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FIRST WORD

A UFO FOUNDATION Working together to find answers

By Gregory Benford

FO fans hele acentes, and vice versa. Or so it mutually acrimental exchanges, in person and online allies I get the definite impression of angry people shouling past each other to little effect.

There are good reasons for this, not the lead of which is aimphysical, im sympathetic to the agrammit the nearly half a cantary after the first "tying saucer score," we have no codd, physical, genesity agreed upon working. Studies of ghosts have the same trude No dat, no scenee

Het only a resh sected physicist, they quale dend is easi or in the leading rub interes-fiction ble ci writers of his entration. His entration for only subtified by optimized and a sector by the sector subtified by optimized and a sector by the sector subtified by optimized and a sector by the sector subtified by optimized and a sector by the sector subtified by optimized and a sector by the sector subtified by optimized and a sector by the sector by the sector subtified by optimized and a sector by the sector by the sector subtified by the sector by the sector subtified by the sector by the sector by the sector subtified by the sector by the sector by the sector subtified by the sector by the sector by the sector subtified by the sector by the sector by the sector by the sector subtified by the sector by the sector by the sector by the sector subtified by the sector by the

Personally, I think the estaterestinal vasto explanation of the widespread reported sightings a quale unitely-back not sightings at units in science. highlinese must be checked and rechecked Sciences, not proving them, for no entrats speak of failinging theories, not proving them, for no proof is were final. A theory is only as good as its latest rub against really-

The aliven visitor theory of UFDs has not been faished, but it has few advoceries, perhaps none, among scientists—sind they do no research into e. So the subject is mited in coverage we media such as The X-files and the Neconal Encover.

Instead of the high-decibel cat light we now writess, how about some sensus study?

If the alien visiter explanation holds what, then than frequent visits provide spatient () assume they don't have faster-theoright taxed for these faster-theoright taxed the gataxy for dimen is fastioniates) (Devicue), they're milding in bogin for oscientiats to get any physical proof of them. Why? We can't any—alients are they're

But they can't brush away all their footprints, and a serious



LFO entrusios should be willing to track them down. That's where the scientists come in

To be taken sencesly by toienters. I think UFO tarre should suppert-obviously including funding-research which could uncover convincing evidence. UFOlogista would gain both cradibility and, perhaps, some solid arguing points.

They should by thinking like scientists, too. Aliens might do anything, but they need a place to skeep, regioup, refuel. Where?

There are pointed leavy point where UFOs could convensely base Dobusualy, the monprobaby on the other side, to be secretive. Searching for them there impose a cardial inalysis data acquired in 1964 by the Chementries apaceraft. Such scruthy is going on right now, but not with an agendia' or swarting for a UFO base For quells amel course, a single data at the data and report daths.

Think further. There are convenient places to park a spaceship narby The luner Lagrengian points are stable zones, leading and inaling the moon in its orbit. A base left there would not chift from tidal tugs. Are there UFOs kulting there?

In the early 1980s two astracemenicological for single objects of the Lisgrangien points and hourd holling grangien points and hourd holling been motors. (See Jacus Weinne 56, page 453, They dot the withdot UPO classes mmittil His UPO community had appled the tee involutions of collient them work cost, they would at least have almost product the page of the series of semi respect.

How about searching further an eld? Throughout the 1980s Michael Papeganns of Boston University argued in scientific purnals that starfaring aliens might wal use the asteroid beit as an exery residential zone and acuroo di new materials

He proposed looking for them by tracking their weath twelt, anything using energy eventually generates an etablic device cleave coder than freezing, so her stands out. The proposal was technically sound Still, Paragremis could not at NASA or NSF landing.

Enter the UPOlogists A foundation dedicated to resil, objective research which beass upon UPOs could fund Pepagtarmab Intered search, or other such Ideas The foundation would further true scientific research, be cited in publications and build bridges to a vesity skeptical scientific community.

