or two down i tememband her as a wicebeet is might.

Instremenged to sieve Three to Hung's the right bolows, such only after booking that was pownery makes that has here of Halawin usual performance in the rinking. The banus and performance in the rinking the task source in several herein the sets counts investigation three many region one open in thy naphrase. They had region one open in thy naphrase. They had region one open in thy naphrase. They had been now, not performed future. Helefits warmh become mere in value induced the one of the one with the had had the tree from

"Del you see the program on video lass ragit?" one obese women asked another "That old one with the beds "foulence the beds that ded way back

We were lorsely in a way it was difficult to feel knathen with the omail sourning, things The chreme cleak cannel finit, and people were the similar thay most adimited. Then faritation and one could becore enother creative attend to a winkle and at least in onails own imagination. Everyone did it now Everyone who could prove the cleak of the second of the second environment in the second second because in the second second second second second environment second second environment second second environment environm **COMPUCRAZY**

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Captured in the light of microscopic precision, insects reveal their minute particulars

BY OWEN DAVIES









The parasele fiv Leototena cervi (tas) moroscope. Polson barbs gaard the head and fibras of a spider (custile). A focuale is Michael by Sectory spines (boltant), Pepea 50 and 51. Three empty Journ eggs cling

Someone once soked the arredame what he had learned of God in a lifetime of studying His works. Haldane thought for a moment and then answered "He seems to have an inordi-nate londness for beetles." It may be so There are any

eral hundred thousand varieties species of insects And where pends on point of view. And in

Since the invention of the mi-croscope, howaver, our percep-bon has improved, and as these photographs investi, intercits are not without than finer points. Microscopists use various tech niques to expose the influence details of colorless speamers. sects pectured here is called difterential interference contrast dumination: Two beams of colform a jugged comb ored light pass through polaria









ers and meet in the second inghighting features that other wave could not be seen

In the hands of the premier scientific photographer of France, Jean-Cleade Heys the tots glaareng in a starkesingft. The moutports of a fly become a spray of delicate tabulas like some prohesteric firm Róyy began his career in scr-

eeblic photomcrography (the art of photographing magnified im-ages) after studying science at the Conservation Nationals dis Arts et Metiers. His course work in biochemistry, enformaliony, the varied background needed

Today Revy's portraits of pests and parastes serve the practical goals of science and tooching By revealing what has never been seen, the newfound allowed scientists a clearer wew of many climeralise and matio-utices inter organization



Soft feathers spray fore the slove weaps of a ticy thrips forenter) Chan Section of a make reasouto's astonen has left). Busing cost the (op reht) A conteiny ret of tabales (molde) Raves the to of a fy's mouthparts. Respy spinus, when rabbed on



What can this mathematician extraordinaire and playful creator of multiclimensional bathroom tiles tell us about black holes. the human brain, and a beautiful new order of physics?

INTERVIEW



re surry efferreon Roger Pantose visiting professor surface completity in require faction with as lew as two differ-of mathematics at Roc University is humying a fellow ently staged titles (See the Penrose Lies on page 68.) mathematicaus and a vertex across the cross to his car Suddenie the other methernetician asiss. The you ture you have and levels. The sides he sorted for the past hour are still on his desk. Fusting back across the laws like Alice's robbit, be deappears into the main building. Minutes later the world-class theoretical physicial and geometrician existentineve emerges benefitiers from extrema up and closer three fights of stars

seconds to spare and soon the screen fills with slides of dazzing pettern produced by meriocking (once circle. These

PHOTOGRAPH BY MICHEAL SIMPSON

olde His father Lonel 5 was a well-known ceneticist and puzzle Send His older brother Oliver is a mathematics professor, too. are the jamous Penrose bles which he invented to solve a knotty and his younger brother Jonathan a psychology professor, tee geometric problem "nonperindic sting ' or how to open a flat, been Britch chess champion ten Imes. His uncle Sir Roland

I didn't think of nonperiodic tiles as senous science or serious mathematics, but they weren't simply amusement, either?



was a strategizen of a condition and condition term in a condition term in match later in cancel and A A may a mark the condition of the strategized and the strategized and the strategized and a new subsequised and the strategized and a new subsequised and the strategized and a new subsequised and the strategized and the strategized trategized for an strategized to the strategized theory subsequines that the strategized theory subsequines that the strategized theory subsequines that the strategized the strategized to the strategized that the strategized to the strategized to the strategized that the strategized the

Persona made ha matin in the Files when he discoursed the granulated invanishment, a way of colling equation (b) using restanging the simple on matters. The manufactures are also also also also also also also manufactures in the simple simple simple guaranese interfails and the ported based on associations also also also pack and also also also also also also pack and also all the consultation as were later also also all the constantiant also also also also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the constantiant also all the also also all the constantiant also also all the also also all the constantiant also also all the also also all the also also all the also also all the also all the

Periose tring (blockwise from upper right) chicken ausenbly: pentagon pettern two types of rhorobus patients with accentuations.





othersteined black holes. After Penetoses proct mery physicale wells convinced the black holes oursized and bagen to search for them in the right day. Stephen Hewking bailt on the therein to prove the the unvertee begen in a singularity and commo theorem Juden Wheeler, now believes the unversion environment and in more.

Periodo situación on the physics of oppose del neme a silvagificantel pay averagent that he invented termadifi her "heraba". A tweetin a new mathematical wey of describing physical desienta and apace. A purifica instala designitar and apace a particular solitato designitario de varienza associa tassonadad designitario de varienza associa tassotisada designitario de varienza associa tassotisada designitario de varienza associa tassotisada de seguinario de varienza associa de seguinario seguinario de seguinario de seguinario de seguinario de varianta and seguinario de seguinario de seguinario de varianta de seguinario de seguinari de seguinario de seguinario de seguinario de se yend backward or side hoster more tent or a charge in each loss the insert to smaller. A lower incorporate the back thysical concepts of energy momentum, and som which are obtain journamia at these backgroup back-the is the insert of expression attained work with the observation of the set of the insert of expression attained work with the observation of the insert backgroup and the set of the instrution of backers to particles to the instructor of backers to field.

Produced as just a proof of math the whole approach unred out of the appear regive with classical pro-cuarter me regive with classical pro-cuarter me regives with the second based of theory equation, which contine exciton theory equation, which contine exciton whole and the second based to any and the second based to any any appearance theory and the second based to provide the second based to based on the second based to based based based to base the second based to based theory of the excitor based to based the second based to based the second theory of the excitor based to based the second theory of the excitor based to based the second the s

Listley kowens accepts in twetter the ory han stands and in han not set yealistic protocore. Ihat can be validated experimentally. Memory has been accepted and the space geometry of nonsenode hims, which has noosely provide to size in proteal appearan. A sing packet on a thread is evenday well singht nowle covering abateminor compressive in say here abateminors. The backster is maintained abateminors. celly interesting when a plane must be covered with differently shaped likes in a "temperadic" wey-without a purely repetitive pattern, we leaving no pages

Persosa builds his brillent the peternes and vehous other singles. The summary classifies contained regulations are summarized charge—holidings after is the serve as another A new Mouse Immarkee build be and there have bother basingsons and Disposite there have bother basingsons and Disposite Personal Hog Bell Labs number watorit Panala Contrast even has Persona patterns on the wator of his house.

Address on the sense in the sense in the sense in the sense in the sense of the sen

Pernosels most beguling insperations however, improvembry his "messile oblocits" inswings of sinutrium that outden actually exist in three dimensions. Werehall, the lamous parting by the Durch sursister object. Pernose and his faither dealed MC Extends sub-side gaters a spiral statecase that goos up and assured bibling lamothee were optim to how

Permatis visual applicable is typical by the introbooks, which an coword with doodnake degrime, in electronic he is too the second s

Interviewed Anthony Liversidge spont how clears with Pierrose in Houston and caught up with him later at Oxford Mathemptical Institut, where Pierrose Mas are displayed in a caterial in the front half. Up have and other natural photosphere crowd overy Finlay atternoon for several hours of beamstermen and weeting Orner, In the tim impensed the mathematician tells his class. "Mathematicians clonit discover reality, we create it. Do you agree with that assessment?

Percent on L lear nod mitherestaciant in Intermediate to a some market in the some market of the covering of the some market one market of the percent of the some market one market of the covering of the some market one market one covering of the some market one of the market one of the some market one of the market one of the some market one of the some of the some of the some of the line to backets of the some of the some of the line to backets of the some of the some of the line to backets of the some one of the line to backets of the some of the some of the line to backets of the some of the some of the line to backets of the some of the some of the line to backets of the some of the some of the markets one of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the some of the some of the some of the of the some of the of the some of the of the some of the of the some of th

 If I don't know what's true, I construct a picture of what.
things would be like if they were true and 'see if I like that picture. Beautilut things are more likely to be true?

in methematics, and discoveries Ormy. How can you be sure that that belief

still a mathematikaan's fluxon?

Parenet here you ever soon holes publies factors allow provides in the discussion of Mariahasia anretherationaway like in a you based on fluctual particular sources and mariahasia anretherationaway like in a you of your large sources and the sources of your large sources and the source of the large sources and the source of the large sources and the source of the large sources and the source large sources and the source large sources and the source large sources and the sources large sources and the sources large sources and the source large sources large s

But indetermines a site on activity activing a very phene after and other headsing. There are things that one can never address the site of the site of the site of the termines and the site of the site of the site of the termines and the site of the site

tional Congross of Mathematicans I was fascinated and warred to do scientifying seniar so is developed and use reposable structures of which the 'riber was the parcet form, a tairangle of basis I showed it to my tathem and he developed it into the imposed to statemate

Loafed on Escher once out of the blue Thoughi give hm only is the hour holice he was vary friendly But in a way be was deeponetry. I was expecting some ward houses with strateses group through woclows and through was that the just heat this neet. bdy well-organized place.

Ones we are taking of two dimensional distrings of trings that would be impeasble in three dimensions. Are there three dimensional equivalents of tour-dimensional impossible objects?

