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STAR TREK VI: AN EXCLUSIVE LOOK AT THE FILM, THE FAMILY, AND THE FUTURE OF STARSHIP BETTERPRISE BY DIRECTOR NICHOLAS MEYER -CLASS ACTS: SCHOOLS THAT INVENT THE FUTURE -THE NEW CARTOGRAPHERS: IMAGING A WORLD THAT HASN'T HAPPENED YET -SAGDEY: TO MARS WITH THE SOVIETS AND OTHER TECHNOROMANTIC REVELATIONS





#### EDITOR IN CHIEF & DESIGN DIRECTOR: DOB GUDGIONE PRESIDENT KATHY KEETON IDITOR KEID-FERRE,

First Word

Brazilian onomatoorapher sew his

12 Concebuse

Earth place on Earth tra chanceaux home life munhaud

20 Political Science Why doesn't the U.S. but the guides row ou goes of top pricect

22 Everything you always about the peranormal but

were street haven't been 26

Electronic Universe - now play the as useak wedstop of witten SF begin to triid their own

30 **Ercertainment** Parrie an mesible Chevy

Continuum

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#### 52 Boldly Going Nowhere!

By Midlinda Shadgrass Despite predictions the if would creat and burn, Star Trek The Next

Generator continues to three, delighting Trekkers and new tans alies with the artesture of Epoperium

adventures of moore and his onew But has a shandoned the originals redises spirt for a more pedantic

#### Interview By Doug Stewart Broad Registery

Physicial Roald Singdow guided the Sovet Union's unmanied sotion program

to new horghis but made more headhnes down on Earth when he budked the Communal political system back in 1988, when parestrate





#### 48 Star Zesk: The Discours Chair

By Nicholas Moyer
After twenty-five years of meeting alien races, romande
beautiful women, and seving the
universe. James T Tink and his crow are heading for

unverse, James T Nink and his crow are heading for home to take a well-deserved rest. The director and schamentar of the new liter. Star Tiek VI The Undecreesed Country, takes about working with the Star Tiek cast and characters.



Several years ago, ranogada genebosts occied up a

> the Black Death that attroked by non-Descensive,

Third World
As the world struggled
to recover
FBI agent Days must

one of the accused scientists, to trial, where he faces simple certain

eimost corten
deeth Tisselle pust one
problem Dave
finnis the likeble Bedford
is innocent
74
The New Cartographere

By Gregory T Pope Maps and legends. Wo ve scene is long way from the days when mapmakers labeled uncharted sess

be diagons. Cartography has become a science, employing the latest satellite and computer technology to not only map the soes but also

help prevent onvrovmental darrage and deliver mad faster



Scence has certainly changed over the pest few decades Fortunately, many schools have adjusted, traching scence not just with technolis but with safetile hodeups computer not works, and did-fashioned ingenuity and enhisses in



#### FIRST WORD

AT PLAY IN THE FIELDS OF THE LORD. Confronting the mythic-and the not so mythic By Lauro Escorel

phabtana have been a wore my only references. Today notgenous peoples' land, and

A feur reflections by Escare! At Fire unde two visions-the real and the imagned-of the Amazon. I knew I also faced the challenge each character in the move and

the forest, everything agained to like pendee or very highwring. of day, and the tides in some places, the height of the tides ly alter the look of a particular

in successive type fivoughout the

tants of the region was also part and Promise officials asked us to take mannels to fram. When I discovered the posteres of the pack. acres-plastic sandals, mayorreser sare leavage richten and other goods of our societies the test top to a Yangmams village where he was taken us. When we finally arread of the main. were enchanted by as dimenseems, the beauty of me ands.

us started picturing in our minds hoh; affects in the forest, wondurand the imaginary Amazon. Wo traveled from north to south. the beguty of the Incharts the main themes of the Nm. and

gast and the fire even Cope when the indiana dispovered we watting for a chard-diffused clouds in a irre they channed other At each turn they would as they samp, looking to the ska know Had we simply crossed out user and I behave 41 flow our cessfully captures some of the multrols images of the Amazon -- m areas that brong up closer to the

The process of discovery Saul Zoontz, cirector Heater when we bethey divided the space for each

Venet, Peter Met Svesson Soviet -Avam-Olesade Canfoot, and on each top our parcentions changed and broad-

> much until at the same time bright. havened transaction of our time in tale. forestorion, the poliution of the rivare and ultropoly the rights of the Arrayon These are the in order to discover what kind of \$ or one way seedly went OO

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WHERE NO ONE HAS GONE BEFORE Our writers boirtly explore new classes, modern mans the lakest movine, and a newhorn island

n the fall of 1966, when Cap-tain Kirk, Mr. Spock, and the across the nation's television Kubnoks 2021 A Space Odasyears, and George Luciette Star

dence and thus made a magazne like Omn possible We

ericknector Nacholau Meyer (15ter Star Their appoints to so many page. ole Meyer directed Star Trey & of The Undercoursed Country, so-

playe for Star Tree IV. The Way Generation for two assesses. Her latest science fiction novel. Dou

Our world has seen many gaudence for a harby technoloare not enough. "Every kintevery class in every

Same apportunities en the philippoint in Caro. high orthord, some Keiner a former union high Partid chance has overtaken Reston, Wrgenia, to see how pomputers and satellites are changmape. I graw up in the Washington D.C., area," savs Pope, fast that I needed a map to get to

Star Trak pired at the height of the Gold War and Doug Stewart (Interview, page 56) spent a month in the Soviet Union during for the August coup attempt. Stewchief's mood "Refore the ocup. gored scoops. But attpound, he

science fiction and faring films. ass from Steven Spielberg John Carnenter, David Cronsriberg,

fest appeared the sec off of the a dennerous place of quaking Where o speed tens to on past the North Atlantic waves had be-

With the though of ruplear way Store frame 65) hecomes all the evarence disting range and the havery of hydrograph warface DCI











#### COMMUNICATIONS

Examining the abortion debate, the riggrs of research and the changing mores of language

Glenn Seabord IFinz Word, September

than a dozen countries are working Magnetic Power Inc

stys reaching Critin, I was shocked and disgusted by the article. Who Discovi ered America?" by Stephen Mile and Metarve Menagh [Cornnuum, Septem ber 19911 The article focuses on who term would be "inveded." No members snape for the point of your of Nature

Anna Guillow Thom

Dr. Flience-Emie Rauleu, the rayerin har 1991] says are aborton actives says he theirs aborton should be rie

A Choice Oxesting

resisted by Planned Parenthood and

Douglas Sczygolsie Thomas Bass' interview with the RU 490 inventor, Dr. Etienne-Ernie Baulieu, funed pro-abortion bas in the media. Not

As an American Indian who would are

Margaret Méricia Chango IL Digging for Answers

1991], researcher Herry Miler hoped words in an old dictionary which they rather then haven a 12-year-old dis-

Hittary G. Johnson

asked Maler to respond There are saveral interpretations for than engines else DO

#### EARTH

OCEANS OF FIRE

The Earth's newest place may show how life appeared billions of years ago

By Jeanne K. Hanson

bodo surf. We proposed and facilities to be an interest of the service of the ser

against the black send.
This is already the strangest place I have ever been, eene in its obstant shape, an old northine.
Extent that brack is more the air.

of soulptor learnu Nogach But \$ strawy—remed for Surfur, a graant who, in Norse mythology o come from the sea bearing freer barths reseast stand The account played gold when Sursey began to rise from the

The ocean glowed good will discussly began to men from see, wat 78 years egg of 1 is land is southern coast of 6 6 CO-lock-long feasive that gold deep ocean foor, then later for creams, lave flowed for alm flow years at 45 miles per la A law well femend to hold to the sea, "Just bomby" as automobiles few through the Duning one seried the energy.

automobiles few through the a During one period the entergy the engine could have itumine ed a city len tamos the size New York The earth is still was beneath the surface lealand has designated Suary a nature preserve.

sey a nature preserve a priso to study how it he colonized now land. Nations are allowed on he seed of the selection in the compress of a scientist and with the selection defended common of looked in the compression of looked in the selection of the Marine Institute of looked seems (selection of the Marine Institute of looked seems (selection in worth of the selection of the se

wooder measuring stocks need to plaint samples. O'choon shows us the retards. O'choon shows us the retards supphising variety of topography. Will climb the smaller of the low hills through sand and over like or the smaller of the low like of the smaller of the low day. I same shall have been all the like of the low content. I same like the low content.

and a high black "sand dune citi that decounds into a caryon in the 28 years since the last eruption, 27 passage here Sea rockets a needfest probablywa cocean our rants. Others pame by air. Snor bunkings brought seeds from Sco. land in their gazzanis. Which we ter and brots also cerried blue biospormed lungworts and varies motisses and grasses of Serizes,

losmonites and glisses to Schloby, g.s. Noting bette are rere, with few the er than 100 nears bund since the stand was born soly Stand and sold stand a great sun few and and control of great sun few and standard and schloped and to standard and schloped and to standard a great sun few and standard and schloped sold standard sold standard sold standard sold standard sold sold standard sold sold standard sold sold standard sold standard sold s

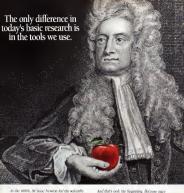
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Research projects involving each species draw sources from at over the world. To air from in their art from the control of the first state of the control of

These days only relatives at board to affect the unique environment. Bedding which towe of immediate the control of the contro

nicegon savs DQ





In the 1600's, Sir Issue Newton led the scientific revolution with beesthorough discoverees in option, mathematics and physics using fittle more than his incredible mind. Today, America is about to provide socientists with a basic research tool that procuses to extend our knowledge as never before.

The Superconducting Super Collider (SSC) will propel substonac particles at near the speed of light Head-on collisions will sharter the particles to reveal the constituents of matter, Such basic research will provide scientiss at the SSC laboratory with answers to some of our overtree questions.

we possess this information, the resulting application for medicine, computers, materials and a host of other technological areas will exceed our wildest decrease.

dreams.

Obviously, much has changed since Newton's time. Yet, the driving forces that have taken us so far still remain the same. Our hunger for knowledge and

our need for basic research

GENERAL DYNAMICS

### POLITICAL SCIENCE

BEATING SWORDS INTO DOW SHARES.
What do I haar for a dozen ICBMs with MIRVed 20-megaton warheads?

I's nice to see the new sens-

riting heart of nuclear diploma

what do I hear for a dozen ICBMs with MiRVed 20-megation warneads?

by Tom Dworetzky

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and short most prolound font ever tool on a could set the historical root. If is serphi, it is fine market, it g on ) will feed clothe, house, and hearth Revisées, and it will buy do all that , se more bang for our defense

Ther Codey week in mark may be set the Ravioleus, earl as all but pile spile s

et Ulium si ruzziona anaginali locki, and bramel for cold cash and their disproying the suff completely Wornight as well Belone the serious cleans term the colleges of the Savest Uhern, well be shipping and dollers to ferm in concern. After all, they've got still stoke bloody makes Wild don't work them to get crariey and humons upon creating and humons upon a serious.

gry, now do we?