Odds are they'l find noting, of occurs. This histopens all the time to scientists. But the art of secolong itself is notice, proprisive, and might just surphate everyons. I urge the UFO community to occuside resolving out in this way. A senses mattitution would be greated by far more respect than is the shouling metch opens on serve DO



Preside Michael Pressent and Strategy Strategy Preside Michael Dest Without and Price J Businian & Wildow sont of On The son Officer

COMMUNICATIONS

READERS' WRITES

Sounding off on CDs, learning year round, and deciphering an E T's message

Big Thanks to Prevaler

Parkwater [Last Word, April 1995] and fat people complain, they are accused ment accely, and recreationally. I hope

Barbara Turner

CDs or not CDs?

February 1995] One area that noeded to be addressed is that of time. I will Jam a Wakagy on why to play it at least three or four times a week for a solid let's compare the sound quality against my CDs, which dott it crackle and has the a bowl of cereal. I applaud the lous here. Beardea, in another ten years, they'll have developed somefaing to make my CDs phaselete

A E Sperrow Laxington KY

Time for Learning

I offer new arguments such as these in "Learning" in your April 1966 issue for or against a few more days of school I and those, i remember my stay in The Netherlands: I put my children in Dutch than they had in California, they wind helf-days on Saturday and they ool as their parents. And guess what?

who parrect stand it. They are the ful

Dr Richard K. Thomason

Quartity of school time does not necthe tradeonal family vacabors and all volved in any extracumentar activities victuals, not educated robots

Alma E. Motales

What Would You Say to an Alien," [January 1995] shows that many peothem With luck, the first mossage we route here for many years) will be decipherable, and communication will be tures 50 light-years sway My fond some hot dog cryptographer can decimeasage from outer space be amilarly

Alston Levesqu San Jose, C/OO

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⁴⁴Computer, bring me the future...⁷

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FORUM

WE'RE BACK-AND WE'VE MISSED YOU Some notes on our change in format

By Keith Ferrell

A faw months ago Omer changed Evolved monthy publication and every of the magazine by subacriptication withing our block to electronic vanues and quarterly superlauses of which this is the finit

These declarans were not made lightly, not for all the exclarered for rise weeknik carry, were the callarge accompliance without poin. But change is always, accompanies by directbox, and avolution news occurs without some deplacement. To these of you who find a wold in the continuum white onco you haid your monthy. Gmo, I can only minkly as for your patients, which I thinkly you will find reworld with these pages

And to those of you who sent messages of support, who undestood what we're seeking to accomplish with Onte in rainew and various incometoins, I send our grateful appreciation. Your confidence in us maaine allot.

You see, we miss our monthly

If you haven checke at our Web sth at http://www continueg.com paper prosence, too Bit Crins, more than any other magnities, has always had to eye on the future, and for creat the future really up now. The refuture of leformation-accelerance is itself encoded and we would not be creating and we do that while any comparison of the set of the set of the set of the set of the creating and the set of the set of the set of the creating and the set of the set of the set of the creating and the set of the set of the set of the creating and the set of the set of the set of the set of the creating and the set of the set of the set of the set of the creating and the set of the creating and the set of the

Table what we've been dong in faut, prefy comitantly since we were last together in paper format. We've been designing, building, and refining cur preance in cyberspace. By now many of you wil here witted our site on the World Wold Web. If net, drop by our loosten at hits, Jawe ourmmag com and take a look. It's Omis Thereis noting else guite like it.