Percease (2) yet inside one scroel nut if of marketses i here whyse here initial could just een how to make one of the connexsion loadent water percent of the scholarter the scholarter is the scholarter scholarter initial percent in the scholarter met skip. Wy Back-white is har? The inreterison bench water initial percent deseril loak like anything. The nearest applices i facult is our chromesent pesion skip to patient in the scholarter scholarter initial water percent scholarter initial percent scholarter initialization scholarter initial percent

Onny. What did it look like? Can you draw a protuce of it?

Planetee: You want me to draw a two-di monstral picture of a three dimensional representation of a four dimensional im-

70 CMM

possible object? (Pennose starts skutching a diagram on a scrap of brown paper but then gives up]

centry is your interest in impossible op jects purely playful?

Nense: It is sometring up the might be the With the first two up calls in the bith sometries and the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the sometries of the sometries of the instrument of the instrument of the instrument of the sometries of the instrument of the inst

Perese The Terr Servery accord with the forter lang time and the lands as of the peretage to lang the lang and the langs and the pertage to the langs of the la

Greek Topological y and a second seco

Ome: In fact, you believe a new kind of physics is needed to understand the workings of the bran?

Periode Hes I suspect that the human train is harnessing physical laws that we



DRINK FOR TASTE, NOT TRENDS DOS BQUIS

dent understand as the moment. The socalified isology A latficies integence) was says that its just a cuastion of getting encugh logical units is work tool encugh and then you'll be able to sensible actual bian advety. This isocurso that whatware is geting on the bian is opporting at a lived of physical understanding theil we know encugh about to duplicate

There emerge physical impose don't constraint and only any any emergency of implations in task how where the investment and only and the set of the investment of the set of the set of the investment of the set of the set of the investment of the set of

People usually think that neuronal spnake are huge compared with typical quantum processes. But have huge as rais can be triggered by angle events? The rays for instance, would be exercise 1 and one photon if there weran't a mechanism cutting out these single events. Only when something like sinvin photons are going at comfitme like sinvin photons are going at of collocation and event addressing indications of inverse your annyme even bit of valued noise. I single quantum ownerh own hrogen a renew mysike on ord 11, suggest had brain attaket inverse an integriting between attaket inverse of Netson and Dimeter outstant meters of patients and the classical physics of Netson and Dimeter outstant and physics of Netson and Dimeter of the terms and the physics of the outstant meters of the size of the classical physics of Netson and the outstant and the outstant and the outstant and the outstant of the outstant of the outstant outstant of the outstant outstant outstant of the outstant ou

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There is no even or an account of our more than the first being highlight the set of polytomic term of the set of the set





I the grate globarming halks on hener praces send to have a sportingness admost against relationst admost admost against relational account of these outlands relationst account of the sponsal contra out that way. The says simply the agrits the last is sponsalize to any outland that way is supported been principational and not be printing and that these is the partial base that these is the partial base that these is the partial base that these is the base grate the same that the partial base that these is the base grate the same that the base grate the same that the base gratema power at the same to the magnetise the same to account the magnetise the same to account the magnetise the same to account the same the same to account the base gratema power at the same to account the magnetise the same to account the same to the same to account the same to

His canaer as a space and began in the realm of scence fact. In the Socies us an artist for NASA's Mercury program he was permiting spaceships of a different kind Wrait he put on canvas was limited to the satection offered by the technological the day.

Drace he afinitise to dispiniting total he afinitise to dispiniting tection he found his art underward a strategrametor. TWp permitting deall with ideal within its story. He explains No longer bound by the constraint of angeneums, his spacetips were suddenly transtomed into objects of drame

SKYSHIPS

BY HENRY WOUK

A flotilla of Art Deco space arks files off into imagined voids

PAINTINGS BY JOHN BERKEY



His art is shaped by light, not easy when your background is the black of space?



Besky's technical abbiem attil ordentin in to Art Doos space/news. Ther surfaces ann finadod with hast adaptin data, just arough to ougget these are antihush table for sursus intraditation vorges. The output or smooth for these faritation can't of the benry's that can't add color hast in sign of the artist's oldest alles light and color











What he points is lightime no easy task when your background is the stoolution dark of popular banks that and the popular other ned to danger, that is and dark blues for the chill of space After decaded of panting the space of his megnation. Berkey still

hungers for a sense of the real thing. He funds it's about time we reported aground sense are to a statuting an actual for a camera its in victuritierung? No Sociecing Datar qualities should go 1d set like to tee white the door is support a paramar well sets a for more **Con**

27



a prodiction that as one time that a high survival value. For more than merly percent of turnan history the seventra was home. Faik explains thome equals safely and this reformation has to be fairly hardwind if the animal is going to respond to damper instrumence/y

File and balances that this genets our wall modulines determined the specific type of spannin lensin analy humans in trabeal and that this preference as evolved in large today. It is unlevely that wan hymore level in table open graduatinds or wans spatially tool determing. I're may evolve graduatin in hat setting it is evolved analyzed in the setting in setting the concentrative them have work bitters for protection, available water, and open case that the sterem.

Take suggests that the takes we choose as plant on car law's as well as the ported sometries in the takes and the set of the set sometries known in the set of the set that sometries known in the set of the set the set of the set of the set of the set has a set of the set of the set the wedney to asset or unrential or on the two sets to set of the the set of the Is back up in forwy has also been provided in proceeding and all other interpretent proceeding and all one the work about the interpretent proceeding and the proceeding and all and all one the work about the interpretent proceeding and been all about the interpretent proceeding and interpretent segment and been all one of the the two has a segment of the about the proceeding and the proceeding and the about the proceed

Among studies support Falls and Balt, myth reassant Christ of the catalost studies to measure habitat pretention used has species of larant or the fall while in patielands the other in backs. The research was built a small patient within greater the same than they put a kade of the patient form and hast. This densities for the patientimal small back the same fall for the larant patient for the patient hands for the patient for the patient form and hast.

Fails pairls out that a speaker could be conditioned to live in a foreign environment but given a choice hat speaker would choose its home environment. Thank fiss a satiseties, isochoard to humans. "It says "because we haven't necklosarily tried to actapt to other environments as much as we ve adapted other environments to us."

The definitive cause of our doep differmentional writes in context individual funcmention of social values. This markets and and and the social values of the social and social American social values of the sowed in state internal for both the sowed in state internal for both the sowed is social when some them is an instance of when well well in the of the social values well and provide the social barry barry well and provide the social barry barry well and provide the social barry barry well and provide the social common well and provide the social of the social values of the social of the social of the social values of the social of the soc

We also contain however, houtine altackment is strong whole is a will be all liver, and outsing particular to the strong in the large of baselings indicate and under description of specific particular to the description of the strong particular to the description of the strong particular to the strong specific to the strong specific particular to the strong specific to the strong specific particular to the strong specific to the strong specific particular to the strong specific to the strong specific particular to the strong specific to the strong specific particular to the strong specific to the strong specific particular to the strong speci





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Nature's deadly twisters are spawning a science of their own BY JOHN G FULLER

63

They drop down from the clouds like obscene snakes or elephant trunks, sucking up anything from the eves of geese to a railroad car 9



ene completely out of man a contrati

Enveormental Satekta) woofter apaco-

Sarve Weild anward for work at 7.00 A M on May 31, 1985, ready for his routine which collected the previous right. He welled side a horseshop formed by the screene screens were the rucleus of a network of sensors scoved across focuserds of miles

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A book fanglin version of "War of Works," In Au-EF CAN

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pretouts A handsome aleri man with a Broch military musiche he mound with a pretty one Even Wees however sould

Wess and storms center deactor Red Euroderstorms to mergano cells to intermovements by using sample potures taken currelocentaux or towerro currelus douch. conditions. Otstay and Weiss always hope news lots from get pwelled heads

the lakefort city of Ene. Perrowherea. children. trying to whek them off to school

Street in Albion. Along the straight ribbon le black comages carrying Arrich familiea. peade the lush pastures outside the placed little town. Altwoor News entition Both Mc-

the television as Wilard Scott pradicted the baby squaaled egain. Aren tyou glied you cionit live in Toxas?" asked Lincla No tor-

on Ney 31 was to different. It would be nice to be able to say. Between three thirty may be for casts a while " says Wests

radar scheen at all. The scope was practgoing The seme was true at the Ere lockersu for something that should be hap

called the Keepers of the Gates of Hol, ar pools if anks, paiking with the most the ground A torredo vortex that had beGuys Ike me must never stay in a movement once it gets established. Were desuring

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Auden stanset as a ingh-exhool electroncial gask in Nebhalaka menny 50 years ago One of his havonte is incluver couldn't get his presente working Soon the gall work out "Get Austin" "He amtiol allowing the the amtiol allowing the the am-

lifte audiorum, plugged in a wre-and sat down

Since their her been to the acceleration within a solder is apply in worker in Sold Antaba, a policionan to the two beat incomseptiates to deler grew out of the company against the lega make of devices countie. A permitting fit lake outputy in one state, with in another solation the leda, and run. Time Done Autor: Me would find the children and wange them book. Their held milk, it for guidant to undertime the laws their model of possible field differ 40 barles and here through

Austim got out at kidnepping in 1980 when the low was shanged. 'Guys like me must never stay in a movement accest cets established, be establish. Ware discussion

A chief with Auxim as a closying superience, one bounces from mass munders to cable multilation to a newslatter for recorpinies. Most of it is tingets with the buzarre, and it's all manify documented in computer and files.

He's a flaky genus and his fact gathering is incredible offerse John DeCerrip, a Nebraska state senator who has Construction of the second sec

UFD UPDATE

Other of or spring in the between an induced books. Low at the records if the says, "that if the the most people who sao LFOs are only people who find thermakives in the opurties (Subderly Neet's in taffic node in contexcerning as them or trying to askill them something. These are no lights thing internively to waik them something. These are no lights thing internively to waik them something in the same no lights when as on long most more than the same devices as fugge model picts this say.

Just where this will lead remains to be seen, but it's sure to lead somewhere. He's driven' says DeCamp, like a mad special proving he's smarter than overvone ease.