The Servate twee gold, of, too, and what all, but their goaled natural resource is obtainly phismrum. Think, I'm kiddang?
What at the going rate these days for a killy functional ICSM with a MPFMed 27-kingstok wellshead on the open arms marke? Hard to say for sure, but considered with a come field here sport by produce not even enough publich um.

line to \$100 million.
We ocalid start the betting all \$10 million and soe what sort of deal we can strike for quantity. And write talking not jeat your raw goods here but the full value added package of a fully assembled and battled warbead securit

big busine mit is awell. The way well. Considering the cleaning with stampsone without aimy mind. Way van classe, the well year of chippering the configuration and consideration with an unbestable value. This may problekt without his to be poil. We will the season the configuration of the configuration

After all, if some unetable and if gready individual got hold of one all of these beblios, may up Hosemuy and seid. "Sure, if is beg bucks, as Sacitam—but this hogil reach D.C. and flero's no way to step at it," don't you think that Sacitam—best direct up a cadher's mestal driew up a cadher's restall driew up a cadher's

obsided on his BCCI account them and there?

We could probably with this hard—flyil is take the Devet Lindh sorts entire muchant cauths of more 2000 at an exappres—65 \$2000 billion of 5000 billion of 5000 billion. The 500 billion of 5000 billion.

would be worth e-ril we could buy it over time. All right, itender it will take jobs away from our boys in the militaryindustrial complex. And why should the teceptor spring for this use loss. Russive soulf any-

I furnished the second second

may be a lot of money, but all of these goodes would still be a bargain at twice the price DO

to Mg bucks, but those Russian nakes if the a bargain at race the price.



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FOR THE TWENTY-FIRST CENTURY

into the mustic writing to the top, matering into the future, and the past By Sandy Entz

#### HARPER'S INCYCLOPEDIA OF PARANORMAL EXPERIENCE

Rosemary Ellen Guley, ed. Harper, San Francisco, 1991, \$19.95 BELISES: Aways entertaining. AANALISESI Poor binding VERDICT: Worth Let's get a straight. The Lemun-

R is derived from three needs Trese two examples give of



breadth of fire high norte to check out the and the quartic vegetables that

#### CHANGEWATER LETTERS

Software Chargewater Computing Roy 4468 Warran, NJ 07059. Office 529.95 plus \$1.50 postupe PLUSES: Verns degrardement MINISES At prepart orbi VERDICT: Wirth of loost three

This software is actually a datahas soft the name officers for letters to government officials



mets and even the GEOs of ma-Manu driven in order to for

#### **AUTO 2010**

Paul Van Wikenburch, Self-pub-Inhed, 1991 Rox 3611, Sep. PLUSES: Good steep present. nci wrźs subite humos MINUSES! Place Processor VERDICTI An automobile low

THE ABTHEACT CATALOG PILISES: You can buy a

arroug the gerns
VERDICT: Real time travel

Paul Van Valkenburgh has a feets, and reads the a magazine. let any the a book, not a maca-

ten aports a humorous tone; fea-

cossion. The emission include supposted rated. You trid what twide higher, it is yours Each catalog a different, and Egyptian sparabe to pen





#### ELECTRONIC UNIVERSE

FROM THE BOOK TO THE SCREEN

Science-fiction games get closer to the real thing By Great Keizer

takens to far flung insprebabil Computer and video

makes un those names

Part strategic knegspel,



PLAYERS ENGAGE THE NASTY, CATLIKE KILRATHS IN AN ONGOING WAR

spaceships to tall strop and IBM PC compatibles)

simulator viside a acience-

Dynamic a Alexa (9.0 BM PC) address to turn it funks Awar

comfort of your pourth DO



#### ENTERTAINMENT

WINTER CHILLS AND THRILLS

The Addams Family and a new Star Took healt the list of upcoming films

By A.J.S. Rayl

heyro croupy and they're kooky, mystenvision theme song says, and ton pature detail in one of the usemore aborn, and take what may

Sharran Arenisca Huston on Mor-



Moarwitela Stoven Seroibero actors for Mook, an age: fantasy/ rocal, but Speriberg cost a male-Dustin Hoffmen as Captain Hook saled Aufes Roberts as Treverbell. starring Enterprises Star Dak VI

cross of Shar Trab. The Next Gen. rectors Char, with crockston more enemy retyres, han evolobut now elsering Robert Burke.

takang guar fer Pater Walter as water and director Desert

the Trad's twerty-frith annu-

ring Peter Walter Don't expect a says inshead the director trices viewers into Burroughe's Interzone, a world that produces sunrivate learning new blocks part forty black participates The business of immortality be-

vela by former Onto fiction ed-2009, people live fotover by have

And the general meyaporto Lawrenower Man, starting Prerce Man is nonally the first of what a Hypa-dynamicznal activial

martin of Hollowand is sometimes wo films troblighted in our June 1991 Josus Rarbo Flyer and 4

Mooks and noise: MW Abo Captain Hook ners the Britan Pen? WY Sobacan naund Jeanur Justich od

a new paraceters to the coffue Corel Sarvetson) The fam draws about out at the dame's New Yorker cartoons which is alred the mries, not

Moreover of on trainfile Man





#### DOES INTERACTIVE MEAN INACTIVE?

New TV-riemendent technologies may create better-educated couch potatoes Plus, the morters telephone salesman, and spinning straw into money

It looks as if the techno-American torne We Collectively these new



computers were still now

It's thuch more compel-

mae buying rush began

ine Philips has been doveloping HTV longer than any body in fact, it is the original developer of the linear-optic ed seiling its Dynamic Total Weion I-TV deck in stores. across the country. It rurn different software discs than

ous others to come work the sorre This LTM edition broke bles a crease CD, dark and wron. computer programmed to deliver multimedia extravagen zes vedeo stereo, sound grephos, bod, al resconding to the where of a viewer loancing in his easy chair. The

about 50 programs. Its offernos include games from Ninlander's Samer Marin Brothers and Donkov Knot to ARC lated play of actual occurses. In addition, there are super which take viewers on self-guided tours and even let Street Filler let interters miles with letters and resmission

has come much closer selling newly 30 million game syswhat people seem to want most from computers in their

Television-induced coretizal atrophy is already much

terms many panels would called see that a simple chilcommed mades however eachwang out of a computer is largely a mechanical skill. Creativity is limited berese to not so black as a black piece of paper, nor stone

version of the 'same old TV' Interactive sectionary resoftware manufacturers use to the challenge. If so, every



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#### BUOY DID WE GET THE

made for TV move, the U.S. March that indicated that near Washinston, D.C. the signal—to the upday. side of a display table at the nabibit of state of the

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#### REACH OUT AND SELL TO SOMEONE

A crout board peterted



Exceptly Telephone tried the

A LIGHTNING BOILT HEATS THE AIR AROUND IT TO THREE TIMES THE TEMPERATURE OF THE

SUN'S SURFACE Bell Atlantic, the huge agrees. It bought the notice to

colls," Siren says As ads between man The first niverses could be in serverte

Flet Atlantic may also offer rhanns into to musclershall have the acts on their line to seach each customer -Mark Ferrinath

MA'AM

DOOR A MAN WAY IN MICH.

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#### CONTINUUM



#### NEUTRALIZING TUBERCULOSIS

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reation of a much ingrowed state of drops or says the says the says asset, to which the backs of the hard persent to levelop a resistance. Before antificteroutous ingreams or the same to Fortice, subcroutose, the catella consumption, as one of the leading auton of deed have it in the nee agen. Each you

was one of the leading causes of deeth have its on the me again. Each yee brings some ten milion nov cases of fubbooklobs workhade with 20,000 to 30,000 at them in the United States I immigrants from Southeest Asia and Central America, where tupercursos or president, speaks the disease ascurs the work! "This going to be worse than the spread of which is a series of the speaks of the series of the work!" "This going to be worse than the spread of which is a series of the speaks of the series and the series of the speaks of STINGS HER MAKINER TO DEATH AND EAIS HIM YOUR BRAIN LISES 10 TIMES MORE OXYGEN THAN

THE REST OF YOUR BODY

ing method usind multiple
oxidation and embryo transfer (MCET)

ng method cales supple oxidation and entiryl branter (MOCIT)

Bulleto have been resend donestically in India for conturies, and the country boses supty miles of them—half be world a buffa-

ls population.

An Indian milk bufato

usually produces just one
colf a yeer. "But she may
shad as many as han eggs"
steys Phasis Cumingham
the Food and Agrouthire
Deprimaterial decelor of
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hoping to get perhaps four visible embryce which can be transferred to surrogase annals."
The scientists take eggs from the fernalisis proven to

MA from the femalise power for be outstanding milk produce are and spann from the malls whose doughtest have performed well. Whitel the MOET schemes to do cretan indebable by arthout armany the reproduction of cretan indebable by arthout as and and orthrop transfer the tenate siste." Currengteed.

Buffalo bred in the manner will be returned to breed with local health. The resulting ageneral improvement in milk, production should help to ease the financial higher of India's rural deay farmers. Garree Method

"The great pleasure of a day is that you may make a fool of yourself with him and not only will he not sould you but he will make.

Iteratice acoust your both the well make at hard of terminal transfer to a fixed of terminal transfer to a fixed of terminal transfer to a fixed of terminal fixed transfer to a fixed of terminal fixed transfer to a fixed of terminal fixed transfer to a fixed transfer transfer to a fixed transfer transf

#### BREEDING A BETTER BUFFALO

milk. But farmers and but expensive to rates become of their inscrabble domain for footbe and their cell martisky rate, which has usen to 25 percent in so parts of the country. To increase milk production, thereby resking buffall more professive to reserve acceptable to reserve acceptable to reserve acceptable to reserve acceptable to the processor incesting, with sectional helps from the United National Food and Agriculture Organization, have begun soring a



## LUGK I HE UUUK And preview the stephen king vided series



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by Bulley Interview, Scharely Radia Res.

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The Manning Furrary Into Gene
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and directed by Daniel Corresberg,
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#### COULTINII II IOO

#### BATTERED BALLS

halls can run a nissor's "Most balls got beaten

University of Cinomiati applied-science graduate descriped and built a programmeble desktop inballs' shape for distortion

THE HIPS and get away with it

AMFRICAN ADULT HAS FILLED TOOTH SURFACES

\*One ball I tested loosed nate 'The others had to name -- Scott Flormon

-Taxothy Flame

### MORE POWER TO

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Supply one omore.

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tion, to refuse to conside a localist time are consistered Tid be amazed if any Monaguer, no matter how right to use the power," notes the Correlation on Bules of

survis Digo Does, goldwinder of

-Restol Lago Voss



#### COULTINE II IOO

#### ALL THE NEWS THAT'S FIT TO EAT

north, No callo and sheep can digest the cellulose

can I break down the more

THAN TOFNALS -- AROUT TWO HUNDREDTHS OF AN INCH PER WEEK BY AGE 70 MOST PEOPLE HAVE SLEPT FOR

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collect Large Guide Star

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the United States 19 they

were fed a diet of 20 percent About 30 million cattle live in \_\_clart tertex '\_\_Rity Allutation







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B by company resworks and interactive woo presentations.