We were to use our the series of popularity to create a real Creat continuum, on interactive electronic unverse where seat electronic unverse where seat and flatton, speculation and commentary, demains and reality pertings, and provide, instater and alternative could come together, collex, coalesce, whe want of upper you a time machine of outs, a vinited for expering all of the continue both transmitted for the control for the seated of the seated of the population of the seated of the control for the seated of the seated of the population of the seated of the control for the seated of the seate

We think we ve succeeded, but the judgment finally rests with you Your participation in our electorics ventaries all with the paper imagiance, is viait who look forward to your comments and exagentions, your insights and officiants, and assume you that they will be taken seriously. This is your stip as well as cous ab office in

Nor have we coased to develop and expand our presence in other online areas. By now, Omni Online on America Online is among the best-lestablehol of the electronic magazines, growing dely larger and more rich. We remain committed to that presence, a commitment mole possible by your entrusiant and nectroination.

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Imaginative evolution, then An Orice for the twenty-first century-and beyond

Welcome back. It's good to have you here OG

The Winter 1995 saue of Omra will be available on newsslands by December 5

MINGS

TWENTY-FIRST CENTURY JET. The advanced 777 is designed to please pilots and passengers alike

By Denny Alkin

he last all new arthrest dasign of the twentisth can a sophisticated computeraided design terminal in some Sharik Works engineering dapartmert, tak on a yellow notepad in an office at Laited Anthrest headquirteen in EX Crow, lince

Executives from Boong, Prati & Whitney and United and down on October 15, 1990 and destched our sample goals for what frey hoped workd boorne the orowing achievement of arliner technology is the century the results Boeng 777 is dehriely advected avoid it in the world, powered by the biggest engines ever thed to an after

"Working together" because the moto of the teams from all the companies involved at the design and multiclastical dist design and multiclastical dist rays team a rather logical physicophy, but previous instruct deagrac came from an "sogneering list" starpopt. Hom repetition "starpopt from the starpopt of starpopt of the starpopt of the agrac came from an "sogneering the starpopt from the starpopt the starpopt of the starpo

Berne of the design charges were major such as relocation of the heing panel or it could be reached by standard hydrant trucks. Even seemingly minor charges such as easily instance alle passenger insolny lights (in operation has really instance and the instance charge on other arithese, meaning there's no way to fix a bulb in flight, make for lever passenoer fluggrades.

Overhead storage bins, the arch-namesos of the heads of amone over five feet in height,

have been designed to retract up and way from possenges, allowing a full fair bet, four inches of headcom for cenara robin passengers. The sides of the fuelogies are needly vertical at possenger level, giving more allowlider room than or smaller anorsti. Even the solid seasts how base insolated to over how base insolated to be all optimized to be an over the solid seast how base insolation of an over development. The solid seast how base insolation of the solid over the solid trablece.

Possengers will ind more to do at the GO has threads a Linkto at the GO has threads a Linkregard to the second second and the expension second or on the backexpension second or the backexpension of the second second second second heast. Using a controller stored in searth secind sermerst, perpresentances will have access to presentances will have access to relia of CO-quarky audos, and videogeness the controller show doubles as an ar phone, and doubles as an ar phone.

Advanced technology extends into the resilt of fight control. The 777 does away with traditional cable and hydraulic controls and uses fix by wre (FBW) technology where express are transmitted electronically to other systems The use of FBW in artirers has been the subject systems allow the flight computer to membe pilot inputs when a take the plane out of its normal fight envelope. Boeno's control system always leaves the plot with final authority As with similar avatems, if the pilot attempts to overspeed condition, or to benk at a promo acide. The policity will warn of the danger and try to compensate However fittere's poeffections and the pilot needs she can do so by using extra THE

To clear abuse manusering, the FBW flight control system provides the airner force feedback on the control column as convertioned arcroit, Alex, both asts of controls physically move when adjusted by one pilot or the astroit.