CAPTULES

Even server the 1878 Gen torned Americans have base benying bases of memorable as for future generations to decover But when the time to decover But when the time to those and the capability of the memoricans when them on

Decens of ones --including sents the Wese Meeodo, reapols -- have tred to response capaular reportedly tasked over the past decades but they leand only det. The reade of New Jamsoy managed to fee its brothtement time capaular before it bened. when bounded 10 while load-to works later in the bearmonin of the Cataria Control Commission.) And the form of Coronis, Cathomie, has load as least 17 capaulies eloposited by high school students in high Thortes and eavy Frontees.

with react or energy as sale bee, and momorphice, ' says all Delogen of Costant's Companyal Committee "Build no one can remember enactly where the beaus are builded. So we are delivering a cost transmission of build one way of the delivering a cost hum and deliver reveard.'

the fusure. Colonado engineer Jamos Kusterer Jr. hee recording to a radius' Three Singtakins her Three company manufactures stamforse-sheet and alumnas halp possine newtprint for (265 years and good bond paper (61 1000 Å.4.a. possis) anywhere horm \$1 500 to \$3 000, Notimerer widts you can got a box os large as 400 outpridet

"Book buriel site will be recorded on goodesci survey maps and stored in a bonk that that explose when (IS sime for the captule to be opened." Kusteret explains "Assuming the bank still costs, officials will notify the management with the "

According to Emory Uni-

estaty on Instantin and entree-object forma Webbout time capsules an information with the twel web to pass information word, they appresent an edited version of a particular time time says. They are proceed hord going to instantio times that are unable/with a a location net are provided they are unable/over an instantion and and they are an emportant as a location are an emportant as a location are an emportant as a

Rupperer norderfassa antring owinization feeli Archesot Frank Loyd Whight ones said that in the event one said that in the event of a nuclear holocasist, antidas would be dhna taket bowler in sant of hoping the my time cappulos will be right acorgade them Brany takets

"7 am not that 1 pility" Welson Shakaspeare

MACCABEE'S HOLE

When everying an oxistor propert at Baltmans have harbor on September 2, 1984 Druce Maccabie glaceod up at the oarly werring sky. Against the brach with the anterest the dark tamp data action the dark tamp data action the dark tamp data action the dark strang data action. Sector the data sector of the dark tamp data action the data data sector of the data tamped action of the data data sector of the data sector of the once were

Talget therearing this thing would reactive listed into something in cooperative, i Massable a Novy physicist reading to didn't. As the object toxidiad northwards pung Massables a bitter www.ii began to toxid to the erist antimem Nach belo

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in the late summer sky.

Reproduces who barries on the Contract for 100 barries occurring to barries that investe operations of the contract of the operation of the operation of the contract on the contract on the contr

After seven mestes Maccabos lost spin of the object as it passed behind the Baltmone leader Center Responding after boveral electricity, it continued northwards, prinning to a key rich before a compressed

Oddy enough, norse of the other several hundrad concaligoes inported seeing the sharps black object. Macce bee however, and surprised Triwel only university boots of a should're have been then or enrywhere, probably. he says "And I suspect the other withosses drift even makes that "

Waterballer careful no all charged this a safewatery wapanetion for the black help The light systems dann would have been easily recognized if help been as plane helpopter or bird he have. If was helpopter or bird a velocity of more than have in missional word speed to it could's there have a balloon

Bit LHO Wept and beropping purvised their transport of the second second second second second second second the second second second cally different from what the westphic fact calls will be be the second second second to meet the second second to meet the second second to meet the second second second the second second the second second second second second second second the second second second second second second second second the second second

"Boardos le'as always the others who die "



MEAPHOEATITIN A

Cert a rear death aupaninda (MDE) help you subcread in businness? We scooliding to a rotent study constantied by public reletions export Lingh Henderson of Beaton

Provokaly a literative inferderson begin gattaverie inferderson begin gattaverie in 1981 unlike brunk with death down her into the bus nees work! Tradi an uncer operation when any uncer trad service operation when any uncer trad service out of a later. They death know wheel to was be obtained from My blood pressure deaphed to your, and to toge hours I was an critical remotiver.

While she hung tenvore, ive and check Hondonson. Hondonson, we statuted with a techniq of pace and she experiincode a vestation that showed her she seen i mean or penetro. She receils apprende the world the world the cap the seense of the technic her cap the second the world the cap the second technic her cap the second technic her cap the second her

Taking the advice to heart one ont only survived but one metiococally through the anks in the public relations world Now two years later whit has opened her own bublic relations from

Service in the associates for any other think film possessed is some think finds film creary," she says "But film a warg speed businesswomen i mit worksackie. Wy NOE pushed me to be more avant more publications i'm going to be nah Bucause her NOE pushed

her to such success, Har-

university (English Michael Alampia (Alampia) Islampia (Alampia) Islampia (Alampia) Islampia (Alampia) Islampia (Alampia) Islampia (Alampia) Islampia (Alampia) Islampia) Islampia

Includings ports out the not berryce such as the output while terryce and and the more problems site exprime. Some people are overwhatmoil by the MDL minime some people are overwhatmoil by the MDL minime some people are overwhatmoil by the MDL moil have insulate adjusters of knowl eagle in own explet. Now he have toughe the drag one have toughe the over



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Control of Processing and Control of Control

A-STOP and Endloots incipant group are respectively the obtail and news of a growing number of an Own eropeanermal organizations pergrangi op in obei visiolie fer United States. Inspired to the second state of the second test of the second state of the less of the second state of the IEU/SDM (Research for two IEU/SDM (State)) and the second state of the Research is and two IEU/SDM (Research IEU/State).

resson as notiving leasthan the defance of Westorn o vilization. Survivations democratic incusty depends upon the ability of its onzene

Collection of the collection remains of the land land cristensis, "declares a resolution reacts taby Area Seets as Set the new brend of alegand has next maximum alegand to the brend with the alegand of the CODP when more referent in has, shall be dood clearned to have, CDCOP's bedrary, CDCDP when more Paul Kosta, boarly reported Todocits o theory method

Another CSICOP difficult objectivity and longtime personnel once file hyman charges the mailtain debutts on with webstanding the ministre senses in social software people will do anyther to be the sense of the senpoups are encendy sense an indeal best sense of the senpoups are encendy sense to poups are encendy sense poups are encendy sense poups are encendy sense to biasect the medical probatance the medical propoups are encendy sense to biasect the medical prolocation that little

-Jarome Clarke

INNERGY CRYSTAL WATER

and his wild. Packet horizontal and his wild. Gale (below) were manned nachtly (they haid the celemony in the Great Pyramid al Dira. They celetratiod with a fair. Then minds cleared log starveton they created inverge Chystal Weare the lose act to good

Or print water had its start by varie ago when Flens gan head that the people of her knows in Pakeste other word to mose them 100 because ther water had high electroal conductivity and lov suit ac tension. Baselved by the notice that mere average with began to develop an began to develop an

Phanagan conducted experimonity for 23 years Though saveral processes worked, he says, none were suried to make production

upon a break through during

swheth day of the last he deoded to mic ordinary wate with motal selectes. The selectes shifted the wallook tenaper and conductivity to Hunza levels' corys Flanagan. The process with chasp, and it worked

Flamigan's new product, inmade innergy Crystal Water can be purchased in the form of socials powdar tor \$3 per curso. When the powder is mated with a gallon of dealined water Hands-powred locate in the navel

According to Merrin onlyand Merrin Daylor crystall water react burns, curse address tool cardina and an effects tool cardina and an entry of the could be the tau cal owned a settra could be tau cal owned a settra could be tau cal owned and the tau cal owned between the tautor of the tau cardina tautor and considered and address the tautor and the tautor and considered and the tautor and tautor tautor and the tautor and tautor tautor tautor and the tautor tautor tautor tautor and the tautor tautor tautor tautor and tautor tautor tautor tautor tautor and tautor ta





on some reading. Is two months he was supposed to begin an 18 month research proposal Since his college days at Pennthe effects of various peurotranerolities in idea was to use a high-tech medical dewon that could deliver drugs details to the

cipiting perhipses the initiated promous a bismer's was a return for his project cylindrical tranum disc, the thickness of a

the frech moves the balkway which forces the drup through a filter and vito a cetheter that delivers the medication clendly to the

For Harbauch, what made the infusaid the contrieve that has forever plaqued neureloav-acting drugs past the blood-

Surgary would be required to intolant the operation wasn't a difficult one, but any fects and one that could be affected by

lared from an undefined type of dementio. Harbeuch mad on The article summed up

Harbauch is a doctor whose encoursonia bedside manoer prepades tim his opporchambers. From a volatile fluid, is seeled are was to try to replace apprvicholine by in the over chamber. The inner chamber infusing an acetylcholinelike drug directly.

serves as the reservor for the drug. Once into the brain. First and thermost, he wonted

Because acetylchoins cannot be m brugh merched for potential analogs, hing it easier for Harbaugh to get approval By January 1963 Harbauch was ready good surgical candidates without any other to be well-informed and willing to collect thorough svaluation to rule out other causes

to area physicians, asking them for referpases that might be treated with an imnot neurosurgeons. Because Harbaugh's as masive and ill advised for elderly paing such a system was not a standard think of drilling a hole in someone's head

patiently for referrals. He was well aware

As Julie and Donald Abbott were led join

data for the project. If a cendidate met those his office, he harbored no great expectawas that she had very bitle mechi into shat versation." He described the project and attains. Only one other patient had been enrolled and held sist completed surgery the decision whether or not to take this state

practice. "But" save Harbauch. "only a encourserd. I set don't tick there was We did consult with the children, but we and putting a catheter in there to deliver a mostly leit we cauldn't let this change on by drug. And t." he adds, a smile emerging. I just knew that if I penciened too long it

Jule across I want atwat ... I tel nood about him He was very kind"

consisting room in the mausowinical wind was documented by bloosy, the pump was retailed During two hours of surgery Harissue along the abdominal wal! He then staked a cabrier altached to the cumo under the sion and linally through the skull minutes. This would be alternated with

total to four All had pumps implanted in patient to see if this affected the treatment shape to determine the beet closes for each

OI all the family members Doneld was He'd call me within twenty four to forty-

When Jule was on the betweerbol jously walks. With Automotits devices





Now that movies come in hill steep, you can hear something that used to be univatil of, pure, high freefly sound. But you need the right VCR. Toshba's new M-SBO VHS. In los a dynamic single of Bo db, and virtually no wow or future. Plus A heads, 117 channel capability and wrieses remote control. "Weary writhereme."

