EXCLUSIVE: DESIGNING DEEP SPACE NINE

BEHIND THE SCENES OF THE NEW STAR TREK SERIES!



SPECIAL REPORT-NEW CANCER CURES: STORIES FROM THE CELL WARS UFO UPDATE:SECRET ALIEN CONFERENCE AT MIT: SPY SECRETS REVEALED: CIA CHIEF WILLIAM COLBY TALKSI: PLAYTIME: CO GAME MACHINES AND CHALLENGING PUZZLES SCIENCE FICTION: THE BATTLE OF LONG ISLAND





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DEPARTMENTS

4 Pirat Word By Bryan Approved Science docont have all the answers 6 Communications Readors when 8

Punds By Linda Merce 10 Forum

By Kith Farrel 12 The Great Treasure Hunt

16 Political Solence

By Tom Dworetzky A ganado Pandasa's box 17

Spice By Paristel Bloc

Electronic Universe By Grogg Kozer

Huseums By Peggy Nooran Enter the world of the Advecs

Medicine By Stove Neets

25 Continuum 96 Games

By Scot Mom







David Beacholl taiks to the case (cover photo by Torn Zimberch) and creators of Desp Space Area nour ower story, and set desgree Herman Zimmerman lots readers in on the show's destinctive look. (Additional ant and photo credits, page 86)

FEATURES

34 Behind the Scenes of Star Trak Deep Souce Nine hes topograph Architect of Huminor Designing Aug Space Mine 50 The Cencer Wer INTERNATION DESCRIPTION 50 Unconventional Cancer Treatments By Defits Monroe 6.9 Detico: The Battle of Lorn Island Du Negrus Kinen 70 Interview UEO Uretate

FIRST WORD

SEDUCTIVE PROPAGANDA. The metoric of triumphant scientism

By Bryan Appleyard

Appresent Science transports the extin issue of iiie an earth issue for realm of transcendent the realm of the



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But subministly, our vegue investmess of and grafilude for the case and ulocquir of sechnology prepares us to accept the larger claim of sechnol-bat atoms can lead us to food if the solved so many of our liffs probhams maybe if can solve the tog one After all both flying and electrically boking water are measurlose in their deferent ways and our cleas of God is caught accompanied by minacles

The unerguable and spectradat affectiveness is the ace up corpore slower whatever olde we may bink oil, we have to accept that scence works. Pen calin cares disease, alreadt fly, crops province intersively becouse of ferthern

Science tells us that there and things called problems that have things called colutions and it tells us by showing us. So the effectiveness of science greas us more than hot water or the facility/do here good misso, it gives us a fathal, that we can greap every thing over things we cannot see this advectages a divergence.

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Promithe book Understanding the Present' Science and the Soul of Modern Man Copyright 8 by Bryan Appleyard. To be published by Doubleday in March 1963.

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READERS' WRITES

The power of suggestion, side-splitting surgery, and was Annie in her gun?

At the Count of Them.

Lappiaud your entrie on past ives (Peber 1992) for gwing space to such an tion is at ineffective and extended by date of induced suppossibility then and the and even casual comments made by practices and approach the problems of the turnan mind with eals, workship

Hearts and Minds

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Laura Lansberry

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Mat Cakiwoli

found "Hanny Hunting Ground" [Antmetter, November 1992) anything but strong and powerful that a burtler feld instead of requesting that they be Who, or what does the hunter love? His who, if what does no former over the

Kalhenne J. Tirmnal Columbia SCCO

FUNDS

FINANCE SOFTWARE: High-tach money managers

By Linda Marsa



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Even computerphobes can or parize their finances with Incute



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Microsoft Maney Version 20 (Windows, \$69.95) offers a simiIar package of easy-to-use programs to print checks, belance your checkbook set budgets amorfice leans, calculate net worth, and prepare tax information

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Pesity's WeathBuilder by Mound ay Magazine (DOS, Mecriticith, \$73.96) arris users with more sophisticated financial-planning biotic Wala-II scenterice inwintory usati investment princepteus and hen forcher in gaste lise early retrainment of buying a versition home. The information is used to owngute what you'll need to save and to formulate general guidelings at to which assets should be allocated to meet those observer.

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Of ocurais, the doubtful any of these programs will supplant feeth-and-blood interactal analysis anytime soon. But they are a sensible way to userp-start organizing your frames DO

FORUM

STAR TREK: DEEP SPACE NINE Real science, real science fiction?



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What we are doing-the real

POLITICAL SCIENCE

NO DELTAS NEED APPLY: Will DNA mutation &F508 make you an outdast?

By Torn Dwaretzky

n most people, cysta throas comes iran the delaton of one amero acid at location 508 in a CF gaine product is mulation known for ahon as AFS08 There's a simple screening lead for it so thet you can find our if you're cenying this mulation thet is find out if your a bolta.

The ability to screen for AFSC0 is an early example of the type of prede today pravide of the type of riggy awariable as the Human Genome Project unravels the Human Denome Project unravels the Human Interest of DNA. This knowledge, however, has impact beyond the method or scientific.

large-scale screening-test program

AC

for this exhibit-specifis genetic fixease went soriseasia avera It outs to the core of our humanty, kits us peer into each other's books of life, and, like a science fotion story in which the liero knows the future, the knowledge poers much moral cuestions.

I once had a teacher who taived alout what is to be a toman being-sometime we only had the potential for Not every homen atimies turned into one. It was up to each of us to develop the capacity to become tury homen within ourselvas, to learn though inoverlaging and weatam.

new genetics takes. Should testing be mandatory? If so, how can the information be load proved? What exception efforts and increase to the genetic data denotes an ensure the genetic data denotes of scoremeng and date of titika and listed the borne? Large order datameng and new forth Large order datameng data the score of mean data and new datameng and the order and the data of data

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These exemptes have clear mphotomic We't have to ded nontreatering ways to use our genetic knowledge and demystly is so that people won't fear the technology and will voluntarity go for screering. We must guarantice the privacy of results as the we don't create yet another uscues for a factor match. We think have to develop in health care polticy for those with become instantion of the second second second matching of the second second second matching of the second second second with the second second second second with and insurance comparison. Second second with and insurance comparison of the predictive deposition of the second in the model was versued these a so-called "precessing presablement of the second seco

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SPACE

MELTDOWN

Going to Mars in a nuclear rocket-if it can get off the ground

By Randall Black

I docan't take a rocket scient tot to zerial frait nucleor powar den up controlwing Vill, uing nuclear kechnology for spaceouth looks almost newrable. The Synthesis Group asked by the Write Holses to examine the space program recently called nudeer power the only proteint perpulsion ayatam for Marts tarant. "Although in Just ear" hers in

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According to Maler, the advanlogs of huides nockhols rests in their high "specific impute compands that of therefore a resulting periods imputes is calculated by diverting pounds of hmat by the flow of lose in pounds part second, and it gives a massive of or hearery superstation in accords. "Devraced systems are currently unring around 450 seconds of specific mysice. Maler says in The Nava system demonstration and 460 seconds and the seconds." back in 1972 We predict we can probably reach 850 easily and inventually reach about a thousand seconds."

That kind of ethickency meens that his times of 450 to 50 days for chemical rockets can be shortened to 100 to 300 days for maticain thermal rockets, according to Gordon Woodbook, director of a Boeing shudy ordered by NA But hat according hughlison cotions and doclared nuclear therreal as the rocket of chapter

Engineers may be convinced, but what about the public?

We are abroad why opposited to any use of nuclear power in space. Instal these Despites, benefit have been able to the second second second second instal second second second instal second second

However, unlike the plutonum in RTGs, the unansum in a nucleor thermal ecclest would not turn redicactive until ne elector week into operation as it left Earth ortiol for Mars.

"We have to make a definition between materials that are dangenous when we asunch them and materials that we use to build a nearbor," Chang-Disz replane

Others trold more moderable views than Gagnos group. We are willing to be convected that this is in appropriate licenselity: oxys Steve Altergood, senior research analyst for the Facteration of American Scientists, which has meetigated express rucebar powet and ruplear propulsion

Potential problems for nuclearpowards spacearist include the postpoting of a mellolaw in space and tappoing of a spent nuclear engrae once if accent plates is measor. One disposal activitya—usad for the United States one and only othing nuclear reactor launched in 1965 a amply laisang sub acches mesonal in a very high, Iong-level or ba, Abroado ava.

A melitown in a sphoerchi on an interplantery insectory would emply straid the crew life any other type of origin failure. In Eath othe, a melitown would enversely complicate trail disposal of the system. The versicate scenario, would be reentry of a motioner engine after it had been activited.

However, Altergood between heal the most elements obtained to nuclear propulsion will come betize at listen powered spacecraft ineven the ground. Shound exciing of the nuclear tocket prototype is party to be enverteemally and politically the bigged funde the protection is bigged.

Controversy may be inevitable, but NASA can look to snother branch of government that operdate a small fleet of nuclear proparted watecks. We are hyung to learn everything we can from the nuclear those. Mills mean DO A inserver vessel of another type: The U.S. and former Soviet marks Areo soocessifiely used in some of their seberarises, providing a mediation that NASA is expert is mediation.



ELECTRONIC UNIVERSE

DUELING DISC PLAYERS: Longing for a single CD-game standard

By Gregg Keizer

und think they were by ing to get us to gut pray-

No, they covern I include your spokes, bos, or evan sorter or a yr bunch womed about the satoria influence of thargeore-crawking parses filed with about the saturd in that moscinates. They are the year people with a though the path people and the TV and turn to refore thom, a mainterment i mitteet. They are the makers of year and the ratio of the though the path people and the path of the path and the path of the

The mail repart offerviews include name-brand companies, like Sega, Sony Nimendo, Philapin, and Tandy All have alsunched, mill lawer and the her description of the second one physical enterthanners, those machines pilay only the games written to their individual specifications

It wouldn't be so bad, this play me and only me attitude. If it was

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Tandy's got a before not of making it if only because its \$700 VIS (Webs Information System) uses a modeled version of Morosoft Windows, the pontiand-click interface popular on PCs that less developmen calcely convent here. compact disc wares from the MPC (Multimedia Personal Computer) standard to the VIS

Right now, though the hardwere with the best oftence of surware with the best oftence of surware with a connects to the popdure. Not only does a cost leasdate. Not only does a cost a doeses if you don't have one sinsado-back the CD play leats in philuly does with costs.

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Such a single CD standard for gentes—like the one auto maires settied on before the find compact, whice was presend —would put an end to the payhodity, playonly-for-foody mathess. Then wild be able to concentrate on gentes, the things that really count CO

MUSEUMS

MOCTEZUMA'S REVENCE The glory of Tenochtritian shines again

By Peggy Noonan



A neuroduction of a carved shore shrwing Coprocessive Iberove: a thene sociation Chantoett, the godiess of torenet who elied in childhirth (above), and a Chebida polychrean pollery pilote and case Spansh copiects were dazadi in the carly last paced across the vilkey of Mosco co and case. Tentoholishi, the evolution of the vilke of Mosco entrancing and challen Last Tencoo Inthe contany, Moscon and Tentoholishi contany, Moscon and the di discovery when they underted tences that workshows to Danwer for Moscon Moscol Heavy can exceptuse that excitationed

"While exhibitions on Attac art have been presented before in the United States raws lare Soversion Day, the music in a chief curator, this ranks as the first to place the objects in their pubural context."

The museum has dedicated more than 40,000 square feet to the one-time-only exhibit, which includes some 300 artifacts.

> try Meeto City's molo Mayor Maseum and National Maseum of

Antiropology When the unfile ords on February 11, the Young unes will return to Mesono Day, with no addisend vusits to the Qurrators, a Mesotimetizam enport and preferance of religious actions at the University of Colorratio at Boulder was biolecited by time Meeting and Mesotim Means the Meeting and Mesotim Means the Meeting and Mesotim Means Timpia Meyor Musican, collabomade with Day to long the attritests from Mesoco and anarops the unique exhibit amout them.

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MEDICINE

A STRATEGIC HEALTH INITIATIVE Technology tackles disease around the globe

By Steve Nacls

The sectory loss Register and the University of University Zentre Models School, reschool Overen put a low hours. It began a university computer From Bare a traveled an the form of mide weves to a tray satisfiercalled Heat/Sol - where it was lossed in the control compuar When Heat/Ball how own BL Johns, NewYoundiand, the nado



By enhancesy contrasticolumn between Cochers in the indenstriated and desningang werids, Satellila reay one desningang held eace sach haman tragedy as stanyetten in Scenalia. signer was reasy of a gen or an antiintern instartly lonasched the mosage varies electronic mat, to the Cartinologi Massachusetti, hota quarters of Satellufe, which runs this orbail mail defivery system, called HealthNet, Minutes later, Cars received the tax

However oncultous its nouse the information system could redutorize health-care delivery in the developing works. The good news from Statikater. Health/let represents "marris from heaven.

The International Physicaans for the Prevention of Nuclear War formed SateLife in 1989 to promole peaceful uses of space. "Instead of a Strategic Defense Initadwi – or Star Ware – we resided in Strategic Health Instance." says executive director Charles Clements The goal to reduce or dramate disparities in macked services in industrialized and develpand occuties.

A third of the 44 countines in Almos and Communities with the observations of the second seco

Mail service Proughout the Thred Works is slow and unrelea. ble When the detoctor of Mozamtingue's National Institute of Health roomly works of the Cawaido Cruz Institute in Brazei-the world's premier tropical modecine common-to seale ways of ourbing a growing officiers epidemic, the SLOS tools each institute.