The first 777s went into serwoo with United in June, other domestic carriers won't start flying the clanes until 1997 DO

777 is packed with advanced technologies path as composnests, sophisticance flighranagement compatient, and an autorable effective

MEDICINE

EDUCATING GUESSWORK Euzzy logic and the body

By Steve Nadis

amputers have done mervels for accountents and backets, apphonts and engineers. But can machines designed to calculate in numbers help physicians negotate the decidedly oney world of with the aid of some fuzzy force Fuzzy logic is by no means

the help of factor

ception in the 1980s, fuzzy locie



subway braising systems. Loth that "in ris current practical applications, higgy local, serves to provide methodology for computing with words

Computing images, such as now facing researchers who hope to harness the claratostic Keller, a computer engineer at logic comes in Tumors, for inthe University of Mesouri notes, stance, are not periodily isoped might save more ives CO

"Interpreting images is a lot harder than controlling a valve

Not that is easily what Kaller do Before turning to medical apwriting fuzzy "target recognition" and other obstacles is not that different from finding tumors or

For now, University of Misthe examination of mammograms to develop computer programs that can provide the blend of ithumans rely on to solve difficult orobiems "Insteamal algorithms each stage of processing, before all the evidence is aveilable." Keller sown "Furzy alwythms allow you to carry the uncertainty insing decisions until you have more information." This approach makes serve to Bil Caldwell, leboratory director at the Center because if approximities tats, trying to defer fittel subp-

puters should be able to evaluate and perhaps more thoroughly, than celculates the size, shape, density and border control of a oate whether it is malignant or bereas Everyteig is a mater of or perfectly smooth. "You can amonth him and put a mamber on hope is that a computer might be able to spot score that are too tect This is important, because cet the greater your chance of curing the petiont

He and Keller are also trying processes that are now extremely Indique, Techniciane, ing through microscopes, trying to soot epoprmaktes on specific genes of specific chromosomes that could lead to cancer in parecular, they look for amplificabone (estra copies of genes) and deletions (missing copies of canneal. These defects become mosome with colors. An excess of red, for exemple, may success The magnitude of the amplificebon is asuated by the amount of problem fuzzy logic is designed to address. "Humen experts rely may provide more quantitative moasuros, 'Keller notes

Jun Bozdek, a computer sce. artist at the University of West Finde, hes no doubt that comdorsn't mean doctors will turn putors" he says Assuming he's noht, computers will not be maksoon. But given their ability to properts yest amounts of data in fulfill a more modest objective Fuzzy-logic computers may help quesses-quesses that just



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the line



NIND

NETWORKING THE BRAIN: Tomorrow's computers in a lab dish today

By Bennett Daviss

Into a small recording chember, Guerre Gross alips a gase pare atched with microcircuits and randomly seeded with a few hundred neurons from a mouse entry bennin in the chamber, 64 my dectrodes reguster electrical bujos, spontenecusity, the bells begin to communicate with each other 'And now,'' says the Germantion neuroscienta, 'we liaten '

Nerve calls in collarie Network netroscientists hope to develop Includuos to allow inplaeting of electrosos lefe theals. Contraction of the sector of t

Gross and nine fellow CNNS researchers have learned to keep cells site in outane for up to 10 months, entrain them to a electrical patterns will develop among them by reading cardem agents from travical pals. The investigators study everything time how extended a caraeuse. themselves to what Gross suphremsensity values Table 1364 and 1464 and 14 probabilistic interconnections, and switching of interconnections. Its a very plastic system with more clouitry thet's constantly charging, rolif under your nose."

Computer angineers are paying close obsertion. In obserting musical networks, they had only the single-cell model. Groosanys New their work has slowed because their model is incomplets. They know how to minic a rearron, but not the system.



But shorts the loss is seen weak or is of the the second second

Gross collaborates with several software and computer designers. "Within a few years, the emergent properties could waskly be appleed to computer design." Gross says, "teading to very pissitic computers—and to an understanding of the mechantems of himse intel parce."

Crosses experiments in "fault obtaince" may bad to now ways to protect people". We know the struct the effect of carruidant and the second of the second second and the protect back in the head vestmady such in neurofield to know how much of a second neurofield potent to catalonization neurofield potent to catalonization mainter with works on the second weat weat works on the one of the second neurofield on the second neurofield on the mainter with works on the second neurons.