"If you haven't seen us labely you haven't



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video and computers, simulation of bangerous and compact laboratories, ambient in place laboratories, ambied intelligence—and dolvening different kinds of information to lode in the dissertion."

Borns schools ray on creative resolving methods that are decadedly to leach. Just 35 ed paid local resources to work in secting search to find from the resources to work in secting search to find from the resources to the resolution of the resolu

common or consequent (III. The Billion, Verent has a unique colonyction arroyal flower content of the III. The

race 250 to protect an actir of Beltze's rain forcet from the ax and saw. Not every public actional classroom, of course, sports an award-enemple beacher, not every public school classroom even trings access the opening of spirits a branch of sealing a sealing of sealing the course of the scientific industry in rock (But scattered for scientific industry), from California to Cell-oxido, servicigit Nutri Carromas Pedminist region to Mannatamie Lower (Best 1 Stell-

skills insyll need to ment our future. PREAL SCIENCE, REAL WORLD. Smock in the missile of California's Sants. Client Valley, Hooserda Elementary, a opsisialted operation pregnal school; passes in reality 700 lods, from kinderganton to fifth grade Designal to Saltonia's valley of rehitten from the control of the control of the control of province companying listed at the time of province companying intelligible the photomic province companying intelligible the photomic.

"They re storing relevant. Nandscore occurrior," says Hacianota principal Ken Virsams "Lacburing and bladdecased work and a lootbook see not season to these hid. The concepts that make connections to the real work are what's separate! If they have no consistion to the real work, they don't make sense and the looks aren't interest and their level B. He-To gots their interest and their level B. He-

that cover the obtendies with outside action besides that the piece to concern measures and school had become an extendition every size speed, after a river to be a trained by two participans operated to be a trained by the law determines to be considered in the late. The preference to be considered in the late of compressed me considered of the waiter is that the considered to the considered of the late. Installing a rediscool grower and a small trained and the considered of the late. Installing a rediscool grower and a small trained and the considered of the late. Installing a rediscool grower and a small trained to the considered of the late. Installing a rediscool grower and a small trained to the considered of the late. Installing a rediscool grower and a small trained to the considered of the late. The considered of the late of the late of the late. The late of the late of the late of the late. The late of the late of the late. The late of the late. The late of late of the late. The late of late of the late of late. The late of late. The late of late of late. The late. The late. The late of late. The late. The

"Each clase has a guidan," asys Casking.

"Each clase has a guida de denne sechcos "They grow vegetable, then bring their
is and the whole sech class as supplementation of the seching as otherwary. We make everything an experiment." The feet and to present their saidring gyrssum to the self vedual affect their
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"If you opened whitemer were studying."

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Previous page: Socients at Taloott Moustein Scierce Clarter Hardard Connecticut, gather et fini observatory Above: Students et Seo Jose, California's Hazande therentary is specialized science magnet echool, conduct hands-on projects, including biological research in an outdoor laboratory



we have the best

ad the country

using sand, gravel, and charcoal, compered to cleanse contempaned water Hacianda acarone students study acid Francisco Bay, and watch the heavens with an earth-inch taigscone. With the bein of a spegives from the city, they examine their habite's water, lopiong for bacteria and protozoare, and take a hardness reading to assess were trying to boure out why the habitat's insect population is nearly extrict

"These kyls live in an expline time." Flannegan saws. "You've not to crab their interest and get them exched about science so they can see it's exciting, too"



harboneri merakes possibled upon a Madical Coppes mar blike entire Time the curve to the near" save Dryaki i o Sale Talott's director "Aftern prope stood

metuments of destruction now only stand instru-Founded in 1967 as a private, nonprofit soence center. Talgott attracts frousiends of souchants from the recent to its daylong and weekand sessions to rapplement their require serremember of a firm of a small on-site acardemy Mourton's goes to the lode, coursely of a satel-

children across the country We put a lot of emphases on using techreferry" says La Sallo. 'We espause the oflosporty that you need to use the technology

arvi a Drevetor woother rarios The approximation of Donnier outlier of the man integral role in Thissath's Student Weather Network-a video- computer, and telecommupications days collected of more than 100 schools from Marrie to Perruphania. Kida m earth action) take weather measurements and too their fortings with Army lifesther, the necessity farthundrets of radio and likewards stations rely on for their weather intornation. Using Arraspleaned themselves, the students make local figures when weather threatens to close class based card beamed to the achools. Along with metacopiograf Bill Diamatson, hij fiolida weather not set reading about it. Baratow says, "They who are martered. Now through going troubly wealth-

er updates in their classroom." dren from coast to coast with an interactive spance setalite naturals Called "On the Shoulway audio program lets lode ask questions of dents about everything from the search for extrapagnetical life to page technology, video guests have included scace colony provinced Gerant Others. Babert Moon, who created the who awanted the children's computer program. ming language Logo.

With just try to make our kids scionce and technology literate," La Salio explana "They can't be part of the future without underdending technology" нюнлесн нюн

Science and Technology may well be the future Southwest of Washington, D.G., in one of crity two achools to place more than a snote finalet in 1991's Westnotouse Scicessit, chairmen of Thomas Jefferecris sopence staff and outstanding students. I've to chare company don't had

ony labs. Jetting leds appearing in such arelab. looking much like a bulky freezes, is somethere that coally gets Thomas Jofferson poort from the average American high achool-

Rupercomputer
Thrence Jefferson's FTA 10th supercomputhave per separat), more than 100 times feet. gritian today's most powerful dosktop workstohone. Like the Cray supercomputers on which working amention first for access aling commission officed woods. It's own

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associated with the tree and of amorphisms the chilwould affect their crosss—and lested the results



At its host, Stor Trek onpoors to function as pop ellogery/pop current events and iswer, and registerand objectifying them for us to contons. plate in a science fiction setting. The world it presents many make an reaso or either science or fiction, but it is tru-

by sufficient for

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men avestions.

Athur Conen Doyle and Sherwhere the appeal of his cregreat detective certainly

mas for Sker Tree marked, referring to the unadded. "I can do it, but I



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thing compelling about the show us other worlds to over costumes and logic It attracts, survolves, and finaland not let go. After all, 50 milion Franchmon cannot be misdoesn't even pretend to ing like the one hy Movan Why? There are so many

for the story's appeal Cap. At its best. Star Trek ap-



tetwo years. Star Trak is no sort of securiar parallel to the I see the heat somether Catholic Mass The words of meanwint by as it shows us see keeps changing. Yenti's worse, in sickness and in blance to the one by Fauro books to such Size Trak which in him sounds roth



# STAR TREK: As he guldes the -----

THE DIRECTOR'S CHAIR By Michales Meyer

latest fites for to the icto theaters, the director and screen. Wink and commany's estenishing oppeol

for what they promspite the title,

(chove right, with eet Valeris, e Vulcen Starffeet efficer.

My ewn Star Trek films love of shing, 'Neutias my wife puts It. explain its longeviony. The program's

Some are more "realistic" debt to Horatio Homblower to explain the show's longery

in written, the characters

Duckfor grownups, literature actions so it in aqually impor-

less Captain Kirk, cool and net, Leonard Nimov, DeFor-





logical Mr. Spock, bluff and lest Kalley, George Takes, summ was less fortunate Riv.

embody these now mythic. Nichelle Nichols, Walter Koe.



roles. What he crew of the En-Average possesses in abon- not successful to narrow to dance is that almost extrator- their agreeableness. Age conrestrial quality known as not wither nor custom state. cherm Just set it is imposts. Their infinite variety. New Mickey Mouse and Doneld not be seduced by the char-I feel as though I am watch for a positiveste age. Dourth - sible to work with William Shat - if g for so they have become Arthur Coren Davis, Las-



Movie make an and he inexpensive, simen the TV show in VI's cost of elions leoking than ever.

STAR TREE, THE SCIENCE CLASSROOM A wild new Cons arti- cold mine of not only an-The Next Ganeration "In Risk The Next Generation a show called New make people as fragmet-

Ground," by Poneld D. adwith spence as the ono-Mooni Tsuvs Naron Shankor a Star Time The Next was twelve." Okuda save Generation science consul- Maybe Star Trek The spece utilizing bearred socongressing? lachyone

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Star Trek creator Gene Rod-

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Martia, a mysteri-

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lehed by Warner 1



actors and relutive newcomers will venerable el-actross Iman

weed Smith (aheve, General Chana, And nuts in an appear ence as the (hottom right) is the





#### **BOLDLY GOING NOWHERE?**

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Ser Yek's creator and associate producer, Gene Roddenbarry has posed for suguest group of mon with an against Barware of men conned with Barr place in Instarry With politicate this obsession useful ended to be a series of blood in the case of Star min. The New Series Greateners, a cind

up watering your time.

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good searche fettor Not always of course. Classo That had an entire of guideline — 'Brook's Dean'.' The Occapa Clays, "Feen so, there were compts by Photor Block - Hearn III as many the course of the Photor Block - Hearn III as many the course of the Charles of

City of the bogo of Indexer, "Inancies of Mercy," has perceived were asymtable, the season effects were asymtable, the season of these, and you had 
William Shather Chewning scenery. 
But I I I liable, althere If. Kirk keazing the grit, punching the bad pay and voids, ing the Phres Directive about twice as show over the about two or astney when one order the Enhance. 
The old show were possercate. 
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By Melindo Snedgress
TV's current Star Trek
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But all things pass including Classia Tink it facilid away to het hinto where did stoward showing to the until it not showing to the until it not showing to the until it not the dead in the tarm of Say Tek connections And the correspons begot the new award. Amon The checkful effect of all the type was that floctionsery docts.

he could make some morey. Now he had to appeal to the ages be cause this make philosophy. In the new improved twenty-third confusy thate is no ward, no money, no crime.