Satellule responded by initialing ground softens in Mezambejus and Biazzi to permit same days communications. Kee of charges The Biazzawite WHO do charges The Biazzawite WHO do contrain and percentisation inabling is to contact other Ansate accurites with takings. The tradsolution of the soften accurate Mezambrayee and Zambran dootors agreed to shree sites at corts ablact one literates.

By the end of this year, Seed-Life expects to build at least 20 ground stations in Africa, each equipped with a PC, is note in cover and transmitte, and an ianterne. (A station can exhibit outly receive and transmit more than 100 pages of text during esch satshifte page—about four times a, day.) The cranications will also place a second satellite in orbit, doubling the capacity of the natwork.

In addition to footering communication between twistin protessecurits, Satol vito anna to bolistic depleted stones of medical literature. In 1992, finianeail crisis forced Zambra's national medical listiaty to cancel its journals.

Method professional methods in the deempiring world can neek hard methods and the second second second second second the first method can anote and the alternative second second second the second second t

Salakule also aluse motion colleguas to alive information round the world Medical litter or Levry Mixes at the University of Florida sends analysis for lakata And the Harverd School Public Hardh and Massachusetabitin a "call-in" service for Habitin a "call-in" service for Habitin and schore and have or determined alives for a low-servicide and and an anion

There a a need for information from the West 'says Jula Royal SateLte's decury director. 'But researchers here also need to snow what's going on in Alnea.'

The SateLife term continues to search for new weys to expand its reach, providing the Third World a backy needed tool for health care. The task for us," sate Konyen physicians in a reclert costmangue to other hieldh-Not usives, is to make the dreams released by the technolory; a weldy "CO



CONTINUUM

VICTORY BY AIR

Experience World War II like the pilots did. Plus, the Red Sea's parting explained, and why women won't nin second anymore

Where were you 50 years ago toda/? were college educated and had perfect

If you water it there, or vestern't even could a back of the get between man

well, is simulate Bolt. The processors are capable of hertest war bated flight emulators from the Great War of the

planes from the F-RU Conserts to the Zeans. You say the clash THE days And most of all, you by the memory after the daying a

rate simulations of actual sorties, you can't help coming to

Damon Siya, colounder of Ace's Dynamic corporation and



the visionary behind the game, sought to means an interactive expenses ciose as possible to cubric a person ri-

time of day. Utilizing technical data

internations that could never be set to paper

the terror of actually being there of dealing with the brining

should give a deep and accurate historical spectronomic

a tool amulation is for our childron, and these first-person -

- OU F C SCHADTEMA



CONTINUUM



The paring of the Hod Sea makes for great paintings, but it may have been a fairly normal occurrence

THE RED SEA PARTED WHEN THE WIND BLEW-MAYBE

For years Biblical activitians, scientists, and artifert role group believers have asked the same quastion about the ancent longelites. How did they cross that Red Set?

concluded that when the Old Testament reported that a

26 OM/2

"strong east wind all the right made the test dry land and the switers wine divided" the Bible could have in fact recorded a matural event

If the wind blows at forty knots for the hours, the shoreline could recease one mito" allowing the largeitee to cross the shallow Gull of Suiz, arguins Doren Not, professor of ocennography at Fioride State University in Thishassee

"Nou have to recognize that the Guil of Basic a wary narrow only ten or backet hundred and twanty miss long and very shallow, leas long and very shallow, leas have a hundred feet deep," Not says if the wind blow for half a day, is would push the water back to form a wave some two feet hoth.

If the wind then stopped blowing, the witter would return and "Noot the entire neoeding zone within minuses," wrote Net and Nathan Paldor, atmospheric sciencia professor at Hobrew University in Jerusalem, in the Mach 1992 Builden of Ne American Alexendrosenal Bodien

Winds in the region have been measured blowing over the land at thirty knots for

EACH DAY, THE WORLD TRADIL CENTER TOWERS IN NEW YORK CITY BURN EINCOUCH FLECTRICITY TO SUPPLY A U.S CITY OF 100,000 PEOPLE

over halt a day, ' Pakker says "These conditions would not occur every year but are not so rare,' Pakker contriues ' Similar phonomena occur is levies such as Lake Ene ' but arnos they often have no effect, they are rande separated.

The activities below the wind might have pushed the water risk to well unto them on their hight hand, " as the Bible says, exposing a ridge dises below about is minin long. On the left may have been a deep area that the wind ocularit ampty.

"The secret of making oneself tresome is not knowing when to stop "

CONVERTING

Some 33.000 cashiyes convertime from junkad cash plan pon 7% octable hoop every day in the United State A fredging Darty, Mastana, company push them to use to hop ator and the environment, extracting millions of adatas worth of plateum, peladum, and motum from the optivation linear the origination installation maans of a omple, polyboober recovery valent.

Becons the late (1976), all case add in the United Dates have had a converter to head have had a converter to head harming compounds. Each of the gadgetor contrains, up to \$100 work of the preclose state work of the preclose state work of the preclose the state of the preclose state the contrains of the \$100 work of the preclose state the contrains of the State work of the preclose state the contrains of the State work of the preclose state the contrains of the state of the contrains and about of the contrains, maintent about of the contrains of well

Person, a D'appeva Index who research malered of classes to provering mouthers to provering power pirets, is no classmouthers about the process mouthers about the process power land - the son - owner ought a power land - about the process of the son - owner ought a power land - about the process - about the prosolution - owner provessive document material mode an approval power owner mode a may those were owner.



Statement could near the first or an

Pervers says "It's a completaly closed-loop system that doesn't discharge any byproducts into the air or the products and the air or the product of

Escensely, the process moders weaking trucklasele of crushed converters in a polyton containing half water and no more chlorine than you'd thid in a public seeming pool. "Ex essectally a weaking machine." Pervasa says: We doni meed a bog polyting tereber like the Japanese to do the job

The comprove has began motiving carsive conversion control operative conversion control operative conversion annually worther 12 months and become the largest plannum producer in the world within the years "Nact based init a long just of the oscienation" sage Perves, who to find of -George Nabbs

A NEW KIND OF

It may never replice the carage, but the hut that US. Department of Agloculure horizedurings got when they pop an ornamerial hut basing Maryana' wichtwent with the toppical passes full has serverithing due oping for it is can withstand the frequent thereas that other departed and concernet.

That alone makes 13 years of paratasing crossbreeding worth the effort for Robert J Knight of the USDA Re Georgia, and after that, we'll probably turn if lobel to breaders in a few years. It centrains anomatics, and it could be a useful fruit crop "

mappics, or reasold area fire loss Age, but A area fire loss Age, but A warn i una fire loss fillos final kingin brages creating al with Plausible could fill obtain the second could be applied to the second second tellaw, storike that about the second a Plang-Plang bat because the phonocerons of the mapping body to be retransported to be court's chromosome to be foreign.

THE 1 I MUUON TONS OF DISPOSABLE PLATES AND CLIPS THAT AMERICANS LISE EACH YEAR WOULD BE SUFFICIENT TO SERVE A PICING TO EVERYONE IN THE WORLD SIX TMILE A YEAR.

search Service in Marri. The edible juicy frait could eventually be grown as an alternative copp as far north as Weetengton DC, making is value to growers in the \$3.3 bitton that industry incelosable

The question is will if that dependably?" Knight says "It's being exclusion now at the USDA's Southeast Fruit and Tree Nut Research Laboratory near Macon,

A lighted of passion that can pairwise dise weater invasion that deallow cathat-hird cade began applying closes of the aliabed octohome, which causes chromosomes to double in number. Now he gets fuzzy green marcon, and yellow hust a bit larger than basebuik



CONTINUUM

WOMEN PLAYING CATCH-UP-

Will worrain—long operatiened the 'weaker ass'—oneday compare against men is world-class foot weak? If a a distinct possibility, according to two University of California, Los Angates interactions who decovered that topninked famale numeric are improving twos as foot as their male countersatis

Bran J. Whipp, professor of physiology, and Susm A. Ward, professor of anenthal ology, began studying numness to optemma the physiological and metabolic factors that allow athlesis to continue breaking records in contential breaking records in

"What we wanted was an index of the metabolic rate during the more so we decided to plot the mean velocity or the average speed, all which a more is num arriving all a works record," Whice explains

Spandy Jacks Avenue Kennes



Analyzing the records of world class men is a vanety of running events over the past cartury, the nessarchers toward automacily no nclose for at all that male athletes have approached their chrose/percental tents.

We expected the times to hash toward adms sort of plateau. Whipp says But we found to our surplise time, over the time spin stability, the events increased linearly. There was no evidence of it table ing of 1

Many lecter contribute to the unspection creates, but the most spinform one is simply that more and intree women have offseter goographical regions are bogming to participate in compositive attribution, "Whog optimist "So as the simple brandom, you is wouth more heady to match the intrinsic genetic material of the athline to the physiological demonstration to even."

Does this mean that men and women will eventually compete side by side in the Dympac Games of the https:// The answer is a definite maybe

The quarters is the trainer tables going to continue in the future. Where points out The one can answer that But if the rans of improvement do contrave as they have then something in the meddle of the twenty first century men and women will be running at approximative the

ISTIE EPHED

The evidence of the pas century suggests there's no mercin to suspect that the 1990s version of Homo aspents represents the ultimate flowening of athlotic potential." Whipp continues That goes for men and women "--Don Veughen



Comparison Lowellow? They change makes from the reases where we wanted

OUL SI, TAH,

Finding suit the local time arthing sait the local time could spon be as easy at gainking all your waich as jour stop of the plane Judith Klaymere, a New York Cey meater, has patented a radio receiver, contineed in an integrated orbut that the into a watch

The logic holesco detect radio forquences barg preadoat in any obj: Kauster explains find more widty of a colocitor of toquariotis in innigae, like a fingerprit hei voouer can compare hei databarg. The more-we also eccession each collic cons find officiential inbies to the fingerprit in the fit of the eccession cons fit of there to alloc which to allow for the ourrest line offevence "And es a beckup time check," Klusher side, twey so other the wetch solarches for the houry time agrint that musy racks stations cent."

The webch will keep correcting the time no instanc how thany time agrees the wearor works Waaches with clopbay panols will also show the nerve of the city the the weare to certainly in

Rether then marillaoturing the watch as himself, Risusner, who also invertied the Starp Waard hims-hald computer will simply soil the integratedionust radio excisiver. to watch comparises Several how alterody expressed interest he save.



CONTINUUM



EXERCISE AT A UARTER A PLAY

Videogames have taken the biame for everything from redeering characteristic Play calcose as taking a sole

of opdiatrics at Cornel Unawroty Marketer Columni comperind about obtaily in

to 25 play Ma Pap-Man while exectoope that heart rate consumption, an indicator of printing uncertainform. her man for the

THE APERCIE (JANNE, COPPOSIDE

SALORS WERE TERRIFED BY THE HUMBLE BARNACIE, THOUGHT TO **BE AN ENORMOUS** CREATURE THAT ARE THE HILLS OF SLIDE

meeting that kets can while having electronic tur-

preserval greation. In fact earna rummer of colories mean that playing a really reamen? "Sorry' Segal Ful McCuthy

THE CAREO CUPE

"Tri kil for a hot-fudge sundael ' Apporting to Juster-Wartran and Richard J dPMED Not previously do women civites balance their manatual overal they eraying has an THE WARTSAME GOODATCH ogy's brain and cognitive reuroscience protoscor Rich-

The Westman creat worth en experiencing PNS and women in a control group a presidente foods-polatoes non condy, cookiesor high protein foods-While the members of the nontrol group didn't alter their exting women with PMS increased their occumptors of high-carbohysio80 foods their neededs becan

Exting carbohydoates inaffects mood states The women with PMS in the Wildmans, study reported substantially less tirod, and more giert' altor eating a their period begins," Judity Wutman azya. Trev're dong Barriebas faal hefter"

carbonychite-lades hot-PMS avmptoms whith women electronic about outers Hot-fudge sundaes, of sugar and cafferne as well as carbohythates instead -Rosserns M. Bare

"Art, the search, is a means and therefore of progress. ment of numeraty forward " -Leo Tolstoy



The Extraterrestrials







Sound stage 4 petrol here baceath the smootry Los open, and you walk lights, director's chare, and busy cameras or leaning over sound-recording devices Walk set-support sinuls. through the smell of associate and coffee and makeup. Take a right past a table Distance. Deep Space Nine more, Toto Write on southed with soft lights WRITE ID & SEGROP station from an Zone The spooed hals and concoursam derker, edger, ecfolds you here craphics, eldnich ing place is steeped cruely and un-Time to meet the

Paramount Pactures



people who are trying to make it their home. "The vision of Gene

Pedderberry was the inspiraton for this series," again Mchade Prior, one of two creation and executive producers of the new show. "It will be as optimistic and hopeful and constructive in forms of how it approaches the lature of hermarkind as Gene designed it for Shir "Nei." Pilor hos clotted the



(Tep) The cast. (Center) tron left. Na ficitor at Major Kira Nervs, Terry Farmall as it. Jadria Dax. Colm Meaner rearising his Next Seneration role as Miles **D'Brien**, and Ski El Fadil as Dr. Julian Rashin Avery Recoks atten) clavs Reniamin Siske. with Cirroc I often as bis son Jaka.



scrept department of Star Trek. The Nact Generators ance the third is observed ST TMG is presently in the moticle of its pormey in official eight All associated with the show take pairs to state that DB9 is not a replacement for ST TMG.

Might //S9 be considered a complement?