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the world. They came in the way she desisted herself in the morning, whether she was cheenful or dispositanced."

What close Julia remember of the traff? Locald tell when the shots warrant right, she says. It know what they were using something else I was out in mood—some times I linet mean.

Accord Translessing of the write on a date of barrancost christie subdemy kild mit a step of entreme schwarz, schwarz barget man basitery of tess and faund and mit an abate with the schwarz methods and the schwarz methods and the schwarz along used for the drag, and the schwarz the schwarz barget in a band the drag and schwarz barget in the schwarz schwarz schwarz along used for the drag, and the schwarz schwarz barget in the schwarz schwar

That Christings Donald took Julie to Tuoson to visit doughter Kathy and hart lamly. I had anway bean the one who held onto hape But that Christings I was eauled from generated I Bad somethin a lott the moon We dath lands without with a lott the moon We dath lands without was going to happen 1 kept threfwing shout the donne Dowers to Alapmon.

By January 1984 Julie's while blood cell count was back to normal. Harbaugh colcused that Julian nacions was due to a wall infaction completely unrelated influe to the chug on the plavoids Bacausa Julie was attil discrited. Donald hind a focusiologoed to gave for the

In Figure 2, also shared back on the barnanechol This time shared back on the k No more roles costeller Hateback promresol "As the medication was increased to low was used abited." User Donald "She led more and more independent" and by resca used with the hore environment.

Harbacyp published his results in Doctibler 1961 He wears "Basical on reports from family montoess observing the pulicities in the diright only and the second rescausaging We have had reported at the ports of decreased confusion, researched instance and implementation to day living pach as hourehold husborn, personal huggers and second instractions) during the generated leader informations of any huggers and second instractions of units the result weak whether the second researchers in the results.

Harbaugh was elated it was the fest time a teatment showed such a noticeable response in an Athenner's pilotet

Let lab would have it, the same month Harbaugh published the results of his simtennial Advances a weateness. North His work hit the moder records wis feat and kinous—and rigotout of hand. On the West Coast this initiation method was insecutedly recorded as a care for Authennes.

Dertrecuth Hitchcock decided to hold a press contenence to streighten out the mile conceptions. "There's a quote from Mark Twan, attributed to a young bride on the day after her wedding night. She said she

4 CM5



kind of knew what to expect, but she didn t expect # to be so big_ single Harbaugh. We expected some of the local papers and instead everyone but Pravda came

Bocacce he sample was trained and the execution by subjectively possible Helsequeration of the subjective possible help sample of herein the subjective of the original subjective of the subje

B. Beitsberrerstein die bestehende offen reteinen als weit an powerig reteinen alle reteine son weie poestelle Skywer Hastewart Tilwei herd to generate all wyr meaning tal chaiu fern her storteinin memory ballery hat wei meeningdu kelker i wickule een memory beering alle weit i wickule een memory kel asern to be a poestee offent out i went on wickel herministrom.

That told us a couple of things. If we

were going to lock for insurgerychologic testa to clocument any change it had to be a much tosoder-range testing than just short term memory. Second, maybe the place to lock was at the activities of dailyining scales, how these people are functioning in their works as opposed to just neuropsychologic test.

But oculd the family reports have been indicative? Were here the report of bind hope? Notiong after publicating the seaths hopean that and the seath of the seath of the seath here and a factorial in using histolicative the way information using histolicative the way information using histolicative the way information using histolicative the seather seather a double block stack there is in January 1986; here begins a ten potent double bind stack her potentiatis fail and offer patients there what herebase the land

In April 1985 Harback prevented the Interfrags in March a dispression on Altheimers Perceding the report was a parlot on an experimental approach that in volved a dimensional provide the second transformer and the second transformer and white that shares results in the second blocd pressure mouse and vorming and the with scale side features in lowered blocd pressure mouse and vorming and the second blocd transformer and the second blocd transformer and the scale second blocd transformer and the scale second blocd transformer and of the measure. White Harback the scale scale effects the scales previewed the scale scale scale scales and the scale scale scale scale scale scale the scale scale scale scale scale scale scale scale scales and scales and scale scale scale scale scale scale scales and scales and scale sca split with hell wewing the approach as riscical and horitole as Harbaugh puts it and helf accepting it as an innovation

Word of Harbsught's work had already fibred through the medical community and later that month his flew to Alama to meet with a group of neurosurgeons to set a protocol for the list nationwida cloublebind study uses his treatment.

In JUP Hirksuphresewed a gort from the Nassael Instake of Mensil Health for his ton patient double dend study part of the collaborative retromwell endy in subsequant months: the University of Southern Dalifornia. In Monton Auxonagoral Instaute the Monton Auxonagoral Instaute and Auxonagoral Instances and Auxonagora

Although Halbaugh sinta Indings tervined a citical both their are some steppes in the messal community. Dr copy of organization of the tervine balance and the second water balance and the second tervine Althours is disease progresses in a stagvinced there is a phenomenon these yet Althours is disease progresses in a stagvince function individual to the second determination to could be particular of second tervine a whether distinguishing a second main an whether distinguishing a second

"There is also a certain amount of un-



necessary list with the influence system says Knacheuren. "Thet, however doesn't bother mis as much all putting drugs drrectly into the cerebrospinal build because we have no way of knowing what the drug a neally doing."

For the Abjocts, Jake's charace to take port in Hotsagnin anchy was a briss may it came by' asys Donald, 'and we grabedit' show the key beam on continuous behavious to have statistical 'fibercally, the greetest mypowershift at that also them't sail any of the kinctories she had when we text met Dri Hattasigh' Danald when we text met Dri Hattasigh' Danald say. Wo have attitude has improved gasally she beds she is being helped. She is more confectuaria at marks

"But, the adda, this memory is mpared there is puestion adduct thisber shortferm memory multi severity" forms is able care carry on and follow in conversion. The on-out is university of additional the adduct for the tritter and sever after thry very black in afferrer formed additional the care of the tritter and sever after thry very black in afferrer formed and the location (sever meeting the totopage) to the last time (1 black) WWM a number to sever suppression with the seveness of the severe severe contains on the last time of the tritter of severe severe severe severe severe contains on the last time of the terms of contains on the last time the last time.

"I was like incoming you know estimthing or someone and not barring skills for memorities, das asys." Toould't understand if lyst couldn't fryute out why things werent going regins, even simplishings that howe now to do it hintsw. but I schrift get things hold.

Where would she be now if she heads t been a part of Harbaugh's expension? "Based on how the wer birstering when while date hat "Harbaugh says "the odds are very very high that she would be in a commitment." The Althaughs

 "As much as it poins me to say this she probably would be in a home "awy son Doug. "The difference since she's been on the chemical is very procounced."

See tee retained the probal way Part And her objecty That is important Broomore oppin with the learings now Site bills me the shit crise now and then biocause the onus part of a all in Part bit does not member when able could do all the stuff But the does name a sense of turnor a warnaps and a forthing attudo

Two months ego, at the annual meeting of the American Association of Nautological Surgoons held in Derver. Herbaugh presented file results of a two-year holds up situaty on Julica group his first four peferities each of whom had optical to contrain with two shares transmitter.

These of the bur potients, including Julie showed in deterministic in the activities of class Many and only a marginal determination exeminatories of verbal about 10 L mediang comprehension and memory. One paubent a soly every ever of and real and text however was unable to complete the

teets and showed a marked docline in openative and social function

"The reason for his clicities may be alvisuable to the fact that his whoreanel caffeter became delotged unknown to the physicians carring for him, and was no longer delivering the drug to the brain," Hartswith sets.

Is it possible that the drug musion had no effod on the progression of the deease that the data amply reflected the normal course of deteroration?

This his is as the normal progression correct be decourted, Harbards and during his contribution. Harbards and the nase of progression of these patients prior to entering the study, however we hink that is comwhild unlikely.

One fact cannot be clened. All four petents were headed for nursing fromits when Herbeugh hell saw them two years later al four were still wing at home with the help of formly members.

Allevelage the reliable are encountering: whethere on roth emploit will become a convenience to inserting disputch on the disrue. Then reporter data may also make them the insert by the convenience and the second second second and the planead researchers may find inners that be determined. If the results are planead used allow effective after the determined the returner if the results are planead to any effective after the determined to an any effective after the determined is planead researchers are planead to any effective after the determined the returner will be revealed the determined the determined on the returned being determined and the returned being determined and the returned being determined and the returned being determined determi

In the interaction the implanty of AG methods summary bit-out mytery Weythe detection occurs in the late place into out a late boards adjusted on the end of the boards adjusted on the end of the boards adjusted on the end of the end of the the end of the end of the end of the there are located in the medial features in barand are very remplicant for inter 1 form monary apparate from the end of the them monary apparate with a three. In barpara hattery of AL/20 mms is may hatter indications that the constant of the first discusses that the constant of the first.

But I think it can sell make a difference in the level of activity of the coherti-les or her intrafere unsity to nick to in take, and frings like that-Herkaugh adds. If we can get someone very early in the occurse of the denses. We might sele a midcal change with the treatment. Until we get before of agroops however. If is n Datch-22

Daniel intered from toaching last year and now its and Jule are crearing last year time together. Site is through the last bean able to hold her own. We set timled " says bond of "Popole are so throngs for hope We creat segment these are so many who haven't bears to show and

Julie agrees 'There are a lot of thismout there i she says relearing to Alzheimen's victims. Tell them to take heart' DO CHIMERA

aftard #. The others watched wideo and creamed of being something else when night came.