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WHEELS

CYBER NAVIGATOR GPS and CD-ROM work together to help you get where you're going

By Denny Atkin

It's been used to rewygte the high sees, locate loat hiers, peakcide application, guide anpeakcide application, guide anplanes in tor adle landings, and target processor borrba. Now the Global Posthoring System (GPS) can help you mock down the seport in a strange only, find your way enound Wine Country or just locate the permet bizza before

Pienenr's GPS-X77 system coordinates a CD-ROW database with installes Pioneer's \$2,850 GPS-X77 system gives your car a processo moving map display sentiar to the cress thet guide at fighters to ther targets. The four-piece system includes a low-profile GPS antents, a weekee immode con-

information from GFS sateflites, providing your car with a real-lites moving map. trol, a color LCD monitor, and a control unit containing a GPS recerver, microprocessor, and CD-ROM drive

The car's position is continucuply updated using bite GPS network, which consists of 24 solelates, a position carter and position a very sole carter and contain a very accurate atomic cach, the GPS accurate atomic react. The GPS control control carter, as well as a competier and match the GPS control control carter, as using a consphere conditions, and a conceptine conditions. the information to the satellite's computer. The satellite can be! where it is the sky at any given microsecored by cross-relienceing this data with the time indicaded by its atomic clock. Each satellite continuously trainers it posteria and the current time.

A GPS recover works by tetering for statilities that are scheduled to be above the hotbon and time of transmission with its own intranal clock. By comparing multiple signals, the GPS incover can transplate its syndtocation (three sealing syndtocation (three sealing syndeod long-tock, white four are needed if you also need a precise altude readmont.

Mot porisble GPS receivers simply provide you with your location using latitude and longfude, or using the Universite Transverse Microstor grid system Once you have the deta, you pull out a map and mismarly detarmine your location.

Perince's GIPSXT2 system does away with the maid to claim with the maw functions. It takes even the new functions of the system even if with a distalatest strong on CGPADM. It this displays the claim approximate foodboxtains—con the diversionth LCD monitor the GPS system teel is capable of much more practice partmenting, but the precision proved functify government and alleet matery upower the prevent part of more than a system of the subset matery powers.

As the car moves, the GPS-X77 tracks the vehicle's diraction, lattude, longtude altitude and speed in real time, updeting its moving map once a second The map display can be switched between showing the direction the vehicle is heading at the top of the screen, or with North sivelys at the top

The system deam? Just zhow you where you ne—it sells you how to get where you're going. Select al location or entre a destination address and the QPS-XP? will priot a roue, you cain alloe samauly anter arrows on the screen to indexte turns. As you drive, the system provides itbeau? or 'Head destination shead? - 'Routes can be stored and recalled to ther use

CD-940M map deliabates en posibile la Sochan Collivira. Nartem California, and the Pacific Northward (Sentille, Partland, Vancouvec, and Tacome meta anae, plan molor heverys), each posts \$150 A Molemet US dea dak al also in the works. It you move out of the database rea, the system will all daplay location citia such as lattude and locatude.

Each CD also includes listings for errar of thesaands of losacers in 90 categories, including lodging, shopping, enfantamment, metical, and ficial Many of these are further broken down, so rife possible, for example, to example the relation restaurants in the impolate area. Address and plane information is provided for event taken.

And the CPEXXT is only timegeneration lacknology As with all electonics, Panier's Multi-Epsian lags, the GPS nanyator equation will likely get more powents and like experision in the One possible enthencement is the integration of real-time data transmission with the system, giving instant access to timely giving instant access to timely see that access guadance and nabearvide coverage, as well as tanknown, and read-candition recent. "Epsiden says DO The U.S. Departme highly qualified o det normalig ourrepair field o larg grants field o larg

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A WELL-TUNED ROOM: Turning an ear toward the future of acoustics

By Byron Poole

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Such some fastes aren't unoattmon. New York City's Avery Fisher Hall suffered from poor acoustos for years before being robuit in 1970.