"Use of the prmary goals is making this series is to do something we dich it have the opportunity to do in Next Generation. Gene telt that the human being would exclue sufficently by the twenty-



womenhole numperior and possible species, and possible species, and possible species and possible species and into hole species which hole species with a balance hole of species as a collected without species and out used the microkated by a dying object wat Species with the second species and with the balance includes by a dying object. Nati Species object, Nati Species object hole balance balance object hole balance balance of the balance balance

It was have the part of the the Spontal Theory of the subset of the spontal Theory of the subset of the spontal theory of all the spontal theory of the spontal theory of the spontal theory of the spontal theory spontal of the spontal theory spontal theory of the spontal theory of the spontal theory of the spontal theory of the spontal theory the spontal theory of spontal theory of spontal spontal theory spontal spontal

ta tas become so ense thai its conter pprovenus infrate de ity it becomes a inguistry. Anything tat extens pits forceted, Gat and tics and you can't get rul. Once you're arrorad the Ken't hur arrorad the Ken't hur arror and a scroor ban ing the block hale whus, any speeds larror ban ight can recupeyou're these, and posamply in too be.

In the second se

What systelies wilanaloge from the wolmtails by Dilep Spece Wee? What adveraces will be had bettern fitningh (?) Structured fourth occurs to less the party palaciases and the character favor that bound us in the herefore. We that that along four the dimmate interparts are made at way official to get orning to we full that as on both that the part of th

Deep Space Nite Ison Come Robot 1: A reput Buck Deman, to statisti a reput Buck Deman, to statisti a reput poddore 1: Pinite avvie gal a renduzione cate i accornolati hetta ve accornolati hetta accornolati acco

Berman emphasizes the importance of Gene Rodderborry to the new show "Ster Xwk is not about the twenty-louth certary. Ster Yeak is about Rodderberry's vision of the twenty-louth certary."

Berman has been with Next Ganwation from the beginning "Gane and I worked together almost six years. I gaved han inowing very little about Star We and ended up canying the flame for him I learned Roddenberry's languages and beliefs. I became Roddenbarry in absentise tiverything that Star Toek has been is beclass of Roddenberry's influence on me."

What is the background amidst which this new space station hangs?

As related in the

ST TMR approximations Tentage Peri and The Mauntak, a hundhod yeast bolton, he planet Baya and to inhabitants were concurred by the unifiest Cardeourse Howkie Baya convinced the Cardian eraity net anyl frem Baya. Just from Bayan speak abut from Bayan strap and the newly moparatiet Bayana tequan hero " says Piles. " a man who is not just the Starfeet officer who has grain up family for career. Iso Poard, not like Krist who's one of the boys on a grad advecture. He's a mait who has had a tamly and has loss a wide he loved and man man a simil

"He's very humen, isn't tw?" comments Avery Brooks, in a powerful yet sonsitive voice as he ets in this access? Jointon







A Startleet Iwarn, headof by Commander Beejamm Stake, as posted on a ibendhweld Cardanaum space attance nothing Bay-aduated Cardanaum geudge, this lost in write to Bay Toda Ian. Jaila, and a grudge, this lost in write to Bay Toda Ian. Jaila, and a grudge, this lost in write to Bay Toda Ian. Jaila and a grudge, this lost in write Bay Toda Ian. Jaila and the Boy attack on Bay Toda Ian. Bay Toda Ian. Jailan Los Road of the U.S.S. Exterprise, who great stats on the as in the bay analy 1993 We worked to small a la

We wanted to create a new kind of Star Trek

studying his lines between taken 36 mithed of the auffany wenner as not hear his capareses with the leaks". A man of great besting presentant for his air yeaks of stage role of Paul Rubeson and the sair yeaks of stage or his D'raio of Jeak in Specter far fare "Salo of Jeak in Specter far fare "Salo of Jeak in Specter far fare "Salo of Jeak in burned South rearing his son in this enveronment decessible of the weny analise genis D to genito My of



(Top) Nana Visitor, (Cester) Armin Shirmor as Qusrk. (Bettom left) production designor Herman Zimmerman (left) and Marvin Rush, droctor of photography. (Right) Rene Auberjanok Pisys Die.



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These will also be over 300 numer up proce writers. Even if you don't win the Graned Price you could well a dony Walkman CD player is \$25 Git. Cethlicate from Tower Recards or is Drive T-Shart or Draw doo

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The Constant representation of the sector of

This character is jud greet," entryin Auberpoors A starting new lond of thappiless, aller molecule through which his new topping source through thortee features. The's a standard free in the pilot, he says, " don't know where I came from I clore in them if there suprove else live me, the shaps had to base meet of an turnen.

Doe was travel foating in a statub tabody innove water to a or where the here the statub tables of the statub tables of here the statub tables of the statub tables of the here the statub tables of the statub tables of

Dark played by Arim Shimes is a disreputable bat sympathetic Fisien grafo's a batterider in the Fisieneado, a trevier of linking and market are batfing with consistence sold by Cardiating with consistence sold to the time the increases fingers in all monter of contractand, including the secoted belocuities upstates in this bat a kinker version of the new generation Enterminest biointories.

Also assured to the station are Ma-

pr Kina Nerys a Bajoran former terrorst, a late but crucial errival to the character roster

Encourse Producer Motions Note coming of USP. We had consider the Enage Note that and consider the Enage Note that and the Second Second Second the Cardiosistics and a structure frathe Cardiosistic and a structure frademican Informating this astrong who are Deformating that astrong who which is a second Second Second Second out to that the estimation common over, from this we established one of which a structure the second Second

Time a Bappen and serverous an abscalar arbonatic "says News Wator a traugh, young New York actraca, of her character Mayor Kina in her maler during a brank in shooting. If would like to see Bagor totally independent. The Dardestant kin because Bagor was no bager should be them. They arraystrategoody important here yound the statement of the second like these?

Lestemati Jadaa Das cerves as the searce office: "Divis is "Hit is part specise companied of two search bot in transported to the search of the measured likely. "She percents more a bendral in Garks's bar white setpeople work marky, preparing the Promission for timing the next day. Fatrol was mod secontly seen in Hetmater Theo the media wash the begitter (if study grade—and har transport is disclosed) grade—and har transport is disclosed and and with transport in disclosed and and with transport in disclosed and and with transport in the cost of the second and second transport.

How does it feel to have an an-outthinking worm made of jou? "Hot? She brainship having, "Nou't have house the postables of her new parts and she's no exception. Yey body and have - actaba-bas the homoread of a semityreight-year old heating for the thread-having least the wordbas - have the homoread of a semilate - have the homoread of a semitime thread-having least 'Hot? So is officer. Das very doi: you't 'Hot so the out of the homore of a set of y. 'Though after three handhold set of heads and the new homore of a set.'

A datrito fan of the new science offoer is Dr Julian Bashr "He has such a puppy-dog crush on Dax" inte explaint. The twenty-eight year-old part is attracted—but the 300 year-old is juit arrussed. If a so much fun?

"Doctor Julian Bashir is from Earth " says Soddig El Tadf whose deep dark eyes and chatminey will conquer even the 300-year old Dax." Ho sjust ich Star Seet med school with Bying colors. His chose Deep Space Name His specializos in alien life forms. His confident be course he's quite brikent. But in mail His, Re's lable to make metales, because neal His doern't work as well as lentbooks do'.

We in gapping to have a let more human operation of the second second second second second second of the difference between the sec Asia of the difference between the sec Asia of the difference between the second difference the second second second second difference the second second second second difference the second second second second second second second second second difference the second second second second second second second second difference second second second second second second second second second difference second second second difference second second second difference second second second second second second difference second second second second second second second difference second second second second second second second difference second second second second second second second second difference second difference second second second second second second second s

In the initial episode, it fails to Commender Sako to communicate with Pose beings in the midst of a crisis involving Cerclessians shifting around then old lettfory

Litrately, he wormick is operad to interplactic taxet, making DSP not only a creative taxet, making DSP not only a creative taxet for single and a conment—but also the most strategic point in the galaxy for any race with a human for combined.

A lifely spot for the clash of science and race and character and ideas

Supporting this wondriscul init of the luristic science and locknowling are contemporary waterds of antanc acwinos and tuchniclogy—the spocial-effects tokis, the designers, the sounds and technical people whose work on Star Taki. Tak fault Generation has camed them high honors in their felds.

Both Stematics, graphic disagent to comprise a data o welf-known EF lutattor and astronomical antist. Michael Okuda s incoher graphic disigner who has also welfad with Hick and the producets and story editors to longe a tobeenet world of sciences and activitogy—as exemptified by them Star Teet. The Need Generation Technical Manu-4.1 spocks to themit articals ther aitdepartment computers, propr. texminist. and hashing campients.

Both contribute also to another important aspect of Next Generation, and now, Deep Scape Nite

'Our cleane is to do conseitant sci-



erice in both sitews," says Startistical (Sees) Space Neumann in the more action more schering Start, here as to experiment the start of the start of the space start of the space

Okada agrees. "I'm most proud of the tact that these are the only those on into the tact that these are the only those on TV that say, "Somero is not, so one is fart acterize as an enderwor worth pasture," In this society, which has become highboringly articular, its write-chooling, articular gladina, if m will article-holging articular gladina, if m will article-holging articular gladina, if m will be associated with a show that comprises there will as

Design and Stantasch polosi the langest of the slow as well, needing Sinettic bewas well, needing Sinettic bewas to high provide the child of the slow as high provide the child Generation is stratura—and will be the Generation is stratura—and will be there as item well slow up in the show, and any same raise sure we use it and? same Stude

We find very storgly in the sprint of Roderberg that the science should be existing a store of the science should be existing a store of the science science some way to get it is basis in correct agrounding. That's the difference beheven word and acrosy and scores (beam) to take the way scready with definitive be patient; the science word of the hundles discussion (science) word definitive patients and scready word of the hundles discussion (science) word and sciences and the science dising to instructing emelopeed to poring to instructing dises.

Posproduction spocial effects headed by visual-effects producer Rob Legale, kil net upat the phase holts, but the astronomical rights as well, all of which are based on the latest research and scartific generalistics at to initiationtics stars, naturate phasets, and, of memory amendear methods latest log late.

And Deep Space New the space station itself?

"Just saw he model this morning," says Herman Zimmernah, production designer humping between eet work to view the day's firm. "Incredible: The beat immetative live over seen."

Consistency is not just the keynole for the language and concept here, but the visuals as well. Each alen culture is analyzed, their personalities reconcernmenter as FOR THE FIRST TIME FY NNOUNCES



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ILLUSION

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DEEPSPACE

NINE

BY HERMAN

IMMERMAN

When, in a couple of hundred years or so, historians look back on our time, a small toofnote

How it

somewhere in an electronic textbook might say of Star Trek, "It was a uniquely American cultural

the work

phenomenon which occurred in the latter half of the twentieth century, a rich collection of science-

lictors sto as whose basic and enduring appeal was that they haid a positive view of humanitind's

areate a

future: Despite the fact that its messages were couthed in a popular form of entertainment, it managed

hellevable

to make a significant impact on scientific thought. Star Trek's cinematic voyages into the

and visually

awesomeness of space usually asked questions of relevant social significance and, sometimes, offered

dramatic

use and timely analy 51, those questions, always postulating a rational order to nature and the

duran 3

universe and laudiny, humanking's highest ambitions and greatest mersi and scientific achievements?

DESIGNING A BELIEVABLE FUTURE IS HARD AND WONDERFUL WORK.

And 4 hours are on the formats to comm in the obtained to might command. The wave of saces as Uhahnal former command and generations of Annual generations of Annual generations of Annual generations of Annual events and the abort in the abort of the abort in the abort of the abort method by the abort and access of the abort and access of the abort the abort and the abort the abort and the abort abort and the abort abort and a second the abort and abort abort a second there and focused on the abort abort abort and focused on the abort abort abort and abort and there and focused on abort the abort a

The much for feelroots Justice with the teershift of the centry alend on the horizon, we are still actively engaged mark mp their testory. With a who-hour presence as social. Emissiony, "Start may be any space None Paternouri Pioturear most recent magerbased by any red derivery's eriginal behas, has once agen baared official official television screens and perrense to be a distri-



The dasign teem, including Simmerman and artists and dasigness files formhead dasigness files formhead and Michael Okuda, give shape to both the form and founds for form and founds in the form and sto. Original deathas are shown here and on the previous peopand on the previous peop-



er groups more second adventure than they group before the the production delayer of the secondar new tenes. It have had the good fortune to be one of a privilegial group of crists with banch that the opportunity for imagine and pay autoteneous to an extended harvy one of the future—one is which account no compre-weaks and every balance can be up to this or the potential. Metric closes is untaily universal, leaver and concerness. This may be an adverte the tame offered more than the second of the tame.

Because we have a "writing suspension of disballed" at work when we see a drama uniold, we may not reside the drama, but na workveal sense evending sees on a residen-



The secure of the Losse presents the delergie's with on unvarialy difficult charges in 'liable of the 'mapping' of exignmer can court on having exercised the 'mapping' of exreging the sum this saidly to buy or multi-original of the theory of the second second second second second second and edge long moon, drink process, and kitchen, or a wurders necessarial or these second second second second second and second second

Any person tailed to create that which does not exist from does whon we at basis, fixed that warrs whon in a facto be an Russion! He or the is probably a person who many colds at they whon eye to move prove the second second second second second second second is based to they tail back on the tensor that we are an its second they at back the cold second sec

picture or television schein is "en ittadion. The filterrelevision—dyn liusonets—share with us bas and picces of their imaginings, which are added together severianed with visual and sound effects, societ, b bed, and served up for our ansurement

The motion platters production despirer is the untitled of these is users because except for the each is the despirer and his or the traffic are ultivarily viscode to for the traff of each activation of the second platter and the each and reactivation and the each of the platter the traffic of states are sentimized public the condition of second platter and second public the condition of second platter and second public the condition of second platters are sentimized public the condition of second platters are sentimized public the condition of second platters are sentimized and platters and platters are sentimized and platters are sentimized and platters and platters are sentimized and platte



DOC examples we you there to read without needs or the develop language And, the Philos DOC Dock is spocially designed to play both DOC execution and your current collections of analog tapes. Which means, you can keep the cossistion you have new and keep toconstitute you have new and keep toconstitute you have new and keep to-

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Let for which a hospital problem to the problem of the problem of

Lesi Morch is directly provide determination of the second seco

Or calcinear dags and using Begins also lake, the station and using Bega platform form which the Calcination metrics cauld driven throng approxibits on the third factor and parabotic statistic statistics and the statistic metricshield the platform in the statistic bisled the platform is abler dynamic theory on the the Ere Cadassan lates do bisled the platform is abler dynamic the shield the statistic in Statistic metricals of the testers in ablerd ond by them, only to be tailien over the a Statistic over of chaoss and Bastran conscient.