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Daily Belt has always been a celecor of the country's attraction celester than a structor of those attractors in the advance of those attractors in the advance of the celester (Concelled The Agency Left Edward on the north on its head as the apprie with workington of cent experience, the most many than the celester of the celester of the workington of the celester of the two celesters in the celester of the North Gelesters on the celester of the Health Onto Control of the Control of the Health Onto Cont

> scolly just as coordina as fin New Procher adjuient of Classon Triel, and Classon Triel, and of Classon Triel, let it important? Does it important? Does it important? Does it important? As I developed to the cook in word hard ger hard. It's just and the ger hard. It's just a like just a like just a like just and the just a like just and the just and th

"We an't enachcash world hunger hans. He sail a TV show "DO

"Space, even orbital space, is the common heritage of humankind. So why shouldn't humankind cooperate in exploring it?" asks the former czar of Soviet space science who now

#### shuttles between Moscow and Maryland INTERVIEW

not a collection of cocophonous de- ical action. He weighed the evimocraces in the making. Roald dence it didn't add up Sacdeey made headings just by resing his hand Sagdeev was a man- world-renowned plasme physicist. of the Union, and that august body - hous spaceflights, a changement prowas voting on legislation designed moter of cross-border scientific verto squelch political raties. Through-tures, and a late-blooming politicar out Soviet history, all party-spon- who can out-plasmost and out-per spred bills had hitherto been voted estroka Rook Velton hymself. Toylar into law unanimously. Sagdeev's sol-. Sagdeev, shuffles, frequently, befrank revolves a shocking breach of ... tween Moscow and College Park protocol in the upper reaches of the Manyland, where he is the Listance Sovet political apparatus. In the corr- by of Maryland's newest Distin-

n 1988, when the Sovet Union was the movenck coar of Sovet space scistill a unified Communist state and —ence, however, if was a perfectly lon-

Poald Zersurovich Sandery is a

text of Sagdeev's 15-year career as guished Professor of Physics PHOTOGRAPHS BY DAN WINTERS



ov was meteoric by Russian standards travers I 1000 Anadomy of Revenues a panthoon of barely 100 scientists, mostone. Sapplery took over one of them. 1988 when he voluntarily stended

"Bandeev." save Louis Fredmen, away the dreator of the Planetary Sociotrom Banandona Colifor in Education Standard of such cal change within Source someon Betwee was coulded out a Spend to ted way when a sentensorel space policy advisoff challenges from pariv wage some scattering

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courage Many were prepared to go is often older organists who no looner actively engage in their own intellectual actuarty to trut rather supervise offs. Sandeev: The scientific community was form will cost them their scenari predsalvas og endernared

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each of your country's huge research natioutes resign after ten years. Why? Sandage True arranges hacrore ter year and they'd welcome a policy

# THE OFFICIAL 25TH ANNIVERSARY STAR TREK TANKA

The official commemorative powter tookard authorized by Paramount Pictures to celebrate the 25th consensury of STAR BEK serbly crafted in fine power. Accented with ownerconstructured mixted in stelling or and embellished with 24 board cold.

PARAMOUNT PICTURES



Name and In Consider 31, 1907

Tankard shown smaller than arted size of 7" in height.

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Endowed the toring will be explicit in this pewar and embelished with a grameworative medal snated in sading sharend excepted with 24 karshquid. partnersor grove means in Wind in pasting other and depended with 21 spring and

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twodupon and govern that excess when you're because it was an an amount of the community of

Now imagine, after these soverty her years of caractylam the Soviet Linco soil has bright constitute it as important part of the world is considerable. If you had a chance to withink a considerable if you had a chance to withink a chance of the protegoporate datable. However, when you did not protegoporate chance is not provided to provide source of the question—how has Soviet source that question—how has Soviet source been able to convered—as the subject of the removable in the value. One will the total of the removable in the value.

Clean With the total of the hard lines. So the subject of the source of the

The cuestion—then has Sovet search been able to quieve—in the subject of the memors if in writing the search of the search of the search will reform now success? Suggester in the mis-Big tess Cotten cut out of the mis-Big tess Cotten and the search of the search out for the emission of the search great the dissenting of the Communical great the dissenting of the Communical great the dissenting of the Communical part the dissenting of the Communical part the dissenting of the communical search of the communical search

Oo you

know my definition of
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and a radical in the Soviet Union? Six months. 9

know my defeation of the difference to day between a moderate and a radical in the Sover Union? Ser months. Oversit in 1988 you were the first momber of the Chamber of the Union ever to vote hord on a perty-appreciated bill Why did no one join you.

Why did no mis per you'll supplied. The first controlled the supplied to the barricades. It was done step by step. Denn' That samm year you took your own advice and stepped down as director of IKU the Spece Research Institute. What was it like being a working soientst apair? Seadewi, It's not ease. You wiles up in

Segiment is not away from when up to the morning and realize you don't the morning and realize you don't the morning and realize you don't do not reset to stated the VP resetting of door it med to stated the VP resetting with the measurement of the door you must now sold plond dook and type which we will not not not not the control of the control of

of IKI, I was considered a white crow by my colleagues. Cereil is that like a black sheep? Begdsey. There is a huge population of black sheep, but it is very difficult to

Inglia while close. General wild and selection of the Court After label and of the Court After label and of the close while the half bench half b

mental belaging.

Carte, Don't, you had a number of parCarte, Don't, you had a number of parCarte, Don't, you had a number of parBegeleev, Yee, and I'm quite proof of some One at on a system to point a someocera't is releasope that we used for the legal space-ord's research to the ouclass is a liny body in a cornet is huge and hight come. The lam may be charged legal and the tim now cloud of gas, and dust defining a commot shapp! Says were to peeu through the communication with Earth would sike.

cided which part of the corns was the nucleus and guided this spacecraft's telescope duang the rendezvous. But no metter how smart the instrumentation, every mission is still in the hards of the contractor responsible for stateting and controlling para soles. Out Affe charging or the state of the appointment in 1988 also days provide a pageoretina. In 1988 also days provide the controlling and the state of the state of days of the state of the state of controlling and the state of pageoretic of old of Thomas state of controlling and the state of pageoretic of old of Thomas state on the state of the state of pageoretic of the state of pageoretic of and the state of pageoretic of and the state of pageoretic of and the state of and a

few days prior to the encounter with Phobos. I think it was the most diseppoint ing manters in my cases. Cases What went wong? Sagdeev We had also planned to do some Mars science, so when the space of crush had almost reached the earth orbit as Phobos. It humsed to look at J Mars Ast that count, crowing control in-

secondly turned of its incomession bore dehicoscie the spoceral and dehiver now possed based Marincottoned Earl Teo fours later an orboard computer was supposed to restee the spoceral transition. We'd repeated this procedure to the spoceral transition we'd repeated the spoceral transition we'd repeated the special care from the spacecraft to overstook was opposed transition was opposed. The special care from the spacecraft to overstook was opposed to put the special care to special care for the special care for the special care of the spe

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es of ECL, which mus NASA to shome. ing of lossign accentlets as collaborators was that if was so unexpected. No one was ready to our un cossissance. But soon baffles began within the space bunesurably that follow the gld savero. No tack BC's policy of inviting in foreign collaborators. They say! these collaborations deprive Soviet scientists of their night to perhapsie. I often have been accused by pame in these attacks. And bringing Western technology into the Souet Hann faccety undermouse the West in recommends So familiard Local Land Orms: In the U.S. the relative value of manned was a armarmed spaceflotd

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see and appreciate surrenized states missiens. The normation of space opporation does not come only from secking. In any pressures enth assect. This hold was not specially followed swinds serving and the mission of the serving pages of the serving pages of the serving level Demostrably, the Sovet space programs or under attack. Floris feltan and others have under this space spending to curber of their processing spending to curbe of their of companies.

Sagdeer, Suggestions like that reflect the very understandable feelings of the taxpayers. From the start, our leaders used our space achievements as a



soid for political indoctrination. Our policie soliviermatist were said to be proof of the supposedy of assistem Duting the Beginner of earther was a slogar. For Soviet spacecraft, the fearnful state of the supposed of the

Soviet Union herald the end of big solence if your country? Segdewn I think it's the and of sommon used as window chessing, as a propagarda play. I hape it will be the begin-

ring of ganutre scence Great But what will become of the glorous Sovieti space program? Sogdeev The Sovieti space program is no longer looking for glory. It's looking for survival. Those reputation interested in high lockingloary in space—Russia.

in high technology is space—Busia in Lurane, perhaps Razashanamight from sorretting like the Europe an Space Agency it will be a very long term before any republic girst the Schooling in motal response hard European countries, which are shool of the Slovet Lisan in exempt toward European countries, which are shool in Blovet Lisan in exempt toward in enrollment of the ISSA Chew. What's the season of Surviva See Sovet space Sutule?

Sizvet soace shuffe? Begieter, Disarvet standard croe, unmanual, Being a coatly orizingties, the imprect is injury to be abandered altospect in sizvet to be abandered altospect, maybe rather soon. From the Astronomy or soon of the control of chicago launchin companied to separate thought. The Americans disk soon of the soon of the Americans date, so of this protect for use to do it? All the orticities of the American shuffs on hower is applicable to them.

Own Energiya, the grant new Sound rodest, has flown only twoe is a endangered, too? Sogdeex: If you can find customers

who want to use if you'll be most wolcome theregal can deliver to Buth orbit a physical of more than one hundred fore, firrer times the weight of our life space station in the current economic cross, our country probably can't affect a project big enough to utilize this learn't capacity.

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launch wateries in the world, and the cheepest Even with a quick renassarios of launch technology in the Wast its rockets for many years will be How to get this close without getting rattled.



Name becomes, you can stand the best and have every assured rolly set an exhibitating new et as a belignent, a concept, the the bedgeed befored a grace agendary multi-context aprice agendary waste context the late.

body. Altroat hore the cross 20 different models, there's first waterproof sporting binactors, usage Supfaces Plan's Series with both "no kin and "Cose focus" capability, and many uso All covered by Nikon's 25-year lambed westerley.

NIKO

will strike your lange. ONLY Name. quite she again

#### THE OTHER SHORE

DICTION BY LE DUNN





#### THEIR LAWYERS OVER THERE?" DAVE GLANCED AT BEHFORD, UNABLE TO MAKE OUT RIS FEATURES IN THE DARKNESS, A RLANK SILHOUETTE AGAINST THE PASSING OUTSIDE LIGHTS AND NO MORE, "IT'S THE BRITISH SYSTEM." HE SAID. "SOLICITORS AND BARHISTERS. ONE PREPARES THE CASE, THE OTHER

around it. I forced which is which . . . " That's ekzy," Bedford said, "Long as I Dave made no reply. Bedford had been Bedford dign't need a trial. saving that continually over the past

the car oftend, and two in this one assise the radio. In the front seat Wolfe lifted the from Dave himself. All armed, Dave with his headest and held it to one ser. He multi-red into the mike and tossed it on the dash see justice." The words were followed by service revolver, the rest with MP-5s or Ingrame. There were people who thought "Goddwrit," he said. He turned to face Dave "There's a not browned at the argort Word leaked out somehow. At least fifteen hundred markers in front of the terminal They were taking the back reads to the weeks, as if the words were a land of man-seport instead of the main highway. Anoth-

and the could now a start or we see that the could not be seen to be seen to

behind. Four men in that one, the same in Words blamed by state sounded from He shock his head in disgust "How they



found out, it don't know." Dave seed, "There's always some juckass who's get to the the basis some juckass who's get to the the seed of the the basis and part seems about 100 the three days. The sound gut ofly, "A company about 100 to see a those are there, it is bookey." There was

no riply so he turned back to Water. "Any is changes in the route?" "Year," Weller head. "They're taking out, is a secon of runway terna half mis renth of the termine." He looked over at the devia. "They'l diddy dies soon as we show, A!." If the driver stocked wordsway.