Perfugi we let gaby stort our oneconcress for our there were inversion again fraugh they weren't real. And same pootage were like for who used for commaand brokens is help their reality. Poole the contents and played all being a latting, aggresses beaut in the right the pool. In they bothered with people in chrisms. All the second and the blow works, the pool is negligible of being and the pool of the right people of the chrisms and second blow blows the blow works. The pool is negligible of the chrisms much blow and blow the chrisms much blows the revealed the blocked.

¹I'm going Is lock for a new clock formor moves beed me and Lamad, built it was only the second fat women taking a bit odget. The new lock gas as old and a betty Artish rate may have a been at the the second better and the second second and be being that and the second second the fat second second second second second the fat second second second second second the fat second second second second second a way in black for doaly to a the fat second the fat second second second second second a way in black for doaly to a the fat second seco

The train stopped in hort of our office builting, and we worked as way to the open doors. As I stopped to the ground the mon in freet of me earnshed well hearteel sug a haint to drained him. I saw his face go white and sumed to see whet he looked at

Eller was apread averwardly on the performant her had cannel outly to one and there have was hadian from mis Dati caudo to have summed at the basis of her needs, to a time of abard started there and derawards the used as A cannot aprecipe was derawards and are builto an outlet there and derawards and any start there and derawards and the source to appear of the source is here to for a water of the source is here to for a water of the source is here to for a water of the source is here to do and there is no to appear to be appeared to be water both in the source of the base to do abard the is no to the source is the source of the to water of the sources of the source of the base of the dot is of the source of the source of the base of the dot is of the sources of the source of the source of the sources of the source of the source of the sources of the source of the source of the sources of the source of the source of the sources o

On, my god," I hand Helles whopen Hat eyes were wide as the stated it the body. How could he do the?"

Lieb a auditer chillion my erres and mealeed the direct women looked herman wave nem the back. Her har was automher into loog, and her herd loog for her wents. Unabled around the dogs of the wents. Unabled around the dogs of the sente unit lood see her foca Through her controlled partoos and the sites of her body to not her through the cooperad has bloo Lineograph her because de looked to much like rem

Somebody's idea of a pixe if suppose' the pip investigator and as the date back, the datareas class from the woman on the ground. The outline of the strage on the payment phinemetrial for a moment and thes additional it was the uncertaint of bady of a strage. A strage in human it was the bady of a strage. A strage in human is was the the size compound markings on the animails chest were plan to see, over through the darkening from the form throat

1 don't Understand 1 8 8 d

"Services in kind the poor creativerespiped for dock stored 1. He investence of the store of the store of the store a amini kinght is 1.6 were contapourand then charged the carces lines. Here any clear wing? He beard at the store of the your the coore encough net to maker Coore to chard to these were in the store of the collection of the store of the store of the collection of the store of the store

"ries, was I do.

Lephane all your hencite do, loo hence and looking all helion hencite do, loo hence hance and looking all helion hence posts all adverses for a deally to hele the pulsy that hence hance all the helion helion for the state of the adverse her and the court way the portional to the adverse all helion that will any on the postement. Pertagos in were only interpretation, built 10 hought 11 any distante as anne occor as in the holivon the not below. Dealth were

Carit you see the shock she's had? Hales asked. Of course she doesn't know who did this. Leave her alone. "She glasted at this pio investigator who was alont and barread his eyes after.

Tapologize.' he sud treaty : But we have

to investigate A 200 compound animal a net killed and just longotten ...

is it more important than she is? Helea, asked She atepped forward and tried to push me belying her

Broot Tasa Step 1: Tuplet Heless Herd form yair mar al tokala at the porivestgato. Yes I hink I know who old the Hes threeword me before Lastnight mitad: I cauda anse Hallass weat onto a U lando i know Lot ne takin. The's the only way we can get not if him. Back to packab because Helesite III has an enter packab because Helesite III him to Hong H me Head to a call part of the mark that packab because Helesite III in the tong H heles public book to IIII has been helesite work Weat is to a call an enter Helesite Helesite public horm. Tappoper His mane

She glanced at me for a moment, and it wasn't hard to see the futy in her face. But she answorod. Galine. Kitt Galins

He frinks has a watewolf A real one it said it head Helea made puckly

Devoluty: the investigator said, and when indrask my head is contained he bent down baseds the sheaps carease. Unusual wound the said putting he ingers into the inpops fitted of the aheap. Bee the apged adges? Here and head built use a block that a plan. Something blant will suid be said.

Had he actually placed he mouth on the thing's throat when he killed it? Could he be that must?

'May I go home now?' I I nally asked



He looked at the place where the sheep ay turned back to me, and hodded

To stry in tonght 11 were yea, The sect parting to the bachts head ring on my left index linger. Though his actions was sound linuw linguistin taken it. Wall see what Kin Gailina haat lo say about the Shouldh the hard to lind him. Call if you think of anytimas action and starked there.

"Detruction of were there of anything - 1 bened their were where of anything - 1 grad to be astrong a coreof even in the towget I cloth will be their to mean with me. The group made me confectable for their an converse standing said cut and my user weiting for ma to stap cut odd the cut of cliffers. But overy time I below accurd, the privi familiar face i saw wan refeats."

Why did you tell http? Helea asked We could have dealt with Kirt curselves Now the p.o. s know even time

I stated at her A madmen had killed an enemal and dressed it in a clock to make it tool like me. The motining was less than subtle Yet she shill thought we doubt do semating about him outletwis.

That's the point' I said slowly. What can we do? Killiam? I don't have the stom ach for that. Helica. The p.o.s will find him and look him away."

She grabbed my am and pulled me to har until her ips was only inches from mine

No," she said, and I could leet her breath hot on my face. Thi deal with term myself. Here mine, and Tit do what we've always done with those like him.

We ve done? Traiked feeting her hand still tight around my arm. But the wouldn't look at me, even when she spelve

He a make Douriney But don't let the p o 's force him to see that Let me

She might as with have contraval with her unspoken words Let not because i different with the point and the set of the set of the point and her to speak these unspoken words but I was athed the would answer and put an onal to were thing.

She seemed to read my mind. Please Courtney No more questions Just let me take care of Ket

"Let 5 go home "I said, suddenly afmid of issing her

Daron Kirt darwi hm, I thought and for a second I even believed I could do him harm to keep Heliaa with me

I gazed stupply scross the park meadow and imagined i chewini on the grass. It was not the parter that I chearted of but it was the best in the city the exclusion of but it oppen ground. Somesian I would make it to the plane, but not longht I was only a trean in the calv tomath.

There were at losist takes decen others around me people I knew veguely in their human forms baller in heir chimea clocks. The great shaggy buil lowerd the treeline was Meetern the young dow ballifie me was indice. It was not here of my apout, and

X0 CONV



Clease Tablet Offer Toget a wage, MeV ottain Their location of the days, include Tablet Deep Link and their for ensure under Hill your train (H. L. o. XL). Landfor and your extension indicates the filtingen Captors Therri, Days C, TO Ben 1714b. Derrich MI 4007 Martingen remotions with noise to Multisen of a work for charge your policy captors (LDC), do ensoured (Landford Landford) with the second second second second second second second second second Landford (Landford Landford) and the second second second second second and the Tablet second second second second second and the Tablet second sec

Winner in the Chicago All American Beer Tasting

the sense of security was thick in the ter # we moved slowly through the grasses

Its teaching in and out of myself. Most of leapt sticting in and out of myself. Most of the time inspaced i was human deviated only increases accessionally licet hack and only show when i came out of the tablehead the tictinity thought of myself as bision. We are a spaged animal readity but one with group shotter. I was an aminal liked to be

In the tear moment of human commy son well goes to the apartment from my son Well goes to the apartment from the serve of the pot a moline chronic, set orders, day make too to me with human server and the measurement and apartment of the server to the server and apartment of the server to the server and the server to the server to the server and the server to the server to the server and the server to the se

This confecting wernth of the feed as we closed up made me also from my humanly than but hecovered quarkly bleve knowing what I was the sense of protection overwherhad me until the very work, away ancedy tail from my buy medi until Is was empted and confident Mathing could have no begin the bad.

A norvous flicker seemed to run through, all of us 1 looked down and though the channel I wore made me see the thick the own abounders of a baon. I know I was human and was really only glanoing in my wikit bait isswimy mathat har move again as the freeh beneath it twitched. We'd smalled something wood in the err.

A province from the trace and only the way was Wolves either ones has an only let or servicing. Both knots would be chemical driver. The manifests of the held moved closer together, there of the black on the outside of the sagged oxide calves in the model. I sloped into the dream world of betters and like the Movem .

Lawset to sear first werefold to effort my sept is to provide at me through veloce were the nose werefold up as he inhibit douby the masse head shock of the were contract. I cought a share of atames doe were no head head on the first on Again the families public from corecoustions by eyes heads core and were weapond and could be through of the weapond and could be through of the mass myself as the smooth open the mask myself as the smooth open.

Finitesin again touchad ma, and I could only state during and two works for may love to thread, with immersian common love my present thread with mechanism like the present of the control of the second the state informy syste. Thread to bark both could my face tight until I felt my temples thread in learning to the hasis, activation for the learned on the hasis, activation has not back hard and howed at the hard more than stepped back, harming to my list! tringing my imminise head chactly in line with him. I would not die easily But Kin! did noting but how onzei sigan waier a hand to indicale halea beace him on the ground whit, and run for the trees.

Denen away by the laid childle donoraline (lateland burned film my body and 1 poeled off my chimetric clock and held of in my hand. Savatel of the objects in my herd wate doing the same. The one-set of playing best straffed around the spoor of the valaling, werenoles. Heldes had been the only castality.

And then the enorming of what lot hold does strack more Hold muddent her. The p is would hurd hard terminnew. A hold exchange the terminney where the sound of it made me took i was in the gass my hands carried an environment. The mount gasping for air as i vomited. For a moment, lower logal whet here id does to helpes have need to solve the base of the helpes have need to solve the termine helpes have need to be for the low fails.