The prime directive from the shows producers was that the station deel must be a principal character in the drama, just as the stanship Enterprise has been Further, the scaland shape of the tableon must be instantly recominated. even at a great distance, and when seen dose up, the detailing must reveal a bizarte alion architecture that's at once fisicareling and strange

The Cardiassens are a powerful refteredo noso of integratical waters first usan on 20ar Net. The Model Generators of the Cardias and the State State State State Interfacient Elevation noso area of a trbilingent and onset for where the state suggest that leve cristical and the state organization of the cristical and the suggest that level of the state of the suggest that levels to arrays

Becept for these wanches and makeup notes, the design team had little information situation database in general or what a startage of their do sign might look like. We had a blenk inheet of paper, hnoe large ampty sound says and three months before set constituction was where to begin

The set resulty two motions lates to the the theory of the

The Cardinseisme, we discovered, bio obtainees in all firings, and they prefer theys in solid of them. So, 2004 the firest insurant accounts from the sistematic solution of the solid times at on the outer mag and three welass at on the outer mg and three welass at on the outer mg and three welass at on the outer mg and three welass the solid so



Cancer's elite commandos Ira Paston, Steve Rosenberg, and Drew Parcoli

THE CANCER WAR: STORIES FROM THE FRONT

BY LINDA MURRAY

Ultimately the battle will be won on the cellular level—the tiny microscopic world of tumors and T cells

The sating is a small, storie room at the National Cancer instruction where two figures — a 30-year-old worsen dryng of ensistenamic cancer, and suggestion Steven Reservices, one of this governments top cancer researchess — portologate in a temper mail. This is an historic experiment—wai controversal as it is poneering Bearchere in this breck this half cancer on the stories.

Then, the wijeb's is into the worseful stight where the interphotester can receiptive I. Only weaks before. Neuroimagi had removed a section of the woman's turnor-into is called in terms of the guarder of the internation turnor-increase stated (TMP), a matail while of cancer calls. Then the concolon war prutied in the felt low where in became a verticality TMP factory, churing out (10) lines the devide valuations (Minner repcond bodie) designed to intrinsic the protect and bad the lumor bady into normalize the protect and bad the lumor bady into normalize.

"The ability to genetically modify human cells and give them properties that these cells have never had before provides an opportunity to design treatment

PHOTOGRAPHS BY MIKE MITCHELL



approaches that previously would have been impossible, "says a hopeful Resenberg:

At least that's the theory Could Recentering is technique be the elevier image insculation that elevitade the set spirit decades searching for? A way of immunoing a patient against his or har own famor? Only Resubles Introde Innova if his technique works it will not decause the outporte even It could be for very pool record Some investigations question which are the fielding gime through was roady for human depemments. It would be reasonable to prove this immunation could clue an evering cancer in animals binkne leading on petients And there are hope who clust it works. Turnorineonose lactor dees not in and of their and add anything. Lange Philo Leder of Harvard Linuxesaty School of Medicine who is a proneer of the approach. "Its abitishanday run in this way. The publicity clich Looma alter the experiment was a success. It canno at this beginning because is implifible quite uninteresting when its all finished."

Welcome to the War on Cancer, circle 1983 When It was declared with great qualo with the National Cancer

CANCER LEXICON

Antibody: A national substance perclused by certain while clood cells that recognizes foreign invaders in the body—with the frequent exception of cancer—and seeks frem cut to desize.

Arthgens Unique protein massers for each type of carcair, which are infunded to alert the killer T cells to search and deatery furnic cells

B-cell lymphome. Cancer of the white blood cells that corruly produces detense hofting artificides

Bispecific antibody: An antibody with two tanding stas, One attacties to the turner cell, and the other binds to a proget indecute or letter. T cell, bringing the two together for destruction of the cancer cell.

Cases A word that robot to approximately 150 diseases that words two characteristics: uncontrolled growth of cells, and the ability to invade and darlege

Cancer minuselogy. A fairl of scientific study based on the premise that the body's ensure system can be mobilized execut cancer.

Cancer-suppressing genes: Also called antoncoganos and larmo-suppressing penes, they are inoclivated when cancer is expressed and can no longer product a normal protein that suppresso concor.

Chemoprevention: The process of preventing cancer occurrence with anticiancer compounds found in loods and plants.

D-kindnese A compound contained in mange-precide that has chamatic power to prevent and barrati bread concer in chimate and may guard against elecidancer in furnism.

DNA: The molecular blueport of tweedey

Genetic argumeering. The means to antificually replicate harmin proteins to addre for the efficient production of mount intransmological substances in pure form which provide the function for today's most promising form of intransference.

Hybridener The product of the fusion of antibodies to career only to make positive use of the cancer cells unique ability to prointerate rapidly.

Immunotherapy. A new approach to treating cancer based on mobilizing the body's own mmane system *

Hough through prease releases he and NGC encouraged the reduct hoops that accomposed fee encouragement of he opportunity. The examin need to be published first in the scientific liserature, "he aspit a process free could cessly take a year in the meanture. Receiving his secret hoops, form, and more studieds. Johns Hoplans University In his own animal experiments, Pandot found that TVF was instluctive.

Other researches are concerned about the enormous publicity that has sumounded Rosenberg's experiments bocause they fair 7 will rese fiste hopes in desperate patients. "This a very high profile research achievy that Sove Rosenberg is numeric," says

Interleakine: Substances in the immune system capable if activiting the locky's own white blood cashs to destroy tweding organizme.

texpreses: Cancer-promoting substances manufacured by suffers which they attack themaelves to proteins and which direct them where to locate within the call.

Killer T cells: Also called cytosocc T cells, natural viter colls that need a signal to maliply during the menune response and attack cancer cells.

Lymphokavie: Specialized white blood cells that romally produce disease lighting antibodies

Lymphome. Cancer of the lymph system

Lymph system: A occurring system that contains the white blood colls of the immane system.

Melanomic A cancer that arises from derity (agmented colts, the most sericus form of elen cancer and the tantisel growing cancer in the world.

Metablasse: The aprending of canopr from one site to another in which small clurge of canopr outs dialodge and migrates to distant sites, mixating the circulatory system of the blood or syngin

Monoclonal antibody: Mono for "one" and clone for time of cola", highly selective biological molecules that affach to specific cells and proteins in the body and which can bo torgeted to specific cance antipens.

Orcogens: A gene that induces the cell in which it is, located to produce unsustity large ensured of one of ne normal potents or as astrulative an altered term of the protein. The in the final step in the geneers of concer-

Philiper A while that phoots backaria but not surrown Repertoire cloning: A rovel mathod of harvesting

Transforming Growth Factor-alpha (TGFa): A

Turnor-necroses factor (TNF): A normone that is a natural infer of concer cells

Turner-responsible for reacting cancer in the instance

Vaccines: Solutions still in the experimental stage that are intended to prevent recurrences of previously treated cancers but not to prevent the development of cancer in the destination.

> Act, expectations ran high. Yor today, 22 years later, we still don't know what offusion carrier or how to prevent it

Melanoma—the most serious form of site barroar and the fasted-growing cencer in the world—is increasing at such a mpid rate that it is expected to bootmit als common as breast cancer by the year 2000 An estimated 32,000 Americans, winn deamaged during 1993 along. The clearly rate from redetions is increasing at about 4 paragent a year, with at haid a 05-paraent increated over the pard len years. Fair of the reason for the astronomical increase may be the dipleter of the portective occene layer that well allow bright beerns of unterleard DNA-shrewling idtraviabit rays to seep into our atmosthere.

"Summers more caron many many a nanowi hashin promy in hisi, the govemmers alboarse mere movel to tight ABC that concern kind held a million Associate kind held a million Associate kind held 2000 keep starward by ABC and 1991 Without more advances in concer prevention, one out of weap three Arrangeans now allow with develop three Arrangeans now allow and and the arrangeans and the arrange

Those stark realities have load ongry cancer activates to form groups such as CAN ACT (Cancer Paperts Action Allance), a patient advocacy organization based on site committee in government regulations are depriving patient to di octentiali life-same greatments.

Costory, Nei most tertelle field for sigmicrostering and carbon experimental costs of the monopole-inn association and the signal costs of ensurements and the signal costs of performs and Costor costs or polymetric participation and costs of the metric record performance of the american interperimental costs of the metric costs of the signal costs of the metric costs of the signal costs of the signal costs of the metric costs of the signal costs of the signal costs of the signal costs of the signal beam such a metric beam signal and the signal costs of the signal signal costs of th

Immanology is the outing edge of cancer research the no-mains lined where daredevis like Stove Dependeng do not lear to thesi These scientists and engaged in a case against acth other where they cometimes take shorts.ts to they to immer that all decoding the mainsage of the boarror profileration of only. At states is no fees than a gueanteed Noted Press as well as immorative to the holds or formation lake us the holds of children of takes on the holds of the main takes of the holds of the main takes of the holds of the main takes of the holds o

Bedicated in this end is a core group of international resourchers they all know each other—who penodtasty announce mays breakfithrough. One is working on a way to pump up our normal activities and why all take nets of carrow calls (they after in don't course them) and (by) of the or interorts carrow calls (they after in don't not active the second internation call call-to-terms to rease internative call call-to-terms to rease internative and call-to-terms to rease internative Inroughout the body in the United States, a resentat his worked out a way to throw a kind of molecular monkey wrench into the manic cell-growth works that characterize cance-to derupt the cance-development process.

This is where the war on carbor really takes place—in a tiny microscopic world of tumor cells, is let T cells, antibodies genes, and molecules Ultimately, the battle is lought and won or lost on the cellular level

ATTACK TRAINING T CELLS

Even as Recentery was promoting his geno-hengy experiments. Daw hascall was these weeks away from pubtibing a choicel mesong ink of animal research in the prestigious porthal 26ence. Working together with a barn of researchers at Johns Highens, he was able to not mean of their adamty cancer by using a new approach that may enable into exercise—the much-henelded amrune-system boostem—to live up to their percented performance.

Perdol took currer calls oblived from an acity-stage mouse-locky cencer and genetically engineered them to secrets large obses of a restard cellactivating othernical obtain technical of (LL4). Then the team inserted the gene that moles LL4 directly into the sumo-opti nucleus to avoid the basis developed material and avoid the indevelopment is repeated into the bioodrawam. We choose sure of the affected harmon and sam to inferent constraintence of lymphoimaters, Particel says. The los early to invert the model discover increase and amounts. 'Approximation of the traininterest save inflations increase and amounts.' Approximation of the trainterest save inflation to ince up to their promise. 'All these years, they have been used the wrong way.' The same

Can Protect Turnales file surversi depenetros ta Turnaris "Therefore To Excentical seases why not." The says "To control assess why not." The says "To openetros the sease of the same sease of the mann. Prive seases the same sease of the there are more the turnary of the same sease there are the same seases the same sease of the tage of the same sease the same sease of the tage of the same sease the same sease of the tage of the same sease the same sease of the tage of the same sease of the same seases of the tage of the same sease of the same sease of the tage of the same sease of the tage of tage o

The innovative treatment empowers the tumor cell to procluce interieuriere that attack train' cytotoco T cells so



had they can recognize lattice transform called anging the basegin invador displayed on the surface of the basegin state of the surface of the calls are so discriminating that hay can displayed between normal and clarance calls anithin and Those based to surface calls anything throughout the bloodstraam searching and clarance regis.

This is critical when causes only approximately and migrate bias damps don't discouple and migrate bias damps don't show the processing of the second second

THE FIRST ALL-HUMAN MONOCLO NAL ANTEODY

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Bit ambacies can be travelowed or to something out and starsing through the lactioning of backgreening. By our could be more with for equilibrius could be backgreening by the lactice of ambackgreening by any analysis of the lactic and the stars and the lactic and the lactic and the lactic and the lactic and the category and products a product backgreening the lactic and the lactic and lactic tiquiar cancer atégen

Knowe as a monoclonal ambody (mano for "one" and clone for "line of ones") like guided missiles they have in on one type of larget. Once within telling distance, these monomismanial prodiers activate netural killer cells or a for aign foom. Both skalegaes are arred at destowing diseased cells.

In the 1970s, monoclonal ambodies were hanked as the "mage bulker" or cancer through as well as other diseases in fact, the discovery of monoclorabit in 1975 was awarded a Nobel Pitce Monoclonals it was anticipated, would be used to degroups, treat, and hopefully ours disease.

But in prestrice application, they proved disappointing. A mage data back was the newtable human immune spletm rejection of the mouse monocolnate space and later they would be logget of as involves with their floor-

The most fertie field for significant advances against cancer is immunology an area that is as tantalizing as it is elusiva ?

peutic powers so compromised, these monoclonals curckly fell into democrate

During the past few years: meeorroim at a narker of laborazine, including Sompti Diris and the National Conopt Institute, have been using sophisticalled broams representation of the source frequency of animal antibiotates as frequent more like human antibootas the new versione periode labe powerablication beams, the most officiale menantipolities.