Designing assend to public winnis durins certification in the statistical work don't larve towa is balance to the statistical statistical interview of the statistical problems in the plenning phase often becomes a make Mandalu usdaritabay, Mits is hope to to the discretion is developed to discretions is developed to discretions is developed balance public high-net guide, Boss Centronton has nearly included has a statistical and the statistical high-net guide, Boss Centronton has nearly included has a statistical and the statistical and the statistical th

"This new technology seemed impossible five years ago," says Dr Amar G. Bose, chairman of the boerd ter Bose and a potestor of electrical engineering at MT Bose first approached this handloap ower a decade ago with a computarbased design program called Modeler Chip recently, however, has the technology surfaced to mach the Modeler's with ord.

With the Modeler

went the wooldeer program, an engineer constructs a computerized rootin modal from architectural plans by inputing a notimis acoustically relevant surfaces (any surfaces (any surfaces (any surfaces (any surfaces), and designating is too-

othe building material for each Next, a sound system is designed using a database of different sound sources, such as a loudspeaker

These parameters set, the recolong data from Models can be used to ase if the chosen sound system satisfies the conditions for a well-taned record law sound res in the authence covered with sound? Is it load enough for the subsection? And most devices, is the speech coming from the expected coming from

> But Modeler and competing systems didn't

allow the sing near and potential cleant to hear what a given envitorment would sound test. Auditioner takes the near step, enabling both obert and engineer to "welfe inside" a computer model, choose a seat anywhere within, and he ang how sound reaches it

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really from a computer model clearly presentated some complications Predicting the path sound will travel through a room and through a room and through a room and algorithms to astend Modern's caltend Modern's cal-

culating ability New sound-filtering techniques ware also recursed to produce a roott's full sound, slong with a pisytock system to deliver the processed audo signais directly into the care.

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TREK TO A tech r By Greg

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ELECTRONIC UNIVERSE

TREK TECH:

A tech manual that virtually beams you onto the Enterprise

By Gregg Keizer

Ref to some supports of bothing that the second second second bothing that the words most lawy to come up in the trowel of a luture audio anthapologist studying this central years. Star and real, if there is a TV show with togs-and the lifespan of a vernpen-dic Shar Twis and its genertional occulars.

The franchise has elready geometics full shell of computer and wide estertainment, from the excellent computer-based Sar Talk 25th Annwaisary to the sup Sar Dak Talk Mark (excer-

alon wideogeme. Fukures Prof. But nothing comparts with the experience you'll have exploring the best Star Teek the so far. Smort & Schuster Interactive's Star Trek. The Next Generation. Interactive Sectors Manual

A dry-as-Bonea name ise that probably fills your tood with images of bliaprints, exploided views, and jagon-filled descriptons. Wrong, Number One Those things are in the Windows and Mech-

tosh CD-ROM, but they're far from ta focus

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up many objects and examine them, rotating them in any dreation. Throughout, the images atow fittle datartion. On a machine with enough memory they stift building and even when you stop the shoc at an angle, the edges are relatively amouth

Ferrers how it works, "fourstanding on the brotge in fact, you can stand in any of 14 spects on the brotge (Sab the mouse, then move it scale to side up or down in the window, "four view changes accordingly. Wint to saind at the backloal station, right behind the capterins of sin²⁷ Fincek smouth, as if your ware weating your head or spirming in blace "You can even look up. Notoo the discular skylight showing stars? I didn't know that was there—did you? Or head to Picards quarters, and look closely at the fluite that enrived in the Katean probe in the episode. "The linner tight"

The effect is as if you'd stepped aboard the ship—or al east the set. The pipe is early empty since therein no ne there but you and the sounds of the ship. Actually, you're not quite elone, since the *Enterprise* to computer a there to acplain everything from the abandonties postocil to the configurition.