The plots that came and level on the grows to look at Halass still cloaked body, look me they would search for Net but not to expect too much it was going to be hard instrugtion what chimate cloaks could be cloaked at and. I know they were refet

A pip went home with me on the train and even walked me up the stars to my close but after logened it and he thruat has hered inside the simply with drew and anrugged he shoulds to No Kit. Nohing

To access the form of both the process of the second of th

The event up the start Tock4 has the hand park on the lendings Public glock on the herrorer 1 bit better she to head to the herrorer 1 bit better she to head the start was not the who stark started with the start was not the who stark started with the start was not the started with the start was not better in the started with the start was not better in the start was not better the start was not better in the start was not better in the start was not better the start was not be th

I held he image of the sheep-woman in my much than tabled the same inservices in my mouth we when i a basin in the pairs where heldes had deal. This man was mad, He though himself a real werevoid an inimagnation of chimateweaters. And now held budget arother chimates. Shi weis-

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wall but sightly delivent. Lit never seen one

I thought of Heliea, felt her touch, del-

log? he aded he beathing labored as wound at his sale. The constor was filed logether you and I. We've no choice now

you remember? In the park longht

No I loted the other one. The human who were the beson 1 amelled her. Heles

otions into my back, our spents moved in our lowertaking. I breathed the consider a odor Female and melo

Helen is dead I'm Courtway Thrased

He was the warevail action the different

"I want touch you egen il promosi he and softy. I know why you left me it was believe in us Helies. They think were only folling them what we are. We re finally safe breaths in short gasp5

Holipa? You got confused by the chimera

rips They would do "NO! I screamed

or the trigger, hearing the coptionen thread times before incodiputing report hom the weepon. I triggoal and trigger on the blookend Arr (Nich arm and and chest, but that wee no christes and each but that had been telly rim dae trians. I hav see a wearwork? Had they dwage costed of had they ald a rich workd whom christerers and tarteson made the boundaries ar man and beats thany and veget?

I thought of my lear of Knt when held pounded on my door I had wonted about what he would do if he got inside not increang there was already one like him m my bed.

Not and Helika's kind verse outputs benefit by the human who bearead as them helika had left me because he was traden dancy to it human who who had who ele beastes me had ha tat? But had bearinght it was insidente bothem. Had arrongst those who lake like yea, and no ne will harty autom. They propand in the time of itself. Whel was another wereavel in a control of chiman?

Herifver there on the floor of the connide, peopled Hallwiss a surver heri. Someonewould have called the pio a when the auvolver heat and i had to be fer from here when they arrived who could inset? who was real when any could have be from the forman? What i a weaver, a view of forts, were a chemical that daguaged tem as a pio investigator?

Internal topic film images strengther that topic site array of contrast. It is when they contrast in the contrast in the when they contrast in the topic strengther topic site are an end of the contrast in the contrast in the contrast internal topic strengther topic site are an end of the contrast internal topic site are an end of the contrast internal depth in the contrast internal topic strengther internal topic strengther topic s

I writed gutky to the train algo, hear in my helio club of the passer i wondenny when i would have he has hear have algo i was ident and have noted career any closer than when I of their agent them. Parhaps they self-analysis would not nee ! thought as I looked down at my hands. There was no time to be solv his blood There was no time to be solv his hear.

I short and feel the air rush into my throat Breathing out, the noise sounds loud in my ears. My hands are thick howers my wrists News basings the south of the dat south distlement of host lear. The dat modes given alignly in the frate outside south modes light with the light of the south of the south region and to black in also due of the south light and to black in also due of the south charts of the south of the south of the south light and the south of the south of

My head swings slowly and I teel glass in my mouth is it really these or is it only fantaion that makes me teel (P) im not sure

Lalways thirls of Helea, except when I have fertaction to make me forget levolun tarily lehicidae teeling my bulk move in the right 1 had level her

The pranes, familinally have though not to the inserved with an experiment with wells stores in the server of the server different. They are intelligent and can be a different. They are intelligent and can be a who can experiment with increase focus a closely. Then, they work to even an unitability of the server of the prane who can be able to be able to be able to the base of the server of the prane listed. Been down. They are why they dolow means to be president as why they dolow.

On in it party to there it may the vector where had worked kind kears an encode as these Petroposite with the encode as the Petroposite work and the second to be thereserves. It have the exactly to be thereserves it have the exactly to be thereserves and the second to be the alive. The audition have full best to not be been as the second and the best alive. The audition have full best best to not be the second there are not been as the best there are not been and the best there are not been as the best the best and the best the best to be the best to be

Thisy will not make a metalog again if have no wereved amation mether time for it has been months single /d last lovad one of them. Unlenowingly lovad Linementals

The howel corners legal in shorkar this term closes to the edges of the herd 1 vapaval hera is builted before whore They are creeping towerd me from the guly A accele drifts to me Boht mate and female track me i control. They have not even bothered to carrier form downword.

I wish that if wore chimesa, not reality which stakes me But beam do not well, do not trink Bound ensmal

If only item makes it dear that it had lowed one of them it wild be madeau anong pour limit had have they on a have pour Gely back men along and along them to be the loss it want to not them halks that had be present must be not along any and the present must be not along any and will have they it want to me i dealed myself will be hope. They solve making were wider not with unrares we have of them have doing mit.

And as I teel myselt slip into the gasp of fantacin I wonder it will teel it when they optie to worry my those I with not DO

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INTERVIEW

LOBTINGED FROM FACE TO

Onw Why do you say we need a deeper understanding of space than physicalia typically have?

Owner Bo you are one of the methermeter

dians who feels mathematical things ac tuely exist in physical reality?

Provide well at the strength of the time of the strength of th



be obtenue from the picture we have now and carnot have anything but a methometrical and abstract character

Cever hou sound more like a philosopher than a physicist

Personal in a sub-law limity own throngs the driving factor of the pursued of a mothermatics that decent incern to be just address they chouse. Way a globa fine drivensonal when it might have been sevenderessoner? Seventhing spaceal about the structure of space and inner development. We could have been leven at workhow? We could have been leven at workhow? We could have been leven at workhow?

Ormy So are we any closer to understanding empty space now?

Personal We contributed that peaks and there are a clear daringhout between empty and Juli Yes Inderig a between explosite precisiva pacternia fail where a comparative precision and there are as the potential to have through and the association of the pacter of the and according to the through and the association of the pacter of the and according the the temptor personal means there are as and there before the comparative and the babas.

Otex: Did you thrik up twetors to help reach a deeper understanding of the structure of space?

Provide the "Walket are a schemark the descetting integrate different value and the of a many operation and that a schemark the production of the schemark and the production of the schemark and the production of the schemark schemark and any operation of the schemark schemark production of the schemark schemark the premay object of the protein schemark and the schemark schemark schemark the schemark schemark schemark schemark the schemark s

Once For anyone a frames with the mathematics, that is presty hard to understand To grade your own words. Which hope is there is the ordeney main or woman to find solate in the meaning and histmory of this world. If it depends on such absified and pomple sale meth?

Periods On Jeer On yes Well-Image Hooking of teeler organizati Theis of a Hong elevant mathematics. It can seem very obscure: comparison of a statistical and then the whole explosion chain but implicited to while whole explosion chain but implicited of where solves came along although elevand and made the whole thing more observed and made the whole thing more observed, and whole solves in tegra whole whole whole cooled and evaluation more more whole and allows an explored more than the

Draw It your dreams are reaked with twear theory what do you think would be accomplished?

Pennose One would be able to make predictions expectally in paticle physics Why do electrons proports and neutrons have

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the massess they have? This is totally mus-

Perrose I feel very strongly about the powerful deep role in the assume of

Onny Does the fact that Maxwall's theory

Perrose its difficult to form a clear view utarly want to know about them. I'd have a sist wants to see physical anawara come around in particle physics that has no ex-

relationship with twistor theory but it in to separd it as prossly overstand in its

Ornal. Shochers Havelands responsibil Of vis-

Permane The can't be right! You have to optimiser? Reel understanding rent all that close Ard if he were not i my personal Greek You've noted that Einstein grew to

Permosi: Ematern was very much a physi insight He himself admitted as much in

tage wort completely against the grain 1 was so merned I wrote a letter pointing chine, a Matary travel money for portion Qeess Munity Gell Mann told Onvolthal her

would be valuable to others it developed

you can do about it. Whatever you have charge your mind CO



CONTRACTO PROVINCEL BE

as a cross lower almosphere present the whether condenses, making the furnel watche The success within the furnel's semeasurable. Bupenette reach down from the befree of lowering cumulation thous alcude line obscience analysis or eleptent turks, elementary spätting out which or sucking up anything from the cyso of grosse to a galance of a Atomation is form.

No region on earth has been sluce to more transdoct than the United Batters where twetters have killed from piccial costs the taist 70 years than all the flocks and humaans combined Although Tomaio Aley when tiggings the Graat Plans, gets pairwhiled the hardest the most deviced by togets pairwhile the there that the piccies of the country prace where tomations are least expected and where tomatios walches meet often one shored

Terroduction in their hand suit of hedre gas subservery them is the time to a contexture subservery them is an stary on the provide the a low second to make that hears hours they can array a from a low lose to more subservery and the second second second starts who make using a subservery and starts who make using a subservery and starts who make the transfer pair soluan may at special of more than 300 miles in hear. The mark terromover than 300 miles in hear. The mark terromover than 300 miles travel in packs, one following another striking different but parallel paths

Wess is not store in thyring to curst these montheses at the Massael Soviet Sortins Laboratory in Norman, Okdonom mettage and the Massael Soviet Sortins accessing and the Massael Soviet (1970) and accessing in approx by Doorthyre (fest) dag by Doorthyre and the Orthon and Soviet Soviet and direction (temposture) rectain web available) (processing with loads) web available) (processing with loads) of Latency and proceedings)

Bascas TOTO, scientists of the Netional Conter for Almosphere Research in Bissder, Calorado ale writing on mathematial models and a spercomparten that will combine forecasting theory with plactical mesosology Such work will interfum all weather condictions

Researchers at the New Makeo InStabus of Minng and Schniegy New West wood orthal applicities to harnon tockets loaded with problem like logals of towards. At hough the tockets have visit to prove them help improve photostomic of tomato the help improve photostomic of tomato the tockets and the top the total to the total approve to the total to the total approves the total of the total to the total approves the total of the total total approves the total of the total total total approves the total total total total total approves the total total total total total approves the total total



Unted States Most promising is a system snown as NEXRAD, a computer-enhanced version of Dopoler radiar

Depoler racher cen retain chouds als far als 540 miles away NEXRAD will be able to since a source of in any director, swifty assimilating data such as wind, wind shear, furbalance, half, and temperature and dewpoint differences

Another sid will come from a system called WHPS Bo-Andonced Westher Interactive Processor 3 System II terl provide data to make cause, short stems to more starth at those for terradees when within terge of minute on even second could stee lives. Using a GDES society anterva and a triviau with the correlates at the Karsiss City Encosis perior at AWFS will be in country specting and university decida at with low of atoxi.

any period to accel The packetow for Steve Wess on May 31, 1885, was that the use of these licit holds gen laymosity in 6 fatase flow to the until 1990 and beyond that such theorem and approvements will be related in the hardwate. Despise all the benecisting advances that have been made in the hardwate hardwate, pendicing the accel there and place a benado will her impossible

Act 32 her Weiss beck a hant look of his state. After puzzing hours of machily, owarything suddenly septement to come to a bos part aast of Claveland. It was unbeanable. There was suddenly a hire of the people meging like army diversite. Takat a Philapagn becataler later. The rodar acrean isolect like it had meeting.