8. We proceed the scheduler and the spectred burk and the scheduler to dewhole the first off human vectors by going that engineering. A protocolar was sequence, and telfana, one of the elevalted propose feasions to man we selectall. If we operanet proved successdue to a walk on the set of the elevant of a million enforce for the vector Moterwer, it would point the way toward a concert behavior.

When Person was injected with the tetanus toen, his body's immune svaIntri waa pilled into antaesing an army of toon targeting ambodes. Awaokilaewith his lookgee stmutuly at a now peak, hersion donased a datage of antibody-metiong withis blood costs for sorence. The Scripps team evizacted have DNA, accleded the genes that code to teams ambodies and ampoted their housands of trees.

These games were than planted into a phage, a wust that infects genes, not humans invative that indowe of antibody and wust genes was furnabilited into a wardenze-clower bacetox that matilade sach game for one of a work servilade sach game for one of a work servilade sach game for one of a work servilade sach game for all other services and all second services and services and back second services and second services back second se

This involutionary way of collecting antibulent no localization and the second Localization and the second localization and the Localization panels. Recent second local humband million panels, Recent second local humband million panels. Recent second local humband million panels, Recent second local humband million panels, Recent second local and million panels. Recent second local and million panels, Recent second local and the second local humband and local humband local humband and local humband local humband and local humband and local humband local humband and local humband and local humband local humband and local humband and

New the human reconcional reads the be adopted to connore it, theil the object to conclust assumption of the object to conclust assumption of the object of backet by the even wypert tensure symtem. This right antibody can way spechickly larged cancer cells for destruction while approximation only for destruction while approximation on a statistical and part of the object of the object of the provided of the object of

THE DOUBLE-WHAMMY BISPECIFIC ANTIBODY

A read don't immunobenagy with any operation double-wintering' antibody applied lates the hower of the monociotal attacky in stands the monociotal attacky in stands the table to many per molecule or cyclober coll. The double-wintering under late a Versa tytug both has instanded here server areread to an explanation of the server of any operation of the server and per molecule or cyclober coll. The double-wintering under late a Versa tytug both has instanded here server and the server and the server and pack literally by brogging larged and mediatar prin detainst contain.

The bispectic antibody binds to a particular molecule that initiates the isiting, i ovje Michael W Ilanger, charmest all microbiology at Darimstith Metical School and colouration of Medianest and the School and Colouration of Medianest and the school of amor color to attach and the school of amor color to attach and the color color that to color one attach there by broatcasting that acts to at livitin color to the body to hay to rest all tamps calls whereas they must be located.

The double-wharmy has proved its effectiveness almsdy in train cancer. Among 20 patients with malignent tumors trashed in Japan 70 percent are upmore lines were varies after table to percent are tables were reproducing to their trains only 33 percent who reconved activatad onlise wethout the armbody were tump-free after the same percend of times.

In the part and barries inspection and theorems have been used agained temphones and central concerns with the barries and central temperatures and barries and the second second second teamber with outper, chernolossing or that atom is says. Funger 1 They control to play when patients go not over anticodem may be enough to concerninby care the patient. There is a poor of the we will be atter to improve the outper barries and the second to barries.

TOKIN-TOTING TOPPEDDES

To the to this construction of the second se

The system connective being stacked for possible data drives in mine patients with end-etage blocker once: connected is potent bacterial to in coupled threadourned and the stacker and threadourned and the stacker and (TGHS) sufficient of the stacker and stacker receptions like citik animennias bactor reception. Nils citik animennias band to the wavelength of the income in transformative factor animation.

"Till a cell hea a marker it's possible to design a tokin camping pockage spechel for those cells," says ihn Pesha, chel of the Laboratory of Molecular Bology at NCT in more, this cell-killing Bson protein has been abown to be mahee against brain, prostate, and epidemed paroners.

We start with a town that even in low doses is a powerful cell willing open! explains Pasten. "It bands to the cell sutable, and then it enters and destroys the cell by blocking its abiity to make protein—at which point the cell empty table apart and des."

Are the toen-toting torpectoes a treatment or ourse? "Hopefully is cure," says Pastan "Right now we're interested in their potential in solid turnors, as well as tymphomas and teuternias."

PISTOL-PACKING NATURAL GANCER-FIGHTING FOODS

There are a second to the second seco

GAny effective "cure" as opposed to a treatment must seek out, recognize, and destroy at cancer cells wherever they may be lurking \$

and cablings, which also provement (B) (B) percent of scene harrow in misses soy appaged cancers harrow in misses for appaged cancers in most solveen produots which are indexid with the reduction of serveral types of cancers in Appart, bort of serveral types of cancers in Appart, toppool (and/opparted), which integrates toppool (and/opparted), which integrates toppool (and/opparted), which is an appart ever detected.

Chereprevention could may be in thy partors inducion in acutor and in Werking F. Alakova of two Discourses of the werking of the Alacova of two Discourses of the werking the Alacova of two Discourses of the acutor of the Alacova of two Discourses of the acutor of the Alacova of two Discourses of the acutor of the Alacova of two Discourses of the acutor of the Alacova of the Alacova courses of the Alacova of "There is no reason to believe this would not be effective against other kinds of cancer," says reason for Mutan or chiel N Gould, professor of human on colocy at the University of Wappenan

These close chemisprevention occubing ownoff in the case of change-peet of and owned concer, the hypothesis in the D-importer distribution of the concercells adulty to modify change peet of growth. The lamber manufacture subtimetes called accounts of an arachthemasilways to certain proteins and themasilways to certain proteins and the cell. Development detects a group of proteins to the cell memotime. In process D-importer with the

"Now were trying to figure out which one is the key protein." says Gould. "Two can inhibit the kingpin tumors may regress completely in an even larger pirecentage of annual."

Change peet of from a bitter Motionrearism outrige, not available in the united Batter, may also poster people the second second second second second to be the second second second second bits and the second second second pei wave gives other a tabolard out or single-peet-of compound. These who used the forther tabolard second thread by the bits and second second thread by the bits and the bits of these who used battering to be the bits who are performed as a second thread by the performance thread by the performance and the second battering the thread battering the second second thread by the performance and the second tabolard battering the tabolard battering the tabolard battering the tabolard battering tabolard tabola

Does this mean has early the molof carryins will product you from cansel? Theoreticable, but Guide pomis cuir, if whole much the researchance to least it whole much the researchance of the service of the second of carrying every day to achieve the frequencies of the service you could, the consumption of their many would acquire forcers gathoritoslinel productions. Before to wall for unfortioning and the contending to wall for unfortioning and the contended to wall for unforgoes will.

THE ONGOING BATTLE

In the not-load-datatet future, it may be possible to out-on-not samply troutcanoer patients with a simple rejudice. Then a diagnosis of melanoma would not carry the terminal sentence it does today A patient would inmply go to his on her physical, neowin a some of isjections, and the tumors would almost magnatify variant.

Afready accreting very smaller has happened at Stanford University in Caldoma where nime B-call layershore pabers have been threated over six months with spectration of wherepautic months updates and the second from each paterts own cancer (U-call partphones a cancer of the white blood cells in the months with each parts. The American Cancer Booly's description with the server protect Boolies of the server water as the server protect. Boolies of the server pro-maps the server protect. Boolies of the server pro-maps the server protect measures of the the concertainty of the server and the server of the server setuction server the server of the server server protect of the server of the server setuction of the server of the server setuctions of the server of the server setuction of the server setuction of the server of the server setuction of the server setuction of the server of the server setuction of the server setuction of the server of the server setuction of the server setuction of the server of the server setuction of the server setuction of the server setuction of the server of the server setuction of the server setuction

fit," the ACS explains in a booklet for cancer patients.

 INCONVENTIONAL CARACTER BEALT DECEMBER HOUSE HOU

covered that the Madagascar periwride killed cancer onls. Today, leading cancer patters are widely enthusantia about taxos, a product of the Papero yow tree.

The legarge of in Last of Legarowin Theremos conways the detroit expansion that the Canoe Socially has costally also do add Interacter bischer winnig 14 of a worthload. But is that the oare? Railpr W Moor, we thin of The Canoy indusity points allo do of all of proven treatments on which footnweight for all all as canned out by the ASS is any offen early before the instruction will walk wide bis over early before the matter assembler wide bis over nearly.

Even manatream researchers now admit that the War on Cancer, declared by Preadent Noor in 1971, 30 percent day of a state managements of the text. terms of actually outing dancer chemotherapy selling to hake matched a deap end. Inseferon, the grant base of the 158bs, dol not gran cart. Today there relabaid over annunctivegers in the actual, the result, of which may be one ded in the next danced care. But has may be a number of backgrant.

The following are some diversitive training that show premise. While no one could readenably blant that min of them is bank, we have tried to assed remobles with from toking's and minimal side effects, in some cases, mixed statistics are shin on lacked, given that the diffusit to prefam propriodicide oppormatis in an elementary offers extrant where optimits

> suffer term many, different types of cencies and many en terms of the term many of the terms of the end of the terms of the many of the terms of the many of the terms of the terms of the terms of the many of the terms of the many of the terms of the many of the terms of terms of the terms of terms of the terms of the terms of terms of the terms of terms of the terms of terms of terms of terms of terms of terms of the terms of terms

youre deallog

with the mainstream or alternative inedicine. Its ofways is good idea to thoroughly investigate any treatment before embarking on 4.

CARVINGER, is second, like according detent to in the second se man patients

Since 1981, Carmona, an extract of the mest-eating Versus Typap ninot / Ooners muscipula) has been used on mar 2000 nations allocarty polyclan ler's native Germany, it's reportedly show conditions. In an initial clinical study of 210 dwoo noticote with a variety of consuccessful champherapy or radiation. mission. Carrivora is administered by sis of an extensive immune profile

Postlach B. Lobensteiner Strasse 3, D. 8646 Norchalbert, Germany, phone

HYORAZINE SULFATE. Developed in 1958 by Dr. Joseph Gold of the Symruna Carper Beneasts kolto to in Buta cupe. New York, hydrozine sullate is a prominent example of a new breed of ing cancer calls with poison, but by internating the insidious process wherepanes of the host body. To grow, macreat tumors use glappee as ther fuel. durno the waste product, looks and, m to the bloodstream. The body requires ever nonessang energy to reconvert the lactic and into photone and the result is cacheon, the severe emociation sulfate, a cheep retd widely available industrial chamical reportedly stops id into glucose. By depriving cancer cells of their food, hydrazone raifole free

The relationship between historiane suitate and the pancer astablehment no from wild acths minor to cutrabil caredamentation. Early clinical shother yield. Collocate transar showed momenmore about humazine autates whilet

Synacuse Cancer Research Institute. Swarsson, New York 19202

714-X is the branchild of Gaston here isologist with beed to verify onedentals who now reades in Quebeo. In 1989 Inn and his cancer therapy be- , lating the brain a cricaidian "block" m-ID CARA

tarre a cause célèbre in Sherbrooke. Guebec, 30 m iss from the Vermont box the most serious being "contributing to him not quily

The response behand 714-X is a be convoluted Some years ago, Naessens, a reclusive genus type, invented Peering into a newly revealed mefized somafide (or 'tiny bodies') Cultide, but when an organism is extracted ical polition's that weakers the entrance system the someon's on min paylet up.

6The making natural remedies sound as if they were vestiges of a prescientific. modificant unrelid upour

Newsons ultimately leading to cancer. AIDS, or other departmention demana to share up the menune realism shill be

the farst of heart, an it requires cluby pol-As is often the case with element we treat has sawed hundheds of cancer patients

5270 Fortame, Rock Forest, Quebeo Canada J1N 386 (819) 564-7883 MELATONN This if the understood hormore is produced by the brain's pernal pland (Students of matteriast) may size of the vestigal "third eve." Perhaps anowni vodi adepte knew what this were dono when they connectrated their inward gaze here) Besides rectay hoosts mmunite-and steadly do close with non-White long why researchactuality and identified properties. other adentisite concentrate on its anti-

David Black, M.D., Ph.D., of the Uniwraty of Anzona Collega of Medicine ty to inhibit several types of human tubreast cargos, melalonin alminic their bcently substituted melatoran for estro-B-Oval And guoss what? In texts on broast cancer, maximable by supressmay be a "critical starting port" for a that mailatorer's low toxicity makes it worth investigation

Access: Preal-plend supplements, marketed on fitness Guard and avoid bie from Alergy Research Group, 400 Prarta Strate, Sen Lespeiro, Colifornia

SHARK OIL and SHARK CARTLAGE Ever wonder why shares rootly got canconditional the family of large has at east two things going for it, shark-liver There is an of a strength the best cal-

und sources of allowyphycerofs, natural for survival rates than patients who did los sudation began thereby rendering tudiation more effective

ton delicacy, sherk fit soup (or, if you ponies, shark califabe capel(es). The hitbling angiogenesis, the development of twy blood versels, or capilargrowth and metastasias. According to studies at several Boston hospitals as tumors require angiogenesis to once here yond about two milmeters, and withtastese probebly carnot occur. Sherk cartilate a housing times roher in andogenesis inhibitors than certilege from colvers, has been found to slow the growth of tumors in animals and humans. In Japan, staried in soup has long been considered a He optimized tem: New some allomative physicians are incorporating cartilage capsular m to cancer patients' programme.

Accesse Desp-sea, shark-liver of (opasher) oparies, calido Meyam, are detributed by Japan Health Procettinge capsales, calidorna 01331. Sharkcartidge capsales, calied Carthoda, are avaitable more Alwarg. Neural chicatillories Belti?, 18001 782,4774, or from Dimension Ecologics, 14. Newtown Hoad, Action, Mastachusettis 0.1720, 19001 655-4432.