> of the captains yothic As in the sense. Neel Barrett Roddienberry does the voice for the computer Other company comes in the form of tod, short atmation sequencies, and biagont-like diagrams of the ship You can even move between parts of the ship You can even the ship by zipping through the compose and through the compose and through the compose and

You can't just go wandering wherever you want-you're restricted to specific locates and within

them, the spots from which the panotamas were shot—but the trp is still awasome for anyone who's logged hours watching the show. If you're even an occasonal Star Twirten you must get the CD-ROM

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SPACE

NINTH BOCK FROM THE SUN-

By Bill Lawren

I was both a death and a resurection. In June 1993, asinformers finally ruled out the demage of Planet X, thet old favonte Pluto regained its claim as the most distant of our neighborboot names had depute to now the solar pentheon, in many waya



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encounter with Pluto could come in speriests since the planets discovervin 1935 First of all they want to came from. The planet and its estable don't look much like and valuable ritues to their occurs

Pluto's inv surface, providing clues to her geology and temparature. Scientists hope it will nerhope many onypai the presence itee or a planetery ring system

Equally important, fixtry observetor, cruid also helo debat. Pluto's off-apairs, on-apain atyour current pround that also, its fect, disappears. Then as it approacties the sun and warme up.

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With this window of opportuthe mission would like to set it Isunched by 1995. The problem. The report from the first close of nourse is money NASA art. ministrators have let project lead-Inmmed enormously Now, save project manager for the flyby

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The Russiane might then "daughter" probe to be dropped off on an impact traactory with Pluto, enapping pictures during its loarneauti days to the surface

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Still, olven budget constraints nished by the Mars Clossoper Iniure, can the Plulo Express netly get eirborne? "I think so. Stachlo says. 'All the motions are in the draction "

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KID STUFF

DIGGING UP DINOSAURS A family vacation

By Chris Krejlgaard

Go in the cas, strate on brush up on your ownbrush up on your owntance replete sames. Thu is one tendre verplete sames. Thu is one tendre verplete sames in the soout. It is a discourt hunt. Al you'll need is a fille time, a road map, and a bit of imagination. Chonaver fossils are solititered all over north Amstein, and if you're willing's just dig up some bones.

The first align takes you off interitate 91 in Connecticut, where hundreds of dinosaur footprints have been found. Some prints found et Dinosaur State Park mer lawe beisnand to Coalcute.



take in the sights like the 7. vectlessil in Canada, or stroll through directar foetgrints in int, a forg-included cammetrose decasaur which handed in packets live actives. Other finaled may hand balangued to him mytelized live to Disphase to him mytelized live to Disphase to him mytelized live to Disphase tested chooses usually cound in Arizona. When the extrationershift baland sources datase dense recogners in Sovietedatase dense recogners in Sovietedatase dense recogners of the transway and a number of other to satrain. Remind your parents to pack accelling of pace to mixe and a costel of a Euclidean mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and a mixes and soviet can be used and you can mixes a cost of a Euclidean and you can mixes a cost of a Euclidean and you can mixe a cost of a Euclidean and cost of a Euclidean and you can be a cost of a Euclidean and you can be a cos teks home as a souverer

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THE FIRST THREE VOLUMES A big bang in science publishing

By Richard Farr

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POETRY FOR CHUMISTS: Somets find ther way into chemistry class. Pus, building up a rata self-mage, and logging on at lunch

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Editor the Fundamy

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Jurassic Park could be open for business in 20 years. So says the man who first proposed cloning dinosaurs from encient insects in ember. esurrecti

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ARTICLE BY CHARLES PELLEGRING

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Article by Keth Ferrell SCIENCE FICTION

WHAT MAY BE THE BIGGEST SE SERIES OF ALL

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intring my pumpy I looked in on Mrs. ley scattered all over the floor I picket

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I geve hen the beenty and west up

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By Bob Quinn

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