They driver on in sections for a tey missing. They draw on in sections for a tey missing.

They draw on in sitings for a tew minulas, then Dave heard itediand sigh, he looked over inquiringly, seguring that he was writible himself. Bedford spoke nonholdes. "I don't know why they can't hold the trial in the U.S.," he seed "instead of

Tying all the way over there. You'd think in they'd want to save than money? "Symbolism". Days and "Liss them had they've get arms control over the process. After all, they've the ones who sufil femal." He passed before going on

"Dosen's sound like much, but it means a lot to there."
"Whit," Bedford seld, louder now, "As long as I get my day in count." Another tetered bugh.
Dave stered at the black patch that was

with no question that electrical hall bless in its black with the Planter Group. He was a genetices, his speciality was DNA charbing, herick known them all and had next with litaral three of them in the months prior to the Plagua that Drove had his doubts. He was her from convinced that Bedford was guilty the held had anything to do with the Caves rig. During the interception held had at answer for executing. Why had he gore to Gozumel's Held related held seals plan by Groney off of phagos and deliri have by of money off of phagos and deliri have

to work anymore. Why had he met with Others and the others? Shop talk The by

Bedford He'd been assigned to Bedford during

KNEW RESPOND
RASS REEN
IN TOUCH WITH
THE PONTEN
GROUP, BUT DAVE
WAS NOT

the interrogation not to question him, but simply to be there. To keep him company, be his pall talk to him, cheer him up—and to listen when and if he decided to talk about what he'd been doing those last days of May eight

review ago.

The Suddy program had begin at the Hole Integration and Integratio

without here is a That the work with the work of the second and th

here your wild not all supply defined and places about the supply of the

os to him, not that he understood it oven now.

Dave would have liked Art no matter how troy'd mat. The fact that he was northable imposed had nothing to do

how they'd mat. The fact that he was probably innocent had nothing to do with it. He'd had it out with Wills, the agent in charge, earlier that evening. Will had

charge, earlier that evening. Wile had colled Dave down to his office to talk about to account the choice to talk about the choice, hadn't given one sign of guilt, how his story had held together so wait. Then Willia had goban to the point, "fou like him, don't you?" "Yesh, if do I He's what we used to call a noble bro."

Wats smiled "So do L" he said floding with a pain. And you don't think he had snything to do with it." His tons with first, deliberately so. Dave shut his eyes and shock his

head.
With sat quietly happing the pen or the defetip, his lips pursed. If hear you see much on the Jispanese delegator last week, the said finally.
Drave shifted uncomfortably. He's been wondering when that would be the moderning when that would be the said to be the said.

lest week, the falled finally. Davis shifted uncomfortably He'd been workering when that would come up "They were threatening then," the said.

Week, you should have come to me I got some flack on it from uppasses. But, he waved his nend, "fluid's post." he waved his nend, "fluid's post." he passed none ages, "the weet on

But, he wassed his hend, "that's poot." he passed once again, then went on his voice quet "Is this one getting to you?" "They all do." "All of there?" "All not "Days ared, grand him a

The buddy program had begun after Holis hanged himself

in his cell. The papers had gone wild over that 9

the safe.

"Right" Wills nodded He stand at the wal as if deeply insertated in the software point of the room.
"You don't thek he should go."
"To like to not him a month or so, see what how an.

Can't on a Dave, "Will need, choiing his head. "Dalif words him. It's been two years amon the last—" Dave out him off. "So that's of White on a deedline new? Maybe we should skill six-drig over the guye who told from the equipment. There are gute is have of hem." He let stein, suppress at have of hem." He let stein, suppress at

Wife dropped his head: "I know it bough," he said really, and his one's bougher has meat." He retred his eye: "Do you want to be released?" Dave healthed he'd been proposed ing the thail with more divised than he cared to actin. He could be out now, no problem—Wife wouldn't hold a goarnet him. But it wouldn't be let to

em—Webs wouldn't hold it. m... But it wouldn't be fair to sook his head. It have to say the word."

wart is this. I want to know that the firing ten t becoming an automatic procthere and to keep the schools haven Anyone who goes to Dahi is a dead man-the trial is just a formeliev Art Bedford wouldn't be convicted in the Lighting another of his never-ending string around or the rever-ording ing it over and he was tempted to say something, a remark about the court get him but of it, but he remained secret "Your lonney Dawn" Willia page fromby "You'd have made a good small-town cop There's something about you member Rood sat here screaming ho was innocent, he had his notes, every

offer dame from and then

"No." Dave said "But what I do

Strong Feet Ottoes came around in the end.

Dase included (Dilent had been read who had in between the dilent who had had between the had set as the last of the control of

"On the pisne he tello me overve

sight smile that hadn't changed even when the gas hit the acid.
"You think the same will happen with Bectord?"
"Be now." Wile said.
"What it have got nothing to refit?"
Whit builted the cigarette out and let

Write butted the cigarette out and its another. Too what you can "he said quietly." Some of us have our doubts, too "he litted his eyec to Davis. "I shrik you linew what I'm saying." "Yesh." Davis said. "All right," Wite seed. "Now op on and "All right," Wite seed. "Now op on and

a get some sitemy.

If you have been to the cultiback, but side to see a success and the most after two from seet and the most specification good in the day of the control, the most seed to execute the rest of the overing walking the controls, theretay about the rest Well to the short of or one study and the controls, the seed to be a preset. He discuss all down with this control, got so have tree, within the control, got so have tree, and the seed of the control to the control to

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PLANS MARK TERRO TERR

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Insuraidonal Military Archives On The Fastkin Mark Armousy Collection ruder whice through an automas

nicheronicklector miline shift.

to match the satellite picture.

If a fitting that both the Geolog-

cal Survey and the SPOT Imag-

#### THE NEW CARTOGRAPHERS

ARTICLE BY GREGORY T. POPE

In a windowless chember mate control, stand towns. racks and calturers of comoutpo power Here in the U.S. Geological Survey's



flyno-carpet ride In a similar room at the SPOT lesson Cor- and sapporetion, about a mile down Restor's tidy othere-Sunnes Valley Highway, techniques are: Tripped porns through data beamed down sever- grayers of al days ago from SPOT 2 a commercial vesterves: satelite that circles the clobe every twenty. More precise than sex days. These days, any mapmaker with lever before, thanks to as little as \$500 to spare can freshen up - correctorization and satelan outdated map. By smply summoning. It's imagery, modern maps no a map on a computer screen, and super- longer stop at simply guiding the

ng Compostion—two driving force es behind today's cartographic

gion's peaks and valleys on a ten-second - quickly now Conare the pens

to site a length! how to route a fleet of a computer takes a

ambulances, how the terrain will look af- lot less time ter an earthquake has rippled through New demands have compolled mantion in innovative ways. The new carrioncachers use softween that translates soluhal features -- houses, street intersections.

rivers city blocks-into mathematical, the points lines and polygons These peomet- traditions. no elements are identified and tapond as chose of scribing street names, 210 codes, soil boss, pop- a whole new map onto suit ren't a map in the traditional sense but world asias you just bought nether an informagin pool where every feeture is dipassed and stored in a yest date. sharpen their view of the world by employbeen Such a despheer, called a perconath- ingle satellita capability known as remote ic information system, or GIS, is the crux sensing. Lendset 1, lofted by NASA in of the new certography. Diang a BIB, car. 1972, showcased the first girmose of retoprophers can energia peopraphic infor- more sensing's cover, offering views of the mation without ever looking at a map. Or earth unprecedent .... ed in their eccuthey can unleash anazzy praphics routines racy Currently. .

to display the information in a more femily 5 can pick. The venerable meameking houses, mond from whose profits hinge on the exactitude miles of their products, have wholeheartedly

halls they must let the user noze into the \_\_emboshed GIS technology, largely befrequents answer thomy questions where cause knyon corrected digital data into

ulation fraces, whatever, and are down- a sheet of costed film. More than Yeah, a loaded into a computer's memory. The ne- GIS database spawned the road map or

The elite among the new cartographers Landssip 4 end

almost 700 planet

A step beyond surveying

3D digita

imposing a SPOT maps over it, the com- user from point to point. Like crystal

Images from remote-sensing satellites

#### Where no one has gone before

But these days SPOT 2 lounched and managed by the French space agency, pers, training high-resolution

lary/marks as small as thirty-two feet. The - to help plot economic development. manos am "hibber sheeted" by croundgard) SPOT Imege Composition peddles its - that SPOT can data in a versey of formets

Among popular SPOT products are re- U.S. Fish mately sensed duplipations of the U.S. and Wild-Geological Survey's famous topocraphic - Me Servi maps. These breek up the nation into standerd rectangular map chunks known as guadrangies, or guads. SPOT guads provide an instant update of the Survey's

But today's magnekers also gut a new

lendscape," says University of

SPOT quarts bein with fine-busing " Aided mode (capsuring red, green, and near-infra- by Cowen's department. South Carolina's and wavelengths). SPOTs two sensors can incurrement for rearmals has mustered upto-date SPOT coverage of the entire of highly-protective mode, they can pregive state, identifying new made in outsi modors.

The pre-two purch of high resolution hased computers, a technique that stretch- and multispectral Imaging him made es and digitions the data to compensate for SPOT the entrument of chains for magnition the planet's current are the specialization of the changes in land cover especially encountrion annie, and other desprisors. With so- ment on widerness eress. Trees and tar. pressive marketing (Maps are lest SPOT) comfising and porcette reflect the sun's is truth, goes one unofficial concente sto- radiation in distinctive apactral signatures

ess never a asly viewe



mage to draw a vegetation hase man of the Great Dismal Swamp National Wildlife Refuge, which straddless agricultural agests around the refuse. Meanwhile planning pregrands around Jacksonville, the Florida Department of Transportation employed SPOT data to distinguish secretive wetlands from assured uplands

Yet even SPOT's apulty fails short of what some carboarnohers would like Sount hard at a SPOT maps and the opometry of streets and sweet stands out but you can't rende out fonce costs, electric oviores, menhales, and other small objects In addition, objects viewed from space must be proved to a metro of longitude and listitude before they can be transleted onto a map. Ground-based surveying teams, toting piane tables, theodolfes, and trigonometric handbooks have tradition-

smell features onto maps and portions to do so. Until remote-serving servites become more eagle eved, their jobs are safe Just as mecroekers are turning to spacebased tools, their counterparts in the suryoung business also look alreaded to refine their art. Many surveyors now rely on a feet of matery satellites called the Global Poetsoning System (GPS). These space-