EBSIAC Arrience purported cancer corrus, Essais has an entrain recentive mystague, in part because of its argument in an oble Gravitati Indian recesso III 1952; a Canadian russe by Pha nume of phes Casses beat Indian recesso III 1952; a Canadian russe by Pha nume of phes Casses beat Indian russes to Pha nume or was tabled by an Ostave Indian Casses teached doces resetta basis works, and used in to India Casses Indian Casses Indian doce and III 1978. Die nument if Essais Casses resetta basis works, and used in to India Casses Indian Resetu ou cab face datin in 1978. Die rackading numy who had basis works.

About in the Designed Researching the statuice calls for burdock, slippery eim, serrel, and turkey (Indian) rhuberb. In 1991 Lamonary president chiefte aned "considerable antitumor activity" in burdock, which also appears in the Hoosey herbal formula. Japanese reterrand a substance that and control cell matabon. Burkey Huberts, another herb in the formula, demonstrated arkitumor optests in connel tests. Becorris Corrisration purchased the rights to Essaic from Cristee and reported that the rewith of antipreside testing with 250 oftesicians turned up "extremely encountiging mydence" of turnor regrossion Completeours say that the Essant formula must be exactly right to work and want the buyer to howers of anything

Access Canadiam physicens of machine Access Canadiam physicens (are go through legal channels to obtain Esian By contacting the Hoath Photechion Branch, Food and Drug, in Ohwas, Orhero, Caenadi, they can make antingoments to buy the product from the Reperts Corporation Otherwase, Essata cae be extended trom BL Jude Informational Carico, Jimmy Koller, Administration (Dirico State), Tiguran, Mostion, phone UT-3606 64733

MISTLETCE (Holixor, Iscador). It was

sucret to the secant Dradie, and to years, the European mission (Nexam abare) has been a maintaily of this Loake Kheik In Arialaham Secantinical instala secantaecusy (and occasionaly taken carbid, mistake installah boost the immune system and trantoms cancer cells into neural cells. (Den't by the with Amancan mistetee. I casen't have the same powerker)

Publicing in response involute journal, and, sowerd laws of Garman observation, and the second metal and another second second second metal and another the second second second metal and another the second second

And here's another cancer-prevention delicacy: shark-fin soup -- considered a life-extension tonic in Jäpan. Or if you prefer, try shark-cartilogo capsules.

Instated centrels J. According to A with every of packates which a limit, and thuman shades, mattetes is writiging pacpound is leaves, polyanichanissis, and polyanetake kills cancer cells attractby the shades and a nonspecific intrause residen within the had organisme. Unlike stational cells-otherscharts, the subsance tills cencer cells without dimsance tills cencer cells without enging leavily one, according to the roawardines. Maybe the Dirusts know with the wave data.

Be solvered that locadar still apprents on the Society's black list. The ACS does concode, however, this awand animal and in vitro studies of Isoador have revealed cytotoxic (cancer-cellkilling) and ennum-enhancing effects.

Access Contact Heixor Heimittel GmbH & Company, Hofgst Pischermchia, 7463 Rosenfeld 1 Germany, shore 011-49-07/292-2910

GEPMANUM is socially a rate chemicel element, atomic number 32, itomic weight 72.6, discovered by Germen chemist General Wriker in 1986. In the 1940a, a Jacamese chemist tested many germanium compounds for biological activity and carrie up with Ge-132, or bis-carboxyethyl germanium sesquiloxido, a stabilite, weter-abilibita, nombase form of organic germanium.

Community is and to printerim memy benerostate promotion for the protocol proceeding in a protocol protocol proceeding to community of the protocol of the apparent shelly to committee to the scale of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state of the second state state of the second state state of the second state of the second state of the second state state of the second state of the second state of the second state state of the second state of the second state of the second state state of the second state of the second state of the second state of the second state state of the second state of the second

Accusal Contact Nergy Research Group, 400 Motes Her, Sin Lauranto, Californa (1997), 1000 783-4974. Mercine Contact Contact Nergy Mercine Contact Contact Nergy Mercine Contact Nergy International C

In the Tom of a postal tailed when Mugo, post-pio environment are a principal treatment at the Jantes Kinnis II Bans, Germany, which has schward an impressive outre lab by combining agroupse, short tem chemotherspy and radiation with nativation combining agroupse, short tem chemotherspy and radiation with nativation compared and the schward and the and the schward

Accesse Parcenatic encyred, as well as an junt encyres, an earlishis from with timm and supplement companie. WIMMN C, if ways, is to encore employ that is an encyre that an encyre and the interface of the second second second second data more than a second a condition with a bit bit ham an a conditia condimedigata. Dr. Bishop Block model field within the limit, hand secold and where conference, the second second second constant the limit, harmonic will be enclosed and the limit, harmonic cons of the limit, harmonic portrates, blandski, clanil, indianation and longal. It is believed the enclosed and the limit bread in second secon

In early clinical trais in Scotland, be-

ver by the mess tent one of my younger nurses is standing close to a Special Forces ieutenant. I watch her face tip up to his, her ves wide and shining, moonlight on her reekbones. He reaches out one hand-his opermails are not guite clean-and touches er hmen har where it falls mer her shoulder, and e light on her skin trembles. I know that later toright they will disappear into her tent, or his, Later this weak they will walk around the compound with their arms around each other's weists, sit across from each other at mote, and feed each other choice bits of chow oblivious to the amused clances of their friends ater this month-or next month, or the one after that, if this bizame duty goes on long enoughshe will be pale and distraught, crumpling letters in one hand; She will giv in the supply tent. She will tell the other nurses that he fed her lies She will not hear orders, or will carry them out red

eyed and wrong, endangering other lives and despising her own She will be useless to me, and I will have to tracsler bet nut and start over with another Or maybe it won't happen that way. An alternate future: He will snap at his buddles, volunteer for extra duty near the Hole, become careless with some red- or homespun-coated soldier stumbling forward with a musicit or bayonet. He'll kill somebody them, why do they porsist in behaving some other or jess likely-out killed timsell. Or maybe he'll just shap at the wrong person-his captain, say. He is be transferred out. If he kills an Arrival, General Robinson will nerequisity prucify him: General Reference wile and doughters are members of the DAR

see it this way. They like the same movies, were snubbed by the same people in high school, voted the same way in the last presidential election Both watercored for duty by the Hole. It follows that they're in love. It follows that they understand each other, can see to the bottoms of each other's souls. The other military couples they know-the ones who have divorced, or who haven't the alleirs on leaves the anney words on the parade pround at down-baws packing to do with tham. They are different. They are unique

When people can see the truth so plain around reality?

Major Petersi You're needed in Recovery' Ouick!" I leave my tent and tear across the compound at a deald run. We have only three people in Becovery: one of the weird laws of the Holo scores to be that The two nearlie by the mess tent, of course, don't ... they seldom come through it if they're going to recover. Musket talk in the bely or heart, shall evolvsions that have from off half a heard. Fighteethme percent of the Arrivals are dead a lew minutes after they tell through the Hole. Another 11 percent live

The horrors of war are difficult to face, even for a noncombatant nurse. How much

Fiction By Nancy Kress

harder when there are two battles—one on the field, and one in your heart?

know but rever regain consciousness. That leaves us with 6 percent who manhalis tak although not to up Alter we repair the flesh and boost the immore matern the Array sends berafy where eise The Protapor? We are: lold. Somewhere there are three aciorade officer under Lord Percy, and a taiking to the best minds the country

This time I want to talk feat

is a gruzzled veterian who carrie through dressed in broeches, boots, or side of the Hole. The Battle of Long Island was fought on August 27, 1776. Links most denote this can stronged through the Hole without has rife or bay- cost altouch he had a husting koto. received a head wound, most likely a alacene abell kaoment, more skey a When I burst into Becovery, bein citizen up, denved, looking at the guards at the

The General and Dr. Bechtel are on approximatoly into 1 sorid a soldier walk-My phone searce to be reality to reality The soldier is walking very slowly

"General Putnam?" the new Arrival cubir twirt on almost-British English that soll south a chill through me all

"Winte you with the Connecticut

"A marged" That approve to firmsh the claze, he looks at my stations than my fame When the Mole first onemed there was wild talk of putting the medical staff in Colornal dross -- "To minimizacould minimize dword booked to machines you couldn't imagine in a place that didn't used while beens shuck with neoclas by neocle unition for another anaast my bearl from a shower, my obstate thick over my own

"Yos, a runse. This is a hospital Let me have your wost please

He pulls his hand away 1 grab his have attacked triace personnel and one attacked a Pacovery mand. the ackler looks strong enough for both But I , lape, with surken black even, a

served in the minor action in Kuwaii and the major ones in Colombia. He lets me held his word life rules a most but

What is this place?"

"I add any A howaha"

He leans forward and clutches my arm with his free band while I'm mathing for the medican equatment. "The battle---who woo the hattle?

They've offert like this. They foot themsolving in an alum, impossible, unimpoinable place, surrounded by quards with uniforms and weapons they don't they left baland. They ask egen and again They have to know what happened

We aven't aupposed to tell Arrivals any this is more than a few days into thoir future. That is official policy. Not until the

We're not supposed to tell Arrivals directly medical. No hint that this is more than a few days into their future Those are my orders.?

Military Intelligence experts are finished with whatever they do, wherever they sared inell that the solder, the Hole stsell is not some hannest plot Astrone "not crashford for this schuntzen" (Who

But he hear't asked for very much future. The Platfie of Long Island was over in less than 24 hours. And L of all peothe, an not capable of doments arrange

"The Colotasts lost Washington m Yostarl."

"AMPHONOM " He lets it out offerorup, lethol case worked cuit 3,000 men in an hour I don't look deactly at

"You were hit in the heart" I say "Not bache"

cers the bandage. Full his even never

horked note, broken levels, and a beard coming in red, not gray. He It's not a modern face, today the Army would fix the heath and shave the

"And the General? Put survived the hatfe?

"Monteche And the war? How goos the war?

I have said far too much already. The soldier sets straight on her bed, his timos mes blazion. Rebed us I how the door open and the guards snap in to saluta in those Colonial eyes is a need to know that has nothing in it of ing it's a demand for a right as we to day means demend a search wastant, or a lawer or a hall by save-all bridge where mestance once depended on what this solcker wants to know He states at the and I lead in him on elemental power as if the need to know is as basic as the need for water, or an

"Home cools the way Metropy?"

Footsleps hurry toward up.

I can't look away from the soldier's what he's asiona, or of whom My mouth forms the words works works on-

"You wan England autrendered in Op-

fomething moves behind those black even, something so strong 1 draw back a inter they're on us, General Robinson first and behind him cheel of medical staft, Colored Dr. Wil-Jum Bachtel, My lather, who has denied

I have never stood by the mass tort with a young solder. If you per the Army at 20, right out of maning actual. and you stay in it for mineleen years. and you preen where a risk or makinup. soldiers come to ask 1 know the attowar Fam not horneystell. Nettwo an have never wanted to feel arwone's treach can my hear in the moundable

known the Learner are of hear services. Furgeen Command in Statuart would have contread on my way knows that Banhiel is my fully. Or meabe he does The Army knows everytions among the theory it knows But insured upday fire in the orthop Army. Dt match my nuises with any others, any where I myself have performed operations alongaids the doctors. In Bogota, when there were five doctors for finue hundred mangled and schattering selders i never see my father outside the OFI

The new Arreal is name is Sergioni Eshand Strokland of the Connection Third Regression No modern as parmitted in the Hala conceptual which used to be Prospect Ref. In Blooklyn, but officers are issued clumb serminals inclusion tech history derinitients: By thes time we all knows a lost about the databaof Long Island, which a year ago most of us had new heart of

Strebland visios too mentane to the deares, in a 17% letter to have will, General larael Putrem presend Strukiands "between and transported" in addending the Brookym Harpits entrendsmerts: A year later. Brooking to the tightmerts: A year later. Brooking to the tighting around Predictif. A sone Putrem Snekkerd becarria at mambar of the Pennerskana. Logidature in 17M-

Wy father never had a son. The crimral charges against him neutiad in a tung usy, and the prosecutor chose not to refer but to refer the case to the filmly court of Deange County. After he was based by the judge from ever seeing me again. He level alress

In the attender, a Special Forces barnetized points a factor assumed and the Net During the first assumed and the Net During the first assumed assumed assumed assumed as the assumed assumed applicable for an attendater or regulate tachyons on invitative terror assumed as the terror of the Net and the terror of the Net and the terror of the Net terror as an attendance of the terror of the most of the Net when its terror most of the Net when its terror of the Net when its terror and terror as an attendance terror as an attendance terror of the terror of the Net as the terror of the most of the Net

And notice than the astaud latera given the local and the second lateral bar as divent and the second lateral bar as divent and second lateral lateral hand, and second lateral lateral hand, and second lateral lateral lateral diventity of the lateral particular diventity of the lateral lateral diventity of lateral lateral Burr a strategy for defeating leverity incusand British vaterans with live thousand half-traned recruits?

Haild numes are not considered to have a need to know these decisions.

When the assault beam reaches the shimmer—I have to aquel to asse it in the surfight—they stop. Each of the four sated fayors bands beam ing, but noting gress. Bookie fermaare trought out and armed at the shimmer. Noting, Afar ton merua. It has solders lumber back to the costmend burner.

The fourth stays I wouldn't have seen what he did accept that I tarn around as three finiths toldars tail through the hole form the other state. An interviewen flast, blood streaming from his mouth and rose, sonarritg, somering by the time I reach him he's dead The other has core through hem.