Webe out-touting online for a priormany percent water much that he dispetd don't of atomady watch moder is water watcher increasing offer rear the superoff any second second second second second water increasing offer rear the superrobust of any second that any second second second second second second second second models proceptation records any second indicates proceptation records any second water second second second second second water second second

Ar4 15 M Wess called Cleveland foracases Marvin Miles who confirmed that the western point of the front-lattick was their Actors and moving restward. Ten minutes later Wess typed out Tornado Watch Number 211.

IN ST. IN SULLETH-IMMOVIE DISACCENT PROJECTSO TO SHARE AND ADDRESS AND ADDRESS AS BALE AND ADDRESS AND ADDRESS AND PERMANENTIAL STATES STORMAN CONCENTRATION POSTICASE OF ADITION CONC POSTICASE OF ADITION CONC POSTICASE OF ADITION CONC POSTICASE OF ADITION CONCENTRATION AND TO STORMAN AND EXAMPLE AND TO STORMAN AND EXAMPLE STORMAN AND ADDRESS AND ADDRES

12 CHN

Your Intuitive Self A Cosmic Link



We think addy in norms of receiver light yeas rev both howing advectors of light yeas rev both howing advectors of sever here an unbeed speek in a conversal sevwere here an unbeed speek in a conversal sed energy Armanik, conversions exercised in the through year. The conversion ever of tends of the speek results are used able with the conversion for a govern the phenomenes of the armsets.

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The arrange self entring in the higher levels of your canaciazanesa is pocential with the setal force which you need for persons adhevement

The Rosicrucians Invite You

The Residuation, a worldwide philosophand organization (not a religion), have fee ensures encouraged and aded men and women to penetrois the unsweeded attribars of reli

They meet you to obtain an attractive free book, The Mastery of Lafe. It tells how in the pointer of your own home, you can ducorrected use material laws for the attraction of your charge. While the

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- The Reservesant are:
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TOPINADOES LANGE HAL DANGEROUS LIGHTNING AND DAMAGENG THONOGRAPHICS INVESTIGATE CONSIDER

THE TORNADO WATCH AREA IS ALONG TO STAIL UTIL MULES NORTH AND SOUTH OF A LINE BO NELESSOUTHWEST OF ARTION CHIOTOZO MULES TOTALLO DEPENDENT AREA MEMORY

PERSONA IN THESE AREAS SHOULD BE ON THE LOOKOUT FOR THREATENING WEATHER COMDA TIONS AND LISTEN FOR HOSSIBLE WARVINGS

After the (prised) work was released to care trappersible for issuing warmingwhich would be inlighted by the public by the National Oceane and Arropphene Archimistration (NOAA) worther safet. "V amaker radio operations, and the police and other public officials, as while it the Directory rev threedowing Statem in each of the affected areas

As Vessa tapped out has warning in itomsay. Only Linda Duay stood in his victure. While har three childran and one of her regificers lide scorepend accurative, she look a palaher of haddbock out of the raingror Sonchs Statisemith: a live blocks wway rotace in by warhing.

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Lode Gazya dop began to vienees and cover for no apparent eason. Then an anormous thandencing notified the house Al the lights want out but because the was not uncommon chang storms at the Cazya household. Lode had sconces swetteble Ske began to light the candide. Jotho chidrons delath.

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Focus Linda cowing thatfocally before the height of the windowall to Borne Suck high class. Then the reached up and height is downward until the baby was on the floor She pulsed the child protocolinely under her cheat and crawled toward the kitchen and the onlike dowr.

She was shocked to find that the other childran could not op/in the doce against the suction. Shi shelding Borne Sus she tagged with all her sharight until the doce opened. She and the tour children sld down the stores to the only.

In their trauma on the centrer of Their/Rontand East Peak street. Sarving Statform/htour months programs head the rose Elme managed to statement of the Actions infotion of the street street. The scene was being table concern with a street trait scene was being table concern with a street trait scene was being table concern with a street trait scene was being table concern with a street trait scene was being table concern with a street trait scene was being table concern with the street traits and was street as the street trait scene with the street traits and the street with the street traits and the street with the street

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Magnivitie Tie Natorial Weather Berwoo stators in Cleveland Erie Youngetioer and Histologin winit trying disporably to lossp up with the fitod of reports from spottes and amelieur raido optimi fors The abuation was changing from minule to minute and geting the information to the public was ready imposible berouse event present lines ware from

Marian Maller in Claveland got on the phone to coordinate his local shallow with the National Weather Service Office in the "Surgeover arport Societ Church Hocker in the Phasingh office Birth despersitely needed "Surgeover to fill the gap between their entrants' Built the line was check Lightning and winds had completely shut down the "burgation taxiby" The computers had created, the phone has used own at proceed to the outport had not powerul tomadoes in the history of the Linkal Datas was sweeping northost directly learned for proto-

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Linpredictably, the storm would hit one

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Despite many such chanazos acts the statistics were girn 89 people dead....24 in Whastanci action: Twivein Atten Fourtion in Attantic Nins in the Beaver Faile action. Fillerin humbred insured Sasteen hundred homes castoped. Well rever \$200 million in proceint campage.

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It's worth the price to have at least one thing in your life that's absolutely perfect.

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SAVE 503 ON HEWLETTPACKARD





CONTINUED FROM PAGE IN

ourrency as we know it today. That is the wave of the future."

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And whitk close (creativitie ace as the big meditiment of the blue?" Thread in specernow-mention white white the big hase, build holes there. I once yoked it wouldn't be long before McScenict's lookout a functive on the mooh "buildh the piet to ace golden andhes up there. Too

WALTER WRISTON

Water Wresen is widely acknowledged as being recommobile for transforming Discorporty. Now refined, the is chain men lockness leaguerty on transcal lopics and has pair written a book. Also & Other Four Letter World Elegent & Row 1066)

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By 2006 this type of global electronic manachines can only accelerate, "to prodoes "The profession of futures and cobone materies will centerly contrate to get more company," in response will strett will be operating 24 hours a day—perfere to be need to the acceler.

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INDREW TOBIAS

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What will propre invest in? Tobias beleves the source the commodity the betar the investment. A function years from whet might mean of and goal will be upsinged by even near substances—such as week and polyper.

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MIKE SHERMA

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He is confident the exchanges will himde the increasing volume of shares tacked. Once in the late solves when the back officeowere still showing piper solund, the system broke down. But now with elections used, there is no mobilem. Anothy the influence of a backgream outparties the week's and advantage of the back term the general up to accounted and back term the general up to accounted and back term the general up to accounted and backgream says. Of the Usuary per weight the parting out the copying on the term says parting out the copying on the term says and an advantage in the term seen to a seriestable backgream in the term seen to the manual term says which the consertion manual terms of the conservation manual terms of the term seen to used an advantage to the term seen to used an advantage to the term seen to used an advantage to the term seen terms of the terms of terms of terms of terms of terms of the terms of ter

Breman angles out one stamme stee he finite will come to page Umla Awin 30%, will comet its phrase electhrons conseque to describe the home of loses of two haves. Steering says that home end work lose. These will be page by the use computers to communicate be treed ofbots as we also take the page contexturbation. And who the hell works to depresent outpet.

MALCOLMFOREES

Whether thing over materials d'main au balance in power brokening ower lunch Matcoin Forbia spharmas the interpreneural agent. The founder of the housing successful baueries insignance that better publication lately with the moto. What is name Forbial case. And to Forber, the Name of business is—created in an allocal nualies conferenceso.

There is an adoma eachings in the next hundred years, the sconcere would have to be related. The way it evolved it would be along this babre would be doing anything other han battering. But it there and two' what wai have in terms of trade will be smither to what now exosts."

As to projections of a costriber boots of probes is significant. Siven with isoconner advers and origins becoming involvements orminal. Following a mean caller there to advit origin the age. Be very here to advise advers and access of one provide in a cost of here are accessed of any borter manner adverse and access of a cost of a cost of adverse and access of a cost of a cost of adverse and access of a cost of a cost of adverse and access of a cost of adverse and access of a cost of adverse and access of a cost of adverse ad

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LOUIS RUKEYSER

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He prefaces. I am wary about any prediction that's verifiable in less than a cantary so about this one Livel contribut.

There in Tecesory product for the very final of 1000 will be logated whoover motion communications are process interaction (2004) will have when we will when over the very dools are to coccessive when one that our is it may also a subtion of the second product and the copaliant will share and baseportment of the ophical months in surver and baseportment of the ophical months and baseportment of the product is the second product and the second product and the second product of the ophical months baseportment of the ophical months baseportment of the product baseport baseport and the first of the ophical months baseport and the second baseport baseport of the product of the second baseport of the product baseport baseport.