The tools of the

trade: computers





tal pulses: a ground-based receiver ides, can use these pulses to reckon as own longitude, latitude, and altitude. ites to position solders and dude smart weapons to their targets. But GPS able, slarming defense strategists. Anyone on the planet could tap GPS se-

encryption during the Persian Guf War because the military ran out of receiv-But survivors have divised a next tors to exercent the sympl encryother. They place a GPS money on a lendmark whose longitude and latitude is aimarty known. They than walk activity gree of signal distortion. After adjusting three feet, stationary, to within inches

the cost. Local communities have traidentify slopes too steep or too aesproperty lines, police precincts, water or, coalescing the maps into a unfiled GS to hab plot growth. But there are fit together but sometimes old maps rice (15) well because of the customers.

moving a stream's location or fudging grap I can the Day manager of manping services for Huntsville, Alabama ors laid out a GPS-derived network of serial photographs. Guided by those bankmarks. They could puoce the riffer

less accurate base map of the area datainst enquelt to show macholes. It rephers then whisked the photographic man into a computer to decerble our named more would stand out from difai maps. Beyond giving the city the road. Faced with this analysis, the land-

Similar projects are underway at the

LLS Gerforeral Schools GIS Benney's Lab where a staff of eacht is developing maps that peer into the future "There are a lot more uses for our data Drief, chief of the GIS lab. For example, free years are the Phoins-Derice Min. with the Forest Service, hoping to sank an open-of copper manufalantin cov. est The Forest Service called on the GIS Lab. where researchers Inoring a lion data, a Landest mage, paper mone showing applicary and water taoperation's pits porcis and pies and spothables changes in draining age then swiveled to raveal how the pro-

The statity of CES to constal the fire to has given land-use pleaners powerful nesse commendations. "Theories is making from the Douglas Gerul, executive vice presdor of computer-based rrepping equipment. Tiral people used computers to cretica change before littles and change er Now they're using the data to men-

rough ding collapsed

Unwersity of Wecconsin professor of landscape architecture Ben Nermann and tet collogrupe Morovo Lagging on-

agery with property-line maps and soil charts. They developed a GIS detabase sal Wisconsin. Next they coupled the systent with a wither-crusity assessment to rate feadquarters on a nearby lake. Most recently they created a threepreficides scross the computenced landscape to elustrate how the cherricals fore you implement a new policy." now Nemana you can predict to

non per Mines d' While local planners are benefiting fortunes of modern commerce, just as



ful chaos of our solar sweem than Cance of the Planets More important, though, is how it helps you make seems of the right sky Your appreciation of stellar bodies grows each time you run Dance Grant Keiner Compute

its an order of magnitude better simulator on the market. John Modey, Sky & Telescope

Next Generation Astronomy Software Today No other PC program gives you a. It is the most imaginative and imagination-mapining software that

I have yet seen surrise on a PC It is I helpse possible to learn more about astronomy in a Sew short hours with Dayse than in years of studying dry textbooks Richard Borry Astronomy This reviewer has ancountered

ewiting corrus of programs for Philip Mornson, Sc. American





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\$1.4 billion and year worldwide. Dut the to a single digital map, and when may their occupal purpose, problems each

selvictee? Who is liable when an ambu-

is College Ways at horse had available will the new confocrathers implicant on individual freedom? "The downside of the new cartography is that this is the technology of George Orthing makes the Big Brother society

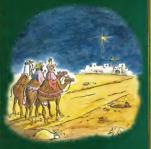
possible this will Faty access to decoraphy: data has rispred a different perspective in the 1,50, or ESRI, a top seler of magging software Denormond considered a cuat among the reserved property and public accurry of opvermental behavor in short, on the particularly becomes you and me. "No see the consumers of government," he arraige "Why not be 8 wall-informed consumer? The current hattle over connections.

ground for Dangermond's vision. With state legislatures and governors' officconsidered is not consequently by the health to analyze the seaute of the 1960 persun. As of April 1, 1991, the congus deta, which chart a block-by block analyas of population, voting age negulating and recial mekeup, has been publick available on CD-RDM

"Democrats Republicane maurumen ethnic groups, anyone, can come up by public law," says Cowen of the gnos a clased-door back room doul to a level of democracy use vs paver seen new cartography stands to unlock a that digital mapping will allow people to "We're reaching the rapped edge of sonortwity on this plane!" he save Transaction recoverables and there's not arough firms to focus on them RIS promises to interelate ioms, we'll understand them "DO

## ITY A WONDERFUL LIFE FORCE

CARTOONS BY FRANK COTHAM



But suppose it turns out to be aware grain





"I know it! Another UFO cover up?





# DRATING Y IN THE FINAL FRONT



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# CLASS ACTS

composition, and create hundreds of

ruder systems into "Wast of the computdeveloped a computer model of baseangle of the bat affect the distance a

Freshmen at Thomas Jefferson take and technology cineses find office. skills in all those sours. In desagning an by preparet their Engines to the class

ing to Gaudreaut. The impetus comes from the students and the Inculty. The students who have the motivotion are drawn to the teachers with the energy When that link is made. frings take off

must that Thomas Jaffarson office "You're talking about research on the cutting edge research that requires mustirr diggs, challer pott me," sewa Albert Tec-

ics at Shavesact High School, What Shappeard rivers have in the crity's from students. "We get the cream of the crop. And when you start with that, the rost is eggy Within the school: technology plays a neobable role in feedbing science— "Zinh" gove the fact tolkenn Taxon toch

But once outside the building on Manhatter's Lower East Side, Stavensort's students by buch incressed research to ER /7580

nell Medical School to New York Un teachity and Columbia Linearisty Muri Stavesant is learned outside its walls "Mains a reseasort factory." Teren dosh says. 'We have a lorne research system in the school, the mechanism to in biology chamistry, physics " From their freehmen year. Stuyyesani's shi deets learn the resilties of smartfir research by taken data, diaffing propos als, departing appenments and models dents prepare they Westinghouse pa 1991 Westinghouse finalists who present

The students to the teachers with the

> When that link is things take off. 9

search class! helioves hymnoif to be the other it's all year cooperative "Torrendech says. "I'd the to their that one hunhave a burning desire for science and math, but the for notion. But we offer the buts what no other actual can offerpeople just the thomselves. They all fit in hermine hav at howe the intellectu

cush the envelope of classroom so-500 sursors and sursors consided from throughout the copie has on a commun Life Stanesant the School for Science and Mathematics stresses meeting up. substantial technological base, includero a recomminant ONA leborators that's become an important part of the

actional's program "They do their work here on campus," says the school's head of science. Steve Warshaw also produces some very impressive thesizing diamonds to photographing If they on mally interested in research as a career" Warehors save The School sponseds the needs of scientific excellance to other actively throughout ers-more than 3,000 in the dozen ed on everything from windogs and per even by lusning them equipment Just outside Derver, Barry Schwartz "The senior class teacher for the re-

> truck data from a radon fileasurement one in Alaska and another in Germany achpolers see the effects of a longstance. "The inchrology almay up to do throng we codiffit do in the past says fictwartz "Everybody needs ac-

computers that Jefferson County has

But not crafe manyone sees technol ence teacher and witeran of thirty years in the classroom, women that personne. At some most you have to and seeing that things don't always Basi-world explorations and relevant

research broce on more than ket not ing to the teachers at the orige of solsays Teniev of the National Science Tearrison Association The real computer revolution is in little plassaryone whose they're teaching kids to think " wosen's Tarendash "It's absolutely vitel that we have the best opposition occsible. After all these are the people who haps the world."

All sorres remarkable arthrois though ready are DO

# OTHER SHORE

but each time he had a vision of smiled mrthlessly as he pulled on a deen shirt Chargo

"Oksy," Wolfe said "Should be right the arport service road, driving parai-

rowed his eyes, trying to make out the Took where those whote are. They d slowed down, and the lead car was and tell those voltable to close it up Wille was reaching for the hopdoor to the cross who need to the road. As word from and thermed overhead, vidagainst the black of the hull. A moment

A signed of noisiers running double-Worle got out to inspect the scene. A morrent later he leaned back made Pushing the door open, Dave creat order, facing away from the car.

was standing beside him gazing at the with the knot of he ter "Think I should Relayed Dave somebody Issobed and Wolfe said "Art. get on the goddamp amplage " Rections shousped and eath a smile began to well toward the plane Dave followed him

strelling stroke see that he was black. He herefaled. 90 CMNI

wondering if he should prah Barton's sem to real him feether sway but then they were upon the soldler Dave olanged up as they went by Whoover the officer was he was a new hir excression didn't even change as they

Days stowed not their not Bedford as they climbed the stops. At the top Shee han and his squad parted to let Red Dave glanced into the rear cabin which was reserved for Redical and himself. Act wise suit withing down two seats back taking to Sheehan and a country of the others. Turning Dawn of his face lighten as he saw them. a moment he wondered why until he re-

The mob not louder as he came into sight. They were

it set most the big plate-glass

right outside 9 Apar, perhaps a Maley taking to an African in tribal robes. But his eyes were cought by the two Handus Street han's men were just completing their search, going over a plump brown man to a floure in uniform, who arswered in gaset but from topes. To be surpose

soft of Drive and cased his hand. Force inc himself to amile Dave norther He leaned against the gardet hand the decrease structure in state of the pione but Dave next them no attention He was thinking of India, eight years ago the free glowing on the horizon the attribut them. To constant panel.

bymod to one that Sheeban had when

him. He looked migrateable at Davis "What" Dave unconsciously subbert his hands on his chest. Year

Do too Most's holden thous un? You click? search 'em until just now? chang game back to the place looking was walking away, so we had to do d all over Wener took advantage to go make some calls. Now we're wating for hen to get his ass aboard. "Nutrin" What the help he done

"Who knows if he sun't back in five gardless." He nodded toward the termurul. The should of the demonstrators had gotten louder, so if they were some-"That bunch won't leave until they don't need a not." He glanced at his water, then back up at Dave "Why

dott you on ford Warner? "Hey, I'm in charge until the plane solls. Sponger way track down that sale-Dave thought it over, then

shrupged "Okay" "Cloud enough," Sheeten said. He turned track to the hetch. "Til keep en

world scropes the concrete to the terms disparture lounge was nearly errory, at They had been told it was going to go searce bearing welched in him by a proof mon in cryllian dictries, he recognized

neither of them There were pierty of phones in the ported but no Nate. He walked on the the hallway. He preced a gar rental oftoo lights on but counter errors, then harried the corner to the watering more. If was probably he magneton, but

were suc part the big plate plats windows, divided into two niquips by a mp like professional demonstrators had the marting professor percels the shark and they signs as he neared the windows the standard symbol, a oreen pagettin marketon the riche others reading DEATH TO ECONAZS and a few with HITLER TON IN and FOR POT In small latters with a huma accompany more unchan



Districted on a field of the late. neath. There were others, crude and

A much smaller group algod in the need them, what they were wearing robes or storm trooper cear brown ing forward in ragged unison, easily heard above the roar of the larger conset 1 touch the unb Seath the unb

He looked ground but saw no sign of Nata Chitaria the nearer mot had spotted him and were learning over the window a middle-good black woman. ng herself and itting the poster she was holden

It wasn't a sign: It was a blown-up photo of a giff, a teensper, hair cut short age. The woman raised it high and shook it at Dave, shouting, her mouth around Nate frowned, then closed his 99 0881

opened wide. He couldn't make out the

Please add 0.5 pour

ment she struggled against them, dropagainst him, body wracked with sobe and they led her out of eight, the shortterminal, shaking his head. There had

U.S., too. Not as bad as the reet of the world, but enough About of him a loose cannote of poffee stand, staring at him in open sus-

in his other ear and was gesturing broad-

Dave tenned him on the shoulder pointing to his watch as he seems

for this round, but see what we can do get involved. Listen, Maggie, the plans's leaving. Call you from Dehi. pling if, he tossed if mo a hear cangrabbing his arm. "What are you do no in the States prywey?