Another musket discharges. A fourth British solicitier has stumbled through the Hole and fired. The ball hits the young nurse in the chest \$

ly feet east, and iss I streighten up from bending over the infaitsymal, he blood snearing my unform. I see the Hole gasets leep forward. A musick dechanges, a sound more like in explosion than the total disect of our preois that the del. The galande jump the other two redocts.

Beside minipation between the device that, i see the association bedrearts for which saw it as undergood to front of the sub-and near the rescher mode and patie out sementing that address the samlight if neogenee it. Edward Bhokkinds harding form, the lobe it grantly between the Hole. It cuts through the shermer as casely is not builter and despersors

"Mean Mean" One of my young numes runs toward me. For the second time Longel up from the English soldier's body.

Another musket discharges A fourth Britel solder an officer, his starbed through the Hole and fisci. The bell hits the young nurse in the chest, and dhe straggers backward and faile in a spray of blood past ties the visia-taidel of assault rifles barks in the hot sin

Were in CR all inferrorial interk data: the only assess they worth paid to main it evening My notates, LL May ingriram disks: The Drittle mage who Maked her data. The Drittle mage who Maked her data. The Drittle mage who Maked her data. The infertityman area already data. The one of the original match and already already already which coals and grows. The costlates infertity all incodeds

I am just lensing at the dumb terms nai when the aide comes for me. The wert even abweeted after CR, just nmoved my soluble. The borrinel concerage, JOHN EPRCY HEALY THIRD BON OF VISCOUNT SHERINGHAM, WITH TWENTY-THIRD FOOT. TREI. JUST PRIOR TO CORPORATILE SUIT-REINDER AT YORKTOWN see Survivo Revenae

Major Pecers? The General works to see you in his cushfers ma'am "

1781. Five years after the Baste of Long Island

"Matern? He send right away, ma'arn." What bette had Captern Healty been fighting on his side of the Hole?

"Yes, soleter " The screen goes blink After a moment, red letters appear ADOESS DENIED ALL PERSON-

General Relarisaria quarters are es bearts os tressit of the compand, a formade tarter estat of the compand, a gravgeneral common, investinet with loandard latate col deski locket, and somimil. He is made no of that et interpro concession, but on the deski stand pictures of his, with and it free duspitaris. They no all pictures withing, dessed up for company's wedding.

Bechiel is there

As itstand at attention in front of the two men (i) have a subden memory of a doil owned when I was a thild by the time line doil came to me from some one to single this frough which you wont to shringle this frough which you ben't by the site frough which you be the site of the site reach which is not be the site of the site of the line of the site of the site of the new substantion of the site of and have been My moder to its much line ark there were the site work the ark there were in a the doil a south on those be provided it up and camed it.











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	QP
FD Exclusion Th	e ced
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TTAL AND PLOT	

even extrem for a few dates. Autuation it book of 1 states have been in Minute of one peared acain at my father's trial d different familiarity. I think now that I ng put I don't remember what I Encucht then I was four years old

the dell 1 must know why I think of it table my mother took the doll many and zieci, knowing something had changed same doll-and yet it was not 1 looked sway and parrent as if the month be

The General store "Maay Peters, Son

"liss, sir." My shoulders are braced hard. Hook directly at the General and no one else. The General's tace is very

Were you aware of explicit orders information occupering these man's ke ture, under any circumstances?"

"Then are chil you checkey the or-

"I have no pood reason, ar "

"Then let a hear an uncond one Major

He's parce me every cherce to explan I separate if General Iscael Discours was less this with his most all of whom followed him with a fanalic dewhen even when his refliary clenisions. started to tave I'm opurt-merballed for new military automort after the classme with grave, observant even 1 mont. man have tood to access him if Booh tel hadio't hear there. Bertitel it memory uppl staff, of ocurse, and for a sudden. en (nhi)

ally arter I charchangeri perfersi. To met-

But I can't say all that out loud not

"No reason at all sir," I say, and was for my service of the basis of y the Army takes this gag order with Archocks. Use preset beard of ambody

The General shuttes some papers on his desk. There is a complication son something ease in his sysis beauties termente Haus turnus, "Sermeant Stack-I don't know what to say.

This is obviously on undesymble sit-

6Relief fils me like sunlight. No court-martial If I cooperate, the whole thing will be ounricoked-that's what the offer to keep my numing duties means 9

may eventually be held responsible. In distely to Colonel Orr and enance a contact with your other clubes. I will atranne to reheve you of those

Fished life me like surjicht. No court martial. El cooperate, the whole there will be reactionized ... that's what the offor to keep my tarrang dutes mouth. of this one sho any more than I do. Sizesecurity compound, along with the Repoktion Zoo, are hundreds of reastedthe better. No duty cases on former

"Yes, or There will be so portfart of

You longed prite the library system last runht."

"Yes, sk". Of course loc-ons would discovered shout the Brit cardon. The Army knows that I know they know I these reasons. Actions and makkutable, and preamy is support.

"Mhat did you learn about Cuntan Hugh/2

Longwer mynochately. "Fhat he must come from a different past on the ober side of the Hole A past in which events in the Routh non-were screet our

Potension node. The carefully controlled appear lades from his mens. I have pessied some test "You will say Stockland, Major, Arethend you tell herry

He's asking me to not do something the last person to other Strickland a doubtlui past "Certanty, ar

"My shall an again only faith in solutions. as Colonol Dry thinks appropriate "

'There will be no more promators in any communication in which you are in-

"Fine." Pobusson anys. He rises "Tm going for a week.

Wheel distance the General Borbiel secureted this 'walk' to low my belly crawls-Robinson Anows I

ble His youth a soft an arricles "Super-

No metter what the action decided ed the divorce so bad she was willing

This time there is no soft noise

She said you led " I say and mmechately am hances with mynell for new

test to my latter. In the stiffares of my alwarts still beets in the second. He save headly. "Dismosted | and | hear m the single word things I don't wast to

After the trial I rever touched the

My first interview with Sergeant Educated First Continental Army, takes place the next monerg. He is been moved from Recovery to associate barrier at the far end of the compound, although the eld has an elevated temperature and the next barrier of dyserier (barrier barrier). See in a standardissue hospital gown he disent took the a man forous time. Ris more than put the broken barls. This semithing unit broken in this size. He back as of asscovering is as foreign to him as polyother.

"Sergeant Strukkand," commands the Militry Intelepence expant Colonial Onr. Unision recording equipment whits quickly. Tell us all your movements for the last few days, starting with General Putram's forthcaston of the Bookyn Heights works.

Strickland has apparently decided he is not enhand in the Army He ignores the colorel and says directly to me, Where am I. Matrolis Numi?"

Orr mode, almost impercepticity. We ve rehearsed this much i easi. "You're in an Away hospital on Long le-

"What date be today?"

"Ukly 15, 2001

I can't tail if he believes me or not The tierce black eyes bore staadby whout binning. I say "What work did you do bottore you joined the Army, Sergear(7)"

- "I was a smith."
- "Where?
- Portiet, Correction, Medress

I the be the future, how come I to be here?"

We don't know Three months ago solders from the Battle of Long Island began to stumble into a city park out of then air Most of them deed. You don't "

He considers this this gave toxiels around the foremost burles to try gineres, to this M-18 held by the grand. Abruphy, he laught I see the moment he refused the idea of the future without accusity rejecting fi, like it min who mospies is heads, on a shead comer but puts runhis pocket unread, size these

He says, "What losses did we suffer at Loop Island?"

"A thousand dead, seven hundred taken presenter" Lanzwer and he finders

"And the energy?"

"Howe reported sety-one dead, swert b-rane messing."

"How did the energy beet up?"

"Surprised you with a flarking march down the Jamaca Roed, with a longe you couldn't possibility match." "How did Put retreat?"

"By water, across the over to New

It goes on like that, reliving military history 225 years dead. Six months ago, the classical I know none of it On doesn't interrupt ne. Popably to turit us 1 know that Stockard is learning to turit us 1 know that Stockland is learning to turit ina own paie, checking the details until the knows they're sound, constructing around hemself the solid world that must held this mustable ore

From the direction of the Hole commit the multiled sound of musiket fire

This time it's a Hospital, one of the metcency forces envirging the British under De Hentier in foot of the Hospital pase. Hos the first Hospital to Hospital through the Hos Stressmith in Gen parmen, his lights valuarity as the GH particities of the Hospital gave in the somed put through the Hospital gave in the overry the face is succluded in the unrabulat sloop of another to the some of the other and the other by the to be as the Stressmith and these the otherway in the tab gas Stressmith and the unrabulat sloop of another to the other bases.

This time it's a Hessian, one of the marcenary forces serving under De Heister at the Flatbush pass. He's the first Hessian to come through the Hole ?

Hossian mercenary is no more than 18. By our standards, a child.

Binkbard wells in accompanied by the MI colored and a very attentive MP. Are they synta to baid to study of perwide the syntax of the study of the well with the company of the the test when the company of the test when account wells the study of the account wells the study of the study of the metric out tarks had been able to pertails and Like well may of this Sergende Ser to prevention to many the at them to the study of the definition.

Stickland gazes at the Hessien "A boy to do their lighting for 'em." The rough voice is heavy with succesm

From De Heister s troops." I say to say something.

"Put aways traded on back"

"It must have been hard for them to go up far from their homes," the make on duty says toriatively. She has a high futlery voice Sitciliand looks at her with arous a model more surromano expression on that rough face than sercasm, and she fushes. He laughs

The German boy opens his eyes. His boury gaze falls on Strakkard, who again weats his own breeches and shirt and open with the strip of red cloth of a field sergeant sown onto the right straulider. The Hessian or probably in a list of pairs, but even so, his face brechters.

Man Felowsbeil We haben die schlact gewinnen, pr?

The Milling Intelligence colonel's eyes water. Structured terms to store. Our makes a quark gesture and the next muck both Structure and are being femty escarted out of Necovery. Structured shallow of the MP's arm and sures arguing to me.

What did he mean, Men Feloweber? And Wr haben die schlast gewinnen ?"

Tahaka my head "T don't speak Ger-

Shokland looks at eas a moment bing an, twing to see in tim billing the bruth Evidency he sees from my face that am We stare at each other in the sam gat, which works what the hole in Nappenning. On: emerges from Recovery long enclight to impa an outer at the MP who seconds Strickland back to his quarters

¹⁰ In the overlap advectors in flood the Clean man-Arctanoval indicionary is bought where in thought I was being went to subgraph makes of Bhoolyn II takes a boig base to track down spellings a to subgrapher i down them is being the advector in the subgraphic strates advector in the subgraphic strates advector in the subgraphic strates boog bases graphical memory as a lotter in the formits daw Central, a Hoo oak for formits daw Central, a Hoo oak for formits daw Central, a Hoo oak for formits daw Central, and Sectors for formits daw Central, and formits and the formits and the formits and the subgraphic sectors.

My sargean!' We won the battle

²² If yo 6 their aload eventhict that would have had to be different in the would have have had to be different in the would be infrared receives it of Hesse-Raset for the Obtivity plates instaad of to the Brotch 1 control to 10 if direct leave enough have down that a the final and the receiver and the set of the

Deserbon is always common

My mother was born in 1935, but she didn't groduate from college until 1989, All her life, which ended in a car crash, she kept the conviction of her adopted generation that there are only good holose herey settle inits formula and roution. See manched applicat the data legal and Dow Chormolal appared is capital start. appared whome Service settle and appared whome Service and application there is builded to strandard with a gonroution that televiced to trad approve over herey, that thirty these years old morely approvements and the here and the mans of the mass

Altry chickbool level-hower if loss supposed to be horms to charter by the GL or of 30 or at all intern to charter by the GL or of 30 or at all intern horms in the charter beaution of the second state of the second state of the second state of the chickbool state of the second state o

My instant is build in Darwskie, haw hits which uses with brink Darwskie, haw hits which uses with brink Darwskie haw hits was an about the brink base build in middle-again men is blin base build in middle-again men is blin base build brink brink brink brink base build brink brink brink brink have been about the brink brin

Capton Juhn Precy Heak of His Me, singh Newnight The focal is lept under slope quark Brackland could's pot enzywhere mars more, when it is lowers that Haway and his worker duta Bratho of Long Nathod coefficient for cam he options at the lower for the brack of the strategies of the strategies of the same the international when the treatwork that the work of the black of open the compact when the head in down the provide lase, authority A apart MP and me and sets of it at search lase into other the treated of the international design authority. As and lag that lose halo in the order of the site of compact and disappene that is set to contain and disappene that on the site of contains the site of the order of the site of contains the site of the order of the site of contains the site of the site of the order of the site of contains the site of the order of the site of contains the site of the site of the order of the site of contains the site of the site of the order of the site of contains the site of the site of the order of the site of contains the site of the site of the site of the order of the site of contains the site of the site

"Half" shouls Colonel On The parent of the Hole raise their wappres. The MP whose fault this escape is, saids to aim after Shokland, resizes he out topsaidby catch him, and cheed his out. Half: or we'll tet?"

They do Stackand goes dwir, hill in the lag. He drags himself toward the Hole on his elbows, his body threshing from side to side on the hand ground, a thin line of blood trickling behind. I can't see his face. The MP seathers him before I do and Strickland lights him hereally it searces.

Three more sold ons are on nem

The seen more direct combat nuring than any other surve five mot porsonally, but in OR I can't look at Stricklands eyes. If he hud reached the Hole, he obuid have gone through and the live only person in the room who known this. Not even Strickland known 4. He only acad as if he cad

Dr. Bechtel sends for me the next moning. He's the chief of modical staff. I go Survey, I think

"Major' or I would prefer to be called Major' Sr."