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He continues "Another bailing paisanlead prediction has the Well Steel of 2088 is the fibe painties and deversity of produltial and otherways will contrain be separat Dei of the giores of a market contradicentrated within a field particular the goupather. Which is first particular the goupather will be first particular the goupather will be in a first particular the goupather will be an oversidence that particular costaged of a so-considence that particular the most and/uncoden parts there there who managed to bypass the convertional solutions market particular the particular particular particular parts.

But have will be a limit to whist technology on one too With the heigh of twenty latecentery abcountiments and technologies for dealers manual bracades will sell not be able to fell you whet's going to happen a week from next Tuesday. If I am wrong be sure to fell me incue DD

RANGE CHARACTER								
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Readers' onomais



By Scot Morris

One timp allocal this plot—you get to hear from a tot of inactions. The pacetosis that are presented in this column and in the book. Only diames (Hot, Allahahat) & Winston, 1960) have inspired many of you to cend me new validations on some classes themes. This month is clavated acclasses that most the book of the bors Genree mailtag.

1. THE OLD HEAD-THROUGH CARD TRECK is to possible to cut a hole on a 3-by 6-index cand that is big enough to put your head through with our feering the part? In the classic allower (poge 36 in Cervis Quartes) you must follow the stress thown in fluctuations. Theody 4 all ngft:

Repeatery, Charg Harvasch of Calamowine Fordal som to a bolkch the we had never now before. It seems all bol simple is bar neve, so when of it a copy to motionsolical games gain Mattin Canton to Prozoit herational deny Stock manyer that the head-through card prozeit is frait acceptation "second solution. The first acceptation "second solution." 5

2 SPLIT ALPHABETS The is one of my knocks public to this one in fact, depuised in the infloation to Otivi Garpai Draw the alphabet as below with some letters above the limit and some below and then als. Where does the Z or, and why?

What makes the such a special paceta is that the senter you and the Marder II is An educated paceta solver has so many false hypotheses to play with vesset—companied patients, odd—even patients, permit markets, the homeon is as senteria a problema child could had be clust shid the hotters into bus populseboose with denget less and faces with curved has

Adolph O Goldsmith of Kennett, Messouri, has sent us two clever variations 32 CMH



Businatores 1 (hypugh 4) the old way of doing (he head-fitningh and line), with Horwick's breaktyrpugh aborealive (5). Bottoro right, figure puzzle by Charles Olicer (question 8).

on this classic. In each case, where does the Z go, and why?

BOD G JK PD TUWW Y

3 Terry Ros of Superior Weconert, carses on the alphabet theme by asking what these indexs have to constant

BCFHIKNOPSUVWI

4 In a famous algebra puzzla, you are asked to prove by apparently correct. logicité stope the 2 – 1. The failuary tains out is bait hait one stop requires you to divide by asso a introferentical no-ho Gereil Scheuteren of Broukien, New York prazile Using the same precedure bait making as a guarderig kels hain (* Dot M. and Y ass any two whole positive infragen)

X <y< th=""><th>(Given)</th></y<>	(Given)
$X^{2} < XY$	(Multiply both
	sides by X)
X' - Y' < XY - Y'	(Subtract Yr
	from both)
(X+Y)(X-Y) < Y(X-Y)	(Factor)
AX+Y < Y	(Cancel out the
	X-Y term)

Thus Y plus X is loss than Y alone Whereau the fallers/?

B Robert S Rees of Los Angeles says there is something significant about the following time and date. What is it?

20100 a.m., May 4 A.p. 785

6 L. J. Upton of Messeauga, Oncaro sents this complement to a classic leatured on page 3 of Oxes Dames. What is this rest letter in this senar?

EOERE_

7 Pachard Daton of Wansigh New York asks "What is the next number in the following sequences"

42346239_

He writes, "Hint, All remaining numbers in the sequence, following the one in cuestion are zero."

8 In the graphic puzzle at left Charles Observed Toronto daks us to figure out the pode that is used and to decephar the two works.

9. Nobi "tothgahas who wree a game outrin to the Japanes scance, magazina (UAW) calls the interaction of the second scance, "Mail names about a scance," (Mail names about you point the empty control "tothgahas was improved by control tothgahas was improved. How and the point of the empty points, "Mage Wein" Mail 1000 (Long Andus, Drivis, Mage Wein, "Mail 1000 (Long Andus, Drivis, Mage Wein, "Mail 1000 (Long Andus, Drivis, Mage Wein, "Mail 1000 (Long Andus, Drivis, Mage Chern, particular, acent at the nath. How weil down?")

Each reader whose original idea we used the month will receive \$25 and a one-wer subscription to Omor

SOOTT KIM S HAND THINGS

You know the grup of two hunds shalong Whet is the grup of three hands shaking?

Line on La zen soon out in wen, the innover would be the fault photographs on the page. Soot Kim of Stanford California, got this uses and considers that in an ober multi-hand shake all the hards should be symmetrical. The steen nearly thiny different three-sided shakes. Kim tot us











Tab Joar exemples of Inpile handshakels. Can you hed more? Bottom MY. Yoshigebaro y Imaster prece " Bottom right, pipe cleaner hourse on on mpissiable park bezich. Hou was a const?

With the protocolour to be a two persons that the operation that we define and the operation that we define and the operation of the persons is the hand colonia to the define the operation of the the operation of the operation required in this game? Kim suggests that once you get good at it, you can exchange fingers without breaking contact

In the second state of the second state of

or photos of other mub-hand shakes which we will forward to Km

Solutions appear on page 124 DO







RECIDENT D GAMES FINCE 1225

2a Below to thyme with the other lighters below the line 2b Below Latters above the line, when spoken begin with a vowel Those below begin with a constraint.

3 These are the clorificits that have onelease symbols boron cerbon fluorme hydrogen odms, potassum nitrogen, on ygen phosphorus sultur uranum, vonedum tungsten and vitrum.

4 Because X is lease than YX + Y equation 1) X - Y is a negative number When the X - Y isom is conceled out you will be velong by a negative number. When you clivice an negative humber when you clivice an negative panegative number, the decision of the negative runner, wereas Thus X + Y < Y becomes X + Y > Y This hence he unserve here is to prove

5 It begins the linst second of the second merupe of the braid hour of the fourth day of the h/th month of the sorth year of the second second end of the walkin parking.

6 These are the last letters of the first two numbers one two three four five The next letter in the same is X.

7.8 Each number represents the number of letters in the question. When is the rest number in the following sequence? What (4), is (2) and (5) and (5) on

B JULY and ILLUMINATION The lower halves of the flecters are the key to dolving the puzzle. The simple code is effective because we and to focus on the lage of location when trying to identify them.

Below is another view of the imposer ble banch. As for the number puzzle. The



answere is 12, not 15, and there is no meprint. The 7 in the loss of the structure function is a loss $-72 \approx 27$ 4.5 $-27 \approx 38$ 30 $-16 \approx 21$, $36 - 21 \approx 45$ -25 = -38 -30 - 16 -13, $36 - 21 \approx 45$ -36 - 16 in $30 \approx 21 - 15 - 75$ $-36 - 21 \approx 45$ -36 - 16 in $30 \approx 21 - 15 - 75$ $-36 - 21 \approx 45$ -36 - 16 in $30 \approx 21 - 15 - 75$ $-36 - 21 \approx 30$ -36 - 16 -16

HAD GAME Four Example 5124each dge is off by one. On the fast we thereps it sets possible to get more than one trigger into its correct possion. Series for the second exchanger. The firmining three triggers can be set right with a more mum of two exchanges CO





medio syste he saw the planet Mass, red and determine in the deriverse of space Then buy years software the Wingh Breden first assisten fight young Godded magnetic which het ookid himmosh and observe for million miss of angelenes to that harding learnings to the software of the software of the software for the software to the first weeking to turn in women hits successful acchericity and the software successful acchericity and the software became the inferred of modern includers.

And whe about the other manonial loads in salow explanation. The Soviet User? I discovered that in 1885 which Gottate in the second second second second second factors in the second second second second factors in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be grown allot in a globally has enhanced to be and polariting displays of social engines file whe paned by a priord bench of socialized howed all shock to second-inter

After the coanst regime was overthrown Taxihousky came into his own. The Bowet Union was the first nation to lossely endates the goal of manned spaceflight. Then creds was Taxibourky in maker plan, uskal the "Toursen Points" which included deviolation a rocket plante, space a last closed cycle support (system) is space at a toms oblives on other plantes—all in 1930. And the good the plantes—all in 4930. And the cool of the plantes was have. Touknesky fact, Reclands Bandas had as the index "Cooled by scarefulls, politicity as a onlying cry othood by scarefulls, politicity and Linear cooled close throughout the Dover Linear.

Weak OV. There regress the activties of the Yew countries in (manned spacetrypt) have second to face to be used to the two second to the second back of the transfer and second second datinations of development, the Used datination of the second second second vectors. But the Source these short considerable preserves and where per defectors about second seco tions-capable of housing large crews-

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"Indeed" the OTA seport concluded "the Salyal space statum may provide the core element of a future basis necessary to ensure the success of bitum times to Mars."

Mass it was here at he begrinning in both space programs The Pausamin during to it We fumed away in so doing we load applied our organized satisfies and applied that the plottaber and botherment on a scale of time and space that has rever below been attampaid. There is all time to serve that goal and to rever the the states and gasardeut of a diversity Space Age with a mesion to here and same OD.

Adapted web parminison http://dameys.ileyond the Cold War (Mill and Wang 1985)



LAST WORD

By Tom Waller

 Imagine a neristop, straight-ine route to the other side of the workt. J don't mean one of those groth-circle routes. I'm taking about a taneed straight through the earth. Enably, after centuries of clearance inte-Freech and Coginel paramitteriate lake legislatillo taggit work on the Channel lake about other turned activities. Here toos for fact transmitteria Activities. Here toos for fact transmitteria Activities. Here there is a second to the second activities and street protocols. The publicant is that second is protocols. The publicant is that

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And believe the not, the total time bevise try to the other sector of the earth is only 38 microstructure. Lets there there it has taken the overtage state college graduate to next their action. They won't twen here show the have a maxim.

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