Nate took off his planner to police them, peering at Dave neareightedly use hale a horseshop, classes porthole called back to Washington They're confirmal about a wireum nomebody Mexico I had to hold their hands and border." He slipped the glasses back on and smiled "So how you doing? They welked through the terminal talk-

the about notions in paracular. The one speak, paid them no attention. Sheetan was water at the top of the them, then stepped inside. "Okay, let's



FEATURES PACIFICIES

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get this wagon in the air There was a right of voices as Dave laughed then burned to hake they way keep a look of desperation cut of his then his smile vanished and he sall Drawn burners to Shoothan, who was

checking his weigh "Dikay," he said "Yesh All buttoned up " The hartwoore door opened behind

tomstoally name to his holster. He let short "Wolfe, for Danaging. Will you "You're leaving man?" Wolfe number next them still firktion with the belt "I don't werns go to India They

Shakima bus based. Dates looked man at Sheehan, who strugged and vanished down the sterns. A recovered lates eyes closed As Dave sat down he opened them and smied wanly

"The game we were playing this alternoon," Bedford said, his smile broad-"Alt come on Art Vivi know Lourit play in my head Neither can I, usually, but my He chuckled, and Dave was about to

The plane was windowless, but there was a screen up forward and two door. The army troops had recreated to slid across the screen, varieting as the noticed has litters bounted to the west, watching for somebody with a

current The Minne stated upont control

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his soat bolt. He reached down and did

rolled As the freunt of takent counted him mind. An hour to the coast, two hours correstores, which would be what in India ...? He tred to work it out in his

head but gave up. He'd check a sched Bartleyd sons riffing with her owns halftet's out it was the kind of face womon trusted, and Barlinot had been a ong with a different woman Dave know that as he know averathern also He's read virtually everything written by or about Redford before he'd over met

What are you thinking about Gaye? Bedford said without changing swering If he was over going to get the mith out of him-even a small mone of it-hald better start now "I was just re-

membering what Olivers kept colling me-'Charon He called me Charon share. I cidn't know what the hell he was lafeing about 14ed to look if up." Bedford chuckled quetly "I can't say

I agree. Chargo was a pretty gold Redired's evolutions rose "Double's seat. Dove sat back feeting vacuely setyment on a belt hear telder private sang Wolf, there was nightly of time. The tool would lest at least a morth, with mywouldn't insten any

They'd never streken much should the in the abstract, as if it had nothing to in with them personally Berlinst rethe difficulty of creeting a microgram son that would infert only select nonvehe'd said nothing even though he'd thought about 1-bis own writings

Dave planged over at him, lying told Redford about locks. The plane reached cruzing elliquide glanged of his watch. Another halfhour before they boosted. He decided bet, he got up, walking questly so as not to deturb Bedford. As he was

mude him look back. Rections had mankmored of heird mary hopen extense at all sick fear. As Days met his plance the expression variation, replaced by a wondering whether to go back, but Just past the batwoom he game up-

on Nate in the error strong that was the princeto europe for a coder, bio une pour and himself is cup of coffee out of an uniattend in the place of lyoner shows the minimuse He looked up at Dave inguaranty "West one?" Dave mulier it over "Gueso I'd

Pouring another. Nate handed it to him Dave took a on and ormaced-

packet of creamer and dumned it in ofter rap

"So where are you sitting?" Dave "Oh I set up troot for takeoff" Nati and pestung with his cun "They

'About how you'd expect. Hiding 6 well, though, I've got to admit. He's Draining his cup, Nate turned to the um 'Sleep of the set." he multiprest on low that Dave barely heard him. Cup filled, he drew himself up and eyed

Dave "I hear you think he's innocent" Note craticed a couple of packs of sugar. "You said the evidence against

him was shift T seed it wouldn't stand up in an Amer Motor's even corresport. "So what the Openmouthed Dave street at him

not oven with Olbers, when he'd had good reason. "Tim and keeping an open crowset? "An open mind," Nate said. He tore at a packet of creamer and shock it courter "Must be an awful moe thing to have. You, Wils, the AG, all open

"What are you, Nata, switching to the Note groved him while he street the coffee. When he looked up his tace was

WAT Direc looked away and shrupped Nate needed to himself as if he diescountered a great Indh. "Yeah" he sort "Vert. I there has not the mark or

Wordesely he pushed peet. Still Inc. left his work case. The top fine was was up. He aimed to call out and saw Nate standing a few feet only the sear as Dave racked up the case. Grashing the handle, he stood free hidding soul finally "Jet lan I muses

"In truth " Note headed lowest the

He considered another cun of coffee want compartment Conversation turned to inspect him before going or in lower tones. The plump Indian, weer rose as Dave approached, giving him

men?" Nagur gard as he sat back

down, hitching his pants up at the

work and play.

et-attached to the locian covernment. school. His English was perfect, with who cidn't act as if every last American Smiting, Dave set back "Now you

> Oh, a dustup with your new adminhand "They've been a bit trying about our not holding elections, so I was

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out why there doesn't . how to be a

nordic

sont to see to them. An energy different to with not the veguest idea of when the subconfinant or, much less the conditions there. He shock has head. "And if happens every four years, I don't see how you manage."
"How are those surveyor?"

years. I don't see how you manage." How as things, anywey? "On.
Neary, anywey?" on.
Neary, anywe firm apprearingly. "On.
Neary, anywe firm any

we thought it best to keep the lid on."
They'd still infusing to go back to the villages.
"Yes, Of course, one can't blame from Most of them are living batter from they possibly could anywhere size." He sighted: "I suppose we'll been to set in our house in the versions."

neve to put our hopes in the younger generation."

Dave merely shrugged, there was noting that could be said to that I was the same throughout the Southern Many a new form of mass neurobis, a type of sunerors shock Quite simply, they had ended the end of the sortid and saw no reason for going or Nocus was still speaking "Aside

no reation for gamp or Nocus was 501 speaking. "Audit from that, if is the usual thing Bandary, butly complete, speculation in lood supplies and so forth, it seams a typinous peptident in the source and so forth, it seams a typinous soon as we get book." He shrupped "Were managing at least it could be far aroots thin behard for him the Chi-dra words thin behard of their their Chi-dra words thin behard of their their Chi-dra words their children and their chil

"Wire managing at least It could be far worse Wikhs better off than the Chness. the poor darks."

Dave nodded in stent agreement Chi na was everybody's baid conscience in haid collegsed totally in the wake of the Plague. The Plassars haid stan over the northern quarter, for framer/pares

Plaque The Russem had taken over all be nothern quarter, for humanismum reasons, they said, and there was a same semisoral of order there. But the rect was held on earth it was put too by too encounces tack for anyone to take up. There were whole cross in the bright or generations, if ever, province my retail of the Attendance of the

else on the planet, but it was fulfe. The only thing that would heet China wise.

doing," Naqui saxt, hands cleeped in front of him. Davis grimsced: "As well as they all

Leaning forward. Naqui touched him on his lease. "Lindestand that there is some doubt about this Than Bedford." Wordseek, Dave blinked at him, wordering how he could possibly have heard flague gazedback a monerobefore setting into the least. "Fee," he said quality.

said quoty.

Naga frowned at the catal floor belove going on. "There's something you should know," his said in a low stoce.
"Under the rose, of pourse. There seems to be a conviction in Nationalist Party croise that your poverment has seet on a ringer who can be proyted. Independent on profess that the seet on a ringer party cross that you poverment has seet on a ringer who can be proyted.

"Bulleti," Dave said
"Ludictica, Lagner Utlerly paramed,
but there you are. Write doing our
best to put a stop to it, but we haver!
made much headway. We do know
that there will be an attempt on your
man somatine ballete the rise begins."

"Grozi" Deve said "Just what we reed."
"Probably be wise to change the spot where half be held. but I world lied you have to do your, on Natyu gianced over his shoulder then went on yoursely. "We ji gov you what help we can needleen to say Our problem all will coopuse if further after went.

land."

Dave stateted to repty, but Natus was getting up Looking past ten Dave saw a young Paststate in uniform coming down the sale. He hasted and spoke to Natus in high-potened Units. Natus harned back to Dave. Some bother at home, he said. "Me'll speak test."

"Right," Dave said. "And thanks."

Liaming back against the seet, Dave boiled up at the screen wondering where they were. It was totally black, not even any stars—the campas werent screensive enough to push them up. Well out over the Pacific, most likely the nothed that the societ warring light beneath the screen was series to be the third were benefit the stars of the screen was the Starses, the teach were benefit the stars of the screen was the Starses on the teach were benefit the stars of the screen was the Starses of the screen was the screen was the Starses of the screen was the screen wa

He felt a state of irrelation or News to suppressed a. Newma necessor, belowing the measurement but he had no tree or existing homest made to be suppressed in the had no tree. Parent had done this a fever. There was a holdworkening at the prior of he soon such as the thought of what warrier than it was deferrent, perchane knowing it was coming. And the government method to be faste it was oping to be presented.



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- If someone can water the
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New the reconstruct of the future can be

To CHAM MAGNIM James Johns Josephine #2017 Day June

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He let he head rest against the cabin wall. A distant thrumming came through the metal, no sound, they place of mightmares. He'd been twenty, in his second

war of college when he'd volunteered for one of the rotal teams. They seen

mercing, ben't seen of the news reports found Nothing gould have the constant stench of death, the piles of corpses. taken to append off by himself so that no at a tab of considered water and solution white immunization the surveyors appared

cholora a photo out from two torreso in to keep things interesting. The tent had been motited-there were so many of them stanged sails covered holding the invector 14e couldn't remember much but they told him later that

seemed with mappore in the tropical 2 had negreed to him then that he reach the end, that the zone of death

the last stricking remnant of a taked the camps ranging the city, injector chitched in his band. The selumes cafe.

ly After a time he down herself -- m They could have murdered him then,

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at reviel headquarters, the old man sayng a few words het. Dase helds turbarstood He flew home he nest day. They'd had different names for it to Salvaging. the Crewing, as if gliving it an innocuous better could seasies what they'd done. A sample concept that had or more of the human scale had to be deminated to aset environmental cotactoping Held or more—the iscoss tromass? of the planet Earth. What is glinase, they had phrases for every-

Fing.
They'd stud to justify it least efter they'd been caught, but there was no wething it. The population explosion had fazing. The size of innecess had been disopony worklands for decades. Everyone was been find, not well, but oncopy. Environmental problems were under control. A reconver. all the work.

least, though there had been plenty of dabbase.

But the Porser Group hadn't had tree for debate They had we better. They had made they plant, had done they work, and had cost it into the world blowing used of Stan.

And there had been the final twet, that the bschus had been saland to inlect only non-Daccasaria. Dave had asked Reed about that, after he'd broken down on the plane. Reed had anseried immediatory. "Bucause they were the largest population reservor, of course."

But that wasn't the answer it hour's exactly been classes where so to many had said arose. The talk was much asper, far more base, as base as blood said because they'd locked the guts to let the thing our its course so talked to portion of the whole race. Their own would have been at mix from would have been at mix from the much think the second properties. It must have been so easy, verying in existion, musted them say woon their mixed.

grounds of logic, of ethics, of decemby Sacring out with an idea had grow his a sourher that bot on a life of the own all they realized that they had the power do a thing, unmagned in history Sameday you't thank us. Reed his saud, as held eit the cell for the last time. Not me, Deue told hamselt, as he had not fill seek a size me. ing at time. Across the sale the overweight Hindle sale hand powed about the proble partie—but he wanted bod the proble partie—but he wanted bod toward Dave. Eyes found on the mouth bested on a retail that on its round sale look and the sale but but Startled he splead up in the seal looking away introversely. When he are the sale but the sale but sale but the sale but the parties of the sale but the area to he was the sale but the sale to the sale but the sale has been as the sale to the sale but the sale to the sale to the sale but the sale s

The College about of buggles before the college about of the college abo

In the local of motive room with a west being with the local of the lo

pile would be servents to them for a hundred years. He had be mind to go over and shalle him weeks and ask him. Ask him what? If he needed a blanker? Bubbing the back of his neck, he hand serve like observed in the other

turned away He glanced at the coffee um. Not tited as the was, he had no more use for that marty stuff. Besides, the last sup was working on hem. He looked down the length of the prime than teepped to the rest soon. The room was missioule, he was able to seet his fixed on his arm as he leaved over the bow! He farished and leaved over the bow! He farished and

by of hot water, anyway bending over he splashed some on his face. There was a small minor above the sink and as he straightened up he saw himsel



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in it, water dripping from noce and thin this eyes wine surfeet, with black circles around them. He grimtood and was shooked to see the result is despead, who is lient that he never would have pictured. He dispiped his head Might as well from It He was shough. He took some paper towels from the

chiperset, ocores brown staff first stered to tear the minute it was damp Noo, he thought as he dised his tace. A hundred-million-dollar spaceptime and they put this copy in the bathroom Wadding the towels, he tossed them and lociated back in the minor.

them and looked back in the mirror, streightening has be and unning a hand over his har. He third arring at himself, but he clidh't much like that offect either. Wile had been right. He had no busi-

was in twent fair to anycody or him to try to stagger through it at this point the following the could arrange things with the team in Dahi.

That still left Art. He closed his eyes, wishing the following potten on the claims. If we control the very selection is selected to the country to t

passin. I vivide genry side in revision an innove. What could the dot, with I him.

"They're goding better goding to the could use Asian, no, that was no good to be could be goding to the goding to

It was the Hindu as fivid guessed it would be. He was strending with a back to the anels, saving something with one hand while he shock Bestleed with the other, Withing him body out of the seet, sometimen in a motivar of Hindu and English that Deve couldn't make any some oit Bestlerd was storing up of the cept with

Dave reached for his gan but dropped his head as he touched the grap he san down the seek and as he was reaching for him the Handudopped the thinghe was waving, grabbing the lappel of Bedford's dout to shale him hander, Dave could see An's head bubbling street projects.

man's arms and reached up to cup trees batted his head. He could small him, a combination of swat and some land of shaving lobor as he yarked him into the scale. The hindu kept he grip on Bedford incomprision shart then



I should warn you I'm an artist



Artist - Warn me?/

Warn me?/

I'm the one

with the gun /











tura hefore tem notif?" he sed quetly

"Set off him." Dave volled, inches away

The man hesistated, then released Berthard who formed half in the gold

and helf in the seat. The Hindu strug-gled for a moment as Davo pulled him

ng them both flat. "He killed them."

he could out his voice thick, then,

Down ont two turners about and start-

Almoan the Latins the unidentifi-

derly, followed by Nagus. The acidler

the others back, he nedded to Dave

then surred to help the orderly. As

back to Bedford. His face was

ort man ' he shouldt thus let them

was on his feet his regular open. He set

anie Turning to Redford Dawn waw wild-eyed at the from caber. As Diave

weet over Berthard looked down of the

something bying atop it. He pushed at d. headenth, as it alread to touch it.

ured at full into the case. Down packed it

and showing the Hindu man, much tripper and with more her, saling next to a young women in a san. On their

lans was a boy in a nation still her black har combed toward in barron

He felt Note come up beside him and boorded at a humaniform in went Bartland

faced on the now-erroty doorway. At Diver underhard him been draw indole from

MOD A

and then he starmed hask grad walkers toward the front catern helding the pro-Down humand to Bacthurt "New all Bufford looked owny "What's his

moment be set stood there, saying nothabend DO

owned on Nata Winet no year lookene Surrows to Nate. Days sper that he

problem?" he seed freely "You wouldn't know would you?"

undying hefred of the brown people 11 what changes to make. As he got up the acress country his ave it was no of light in the center, red and pols, and he restored that they had count up the sea. Then he walked to the front of

I will be your Charco. Dave told him Hant have to cell Delty, to tell them

stacked the carpet for a few seconds Nata s wife was a serse: a Japanese. ... He stopped speek-Rectord was starred into space, his eves empty. He lifted his hands to that would ahelter him. A shudder word through him, then he appliesed we firmself up in the seat. He dropped totally calm. Dave looked back in sa-Nate had, knowing it was fulfu, hald Berfford smiled "Game of check?" he part his young busky. He synd Dave for a moment, then laughed. deep in his throat. "No the not up and Henned into the pusio "Maybe later, Dave," he said, and walked to the back of the cares Down watched him on Barthyd ha Bedford the sucrifice Radford was the last of them, there was no exit no way to lay that burden down. Not for the fat Hindu, not for Nate, not for Dave himself. He would run from dead streets for all the years Restord had reached the last seal instead he merely set down where he

To put Black under

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Sandagy: Soviet onthusiasm is alveof attacks on the space program and our economic crisis. Birth new me need to attract support with more modnot projects-using space for terresing and depletion of the gaone lawer tion involving pooling of resources, not each other Why not cooperate? humarland. Why shouldn't humariand cooperate in explanag #9 A remoterepresenting many different courtness can under the efforts of all those nations Own: When you observed by workers Septemy: In my original research area.

foreign scientists. And I benefited from sourcests but to oppropers, technicians. even army officers and soldiers who The Vaga mession to Halley's Cornel tists. Huge arounds of Streets and peothe employees of IKs, other research in-

the number of individual lives affected

people, it was their trist taste of inter Other: Was the first Boylet space mension open to outrade notutary? the first time the lounch of a Proton mod-

of was shown on TV Meny of my cles fold me pregnery. "This is a high cated multistage mission, with many inknown only to a small circle of people. before final operation

Ones. A few hours before the leunch? ta from Helley's Cornell in the days bethree hours a right on the cough in me office. Quite a few sciencists slept in the most except named of my scients. Cestif: The range program of the for mer USSR is strapped for cash, so it's ade on rockets, even rides to TV reporters. How helpful can this be? smartest space program pan't support treff on a commercial basis. A space or weather forecasting, for example. But

nanono scientific missions, there will nev-Oran; Can Soviet Inventors with promcommittee such week reas-up Busses we young people tend to abandon scien-

They might for ecomple, develop com-Those worns countries or engineers they can at a government institute Such disposits is not beatty, basis ontablished institutes, are unable to supconstitute those with established narray and precions, are sufferno. want to leave Every embassy in Moscow is under siege. Science in our recultibles as an envisionment annexes. Orne: Now that you work mostly in the stopped dong plasma physics (the median "sound" I to my early corner I wanted to apply it to cormolled fusion. mbredges. The scenes matter of inter-

planetary space is also a kind of plasma it's been a good field to work in citi mary held of chaos. For chaoso besystem and pleams is the most unstable substance imaginable. You think ures have released carrier contact. Then volcoped a completely different type of matabalty. There's a postero escocation

Sagger. There's a lend of cultural ber-Aimost grything they study is unlouch mon sense. As a physicist you from a new language to understand and do.

ner in ramily to the barner reparation ner, they use an interpreter in the protors. They've learned the language I spent many years trying to develop a theory of tokamaks. Tokamaks are

These five voters were good experimentalists:

they observed that fifteen minutes after my write I was still there, no one had

taken me away. And so they joined me ?

huge, highly fortified machines used in controlled fusion. They contain a plasma deep within lowers of walls and insulation. The returnments that extract dato from the plasma are built like huge turnels leading into this moralistico. So maidsoff Scientists don Leven sit in the same more with the tokernak when the age in a sense they are no different from unage acceptants or porticile obsess. cuts who sit next to their computer display screeps

Comed. Dark york space space to married some Sandeev: I never thought about it. By the time Souther was launched in 1997. by training and temperament. But the more of kie is such that now (in here in to a cosmonaut who was sent on a mission to a different clanet. Doe underacele et les and culture shock But I as a driver in America, was immediapery given the freedom to turn note as a red light! Sometimes I feel there is too much choice here. In Russia my comcutoots envy me bacause they don't to read freough many pages of a manu just to select the tood I want for one

Ontar A report some of Soviet Life recalled that as a young physicist you pledged to make one scientific discovery of international importance, two of national importance, and those of She-

Sapdeev. That was a toke made by in Erveets in the absence of market compension, the covernment created artificial competition. Local appanatches were sherve preserving continue Were inways pressuring

should be a Hero of Socialist Labort Will you promise?" Some trends I naily Will you promise? Gothe mends that and made up the formule, which they promised to fulfill arrivally But when States Life period up the story, 4 defet pat the some in science.

as in any creative profession, you canplan somebook else presorbes. That is by the unexpected. If you can live with that uncertainty and are willing to work entist. If you need to be handed on insurance policy that navn. "You are year 1 you should work for an insurance

company DO

Prove \$2 FFst Stead Young 12 too last John Stea ort enou 12 me motifs Clary Linan econ 12 tap right Richard Howard, prigs 12 before (Sala Churri pugu 18 Jan Dhaharan guay 25 John Matter, page 22 top I/n and Editoria Supragram for tone 22 mobile Class Scharged many 22 heathers Lee Finding many 26 better Jam Berry core 30 ton Alon law Ways room 2d bottom Princi Door, Sank come 38 ton Kert Bland come 30 bet.

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