He closen't change expression. Mepri, I three it would be a good ideallyou requested a transfer to another unit."

The summer sun is slanting in long lines over the compound when Strickland breaks away and sets off at a dead run toward the Hote ?

I chaw a deep breath "Are you ro lating me out or?"

Teal: For a second some emotion broads incuchi-angro? Hea? gui?pand then is gone. The suggesting you voluntarily apply for a handler Youre not doing your cancer any good here, with Stackland, not the way things have tured out. There are too many anomales. The Army destril tike anomales. Maar

The onthe Hole is an anomaly Sir 1 He permits himself is thin amile True enough And the Army doasn't title it?

"I clon't want to transfer "

He tasks at me cincets: "Wy net?" Tenter not to a: "I say, is a nonanaver answer an anomaly? I can test aver any taskon in ny body straining taskat the door And yet these to a homber canaon; too, mataning at her like tha Somewhere in my mind a four-yeer-old gui touches a one-yeet dod in a raveled ratio than. Here He toucher her here. And here. But det her?

The four year-old doesn't answer

Sincklend is asking to see you 'ne says wearly. No-clemanding to see you. Somewhore he area Head's unrorm Being carried across the parade goand from the clearing machine, may be---I don't show He wort say."

I picture Healy's heavy watch cost, his sid uniform with the regimental epaulets on both shoulders, his crimition with.

"Strakland's smart." Easy slowly and immediately regret it. I'm participating in the conversation as if it were normal i don't want to give him that.

Levels want to paid into their. Levels want to paid into their singels, "This typical cut that them are mainple treatact beyond the Hain May empirish that the typical cut that them are arrange of the typical cut that them are arrange of the typical cut that the typical base. I Gott More 'the parages a an unknochold memory thermicry and and my Doddy at the other their table, tabmg and passing a head through the typical passing a head through the typical passing a head through the based on the typical based of the typical based on the typical ba

Sincident?

Yes, of course, that's who we've been taking about " He poors at mo 1 give her nothing, wooden taxed. Abruptto he save, "famin- sek for a transfer."

No. se, I say "Not unless that's an order."

We stand at opposite ends of the bunket, and the air chimmers between us

"Demosed' he anys quiety Isabile and have but as I reach the close he thes ense more." I reach the you don't see Strickland again. No matter what he desearch For the sake of your own carnet."

Recommendation noted, sir," I say, without influction

Details, the right is total and still have toolde toeffined the softled as 1 by to think what could have people along tables assidian concerns with my carsist but no matter have 1 bok at 4, 1 out toe any advertised as them is have out toe any advertised as them is the myself. The advertised as them is the myself. The advertised as the Bruckhyn 200, an elephant below, as if an pain

The next day the Hola closes

I'm not there at the time -----0715 hours EDT---but one of the guards results the story in the mess tent. There was this faint pop like a ket's toy gun Yoder hit the det and presed his parts-------

'I did not' Fuck you?' Yoder yells, and there are some good-salared msuits and pointess shoving before anybody can overhear what actually did happen



"This liftle pop, and the shimmer kinkle deeppeared and that was it Special Forces showed up and they pouldn't get m---

When could they ever?" someone error elyty, a forsale voice, and there are aughter and nuclose

And that was it. The Hole went byebye, the guard says, reclaiming group eternion

"So whon do we go home?"

"When the Army lucking says you do "

They move Bitckland cut the next day 1 defit one him. No one necessari to alla so find the Name of A some perit Binolating docated that the has to all the next source of the source of the binole chinaro maintain at a discuss that next peckel 1 wave to be lead to all when to avoid the Hole. All I wave when to all we have minimum their y elements that to any or may not be toul for a place and time that be and there again.

Curously enough, it is the Brit Major John Haaly to whom we make a difference

He is with us a week before they move him, recovering from the injuries. The broken log cots clean. Millary intall gence, in the form of Colond On, good in and cut of his heavily guarded burieur several times a day. On is newer three while I'm changing Heavy a deexings or monitoring his vitals, but Heavy a sepresary throughtshafer Orhats left. He watches ma with a bemused expression, as if he wanders what life timesog

He's notiong like Bit cidand. Sagin, lar, not sell with regular features and tredi-cidand sin. Haaja na genech is precase and formal, opunicous, yet with a modeling galety in it. Even here, which solerns tomic a land of massice. Here, which solerns tomic a land of massice. Here, here below about his divers, and a releasy orderly inclusive literative logic boots

Between detendings, Hway needs Israel before 17%, but maybe riskin all Israel before 17%, but maybe riskin all here of the second second second second here is the second second second second men second men second s

I refuse to be drawn into conversation with him

On the day they're going to move him, Bechtol does a complete medical I assist Naked, with electrocies atsected to his head and valis of blood drawn free his irm. Heaty suddenly becomes unstoppably tailsative.

"In London, the physicians make use of keednes to accomplish your ident call arrs."

Bechtel smiles brefly

"In my London, that is Not in yours. There is a London here, I presume, Doolor?"

"Yes." Bechtel says. "Thorn m."

Then there cost two. But there's estier mote, len't there? One for the Heasan One for that Cobrief who attemptate escape back finduation in the time comdor Probably others, is that not so?"

Probably," Boohtpl says. He studies the EKG printeur.

And in some of these Londons, we put down the Robelion, and in others, you Chiomate success in declang your, tell a sownegn hador, and pertraps in still often the stratege dostroy you all and the Robelion mean occurs. Here I understood the situation correct-W?

Yas.' Bechtel says. He looks at the Brit now and I am caught by the look as well—by its unexpected compassion.

The wal of blood in my hand seeme continues of mos at 22 Consider, briefly, Wiliam Coltry's resume During World War I. he served with the CGS as a Jaclourgh team loader, perachysing into accupied Acremy and France

In the Fiftes-by free at career officer in the Office of Posey Coordination of the fedging Central Intellgence Agency-he conducted opart operations in Sweden and Table in support of U.S. pointy objectives

They reso range with their From 1952 und 1967. They sees range with heir thread States means the means and the set of the constant of the set of the perception informational Development, he set of the ambianceter, as directory ambianceter, as directory or (COV Operations and Herra Development States Development

In the safe location, in served as the CAN deputy director of opentons, the Agency's olardestine terminer 4, 1903, Collay was swern no at the terth director of Certral Heatgence, a posterin knotwhich is encoded on Jensery 30, 1976. Is in not be recurse of a down

When these tourness, one can be one of national sparsform ensources of national sparsform ensources to common ensources to common ensources of the startice when an esdeccour of the Central Institute When an esdeccour of the Central Institute When an esdeccour of the Central Institute of th

about his proposals. I





A COLD WAR SUPERSPY AND MASTER OF COVERT OPERATIONS OFFERS A BOLD

PHOTOGRAPHS BY PETER LIEPKE

Insertion of Westington, DC, not long ago to spenie with Mr. Cothy, Lamwed lams on a Monday wilamson. We were to meadat his Georgetown townhouse the next morning, and Lideoldid on my evening stoll, to acout cut the address which Linkd been given.

Much has been writen repartly about the decline of Georgetown, of the produces on Matter and of boutquest on Watconsm spacekang in jewahy for crack dealer.

Mr. Colby does not ive in their part of Georgebown Mr. Colby Levis, celber

air Corby lives, faith, in a lovely quet, the anid tait us and not fer four Montrose Park, in the sort of neighborhood in which a copy of The Groan Book, the DC score register, could probably be found somewhere in every house on the book

on the book. Canadas micrail the sectority arrangements for a retrieved DCL I walked slowly by the house being at the late rend of hear book the week of gland save them at the late rend of hear book the week of gland save nerve sails bacteried class remains a suit emerge even a highly polished care in work of Copys house, technologies bag full of whooling and the same bag full of whooling

Pieco Diol MIT Legiting home the Skippy and White Could's My evening is spert in provid reflection on the visues of the Open Society

In his large com the main marking. Wr Colcy deness any innerholips dr, or involvement with, this previous evening's groot-wise. Denability, of ocuros, er werything in the riskligance business. He does however decruss the datase spanding procepts and his thoughts on the force lavels.

marks, his vecon of our convector markenel security needs and of current existing familiary of the prostituty of a mixim to facebane in an embiliared Rostes (and a possible Carbachev correback), and the prospect of ethnic verys 6 is Rioma-Herzagovini-Cocaka in the tomer Soviel Union.

Altor, encoder, in Cotty a very genarate in the instandar to possible the instandar to possible and resolvery, while the charge of benare and adorton open of demograation of an ordinary adorton open of demograation of a charge of adorton open of demograand and a charge of the second address of a charge of the second address of the

And finally (while wo're at it), why was Renots Nuper conving Coltry's business card when he was found shot to depth?

The queetoris, then, in order of ascrassing discrete to --Hempton Howerd (Color Manager as the author of the novel of international exponency: Prend, Plannama, and Countrymen, 3t Martine Prend, 1983 (

Owni, in a tapp for Senator Howard Melsantaurina Coolition for Democratic Velues, you recerrity called for reducing national celence spending by hait over the next relocate underlying your perspendir?

Code it is simple im an interface of the top of the top



Overt surveillence: Former DCI's home in quiet section of Georgetewn; stoking out the entrance to the CIA offices in Washington.





January 4, 1990

MOST NOTABLE JOB: Devotor of Central

Instigence, 1973-1978

TIPS ON TRADE

"Fewer operations people studying Polish more studying Analois."

"How're net gong to pay your agents in Poland in dollar bils, or bright, new zith, either Yours gong to get some dirty old zoly the twee been kened about for a long time so the numbers ann no known thanthable The way you run an noningence agency is to accurate other that you have a current penetration, or that acminibatly can defact, or just go out and balls has march ...

ON JAMES JESUS

"In the end, he got off on a wrong twist. That's why I began to take things away from him, hoping he d take this hint and leave.

QUOTE:

We must recognize that the safety and wefare of our people are the real national security issues ' Army is no longer at the Fadds Gap ready to burst own to the English Channel in two weeks, as used to be our estimate. They are now 650 miles farther east, aske for some remnants still solling their ownoasts and so forth

We now have a different world in vitrate every dispute is not interestately the focus of Bowth-American contractifier as used to be the cases—in Data. Poland: Wetham, the Middle East and all the next in the Call Was we actually worked with the Soviett I was notify from them to time, but we besidely cooperaided

Now finite an exception of the second second second second second second second and officer in the LLB. A merily second s there About 116.000 were reserves to we text about 425,000 regulars, 20 percent of our text force Could way have set 40 percent? I think so Late look at in terms of devates. We have the arrey devates, How many data to arrey devates, How many data to a text back on the How many data in text back on the how many data in text back on the how many data the how many data we send to the GuP The How many do see need? Egitt Four neath occan. Neo gos and how count? Yan botch is 14

If apply the same thing is only here been on two cardiantee automatikes in the second second and the substantiality of the second data to the second second second second data to these or their functional for pothema the second second second second data to these or their functional for pothema the second second second second data to the second second second second the second second second second second second second second the second second second second second second second second the second second second second second second second second the second second second second second second second the second seco

Again. In the property diarrayment, mesh a bron level approximate to the begget and of experiance were pering to be alreaded to do. If Russia and the Gamme po to were were not going to be on one and or the other Were gamg to be out of a The only real probtism is people this the North Koreare. Bedden Hussien, or a law withing prime has anoth the world were could requee us with the cooperation of the United Nations in the form.

While shift the leading nation in the works, and we have to keep the leadenting powhor to be responsible and not go into the sort of isolations that was such a chaster in my youth. But wern not alone. There is a lot of money around that can help on these serts of things, which is My we can scale down our present (shoe leads by hat over the not the years.

Over A reduction in defense spending would presumably be accomplished by a reduction in spending for intelligence. How might intelligence reductions be accomplished?

Colpy That is classified, and I don't have any access to it. But one thing that's faily obvious would be the rathinterest technological sepect Other: The "watcum cleaner"?—the vast electronic seven externs? Galay ten, the electronic usuants in the property and is of the electronic state of the electronic state of the electronic state of the electronic state instants of the local, device the electronic instants of the local, device the electronic press of the local state of electronic state press of the local state of electronic state of the local state of the local state of the press of the local state of the local state is the local state of the local state of the state is the local state of the local state of the state is the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the local state of the state of the local state of the state of the local state of the loc

Think how many good sergeants and petty officers would make fabulous teacher's aides or police assistants, serving as role models. They'd be enermously effective.?

Cenver Your proposed spanding cuts senously distress powerful and an varietied spaceal interests. How would you redirect spending to engineer polifical augment for flews cuto?

Deby Some of he severe should suming an one of he most valuation methods and metals the output over made was the GLBH I profeed from it and it charged Armoun discutter immetisally Century anyone who loss a postauld be orbarised for a new job, with himitational subport moving expension and bostenance which thrift e undergoing reterming the tred classerul metaling the second second second second second in debits account who they have a second metal base of the second second second metal second second second second second metal second se

The more processing danger to most American citizens a waiking trough the centre city. That's mecurity its not going to be individ by accilians, but by pilos, according opportunity, investment, entroprise zones. Cur youth are threarised by a hardbin reve piloga, ADB, and that is not going to be solved by polides, but by high-monater impolaresearch, health care, social work. Think how many of our good setgeants and perty officers would make fabilous leachers actes or police examinate, sering as role models for some of the deprived people in this country. They'd be enormously eithcave.

We must record to be the safety and worker of our peet in the safety and worker of our peet in the the term of the safety of the safety of the muse to detail of pinds, to record our workal be allert Wet if the arone conmulane to detain and the American cocap mets, we're gaing to lose hall of pinds those are need the numbers, the gain positive, is that a finest to cur securing rest.

If a million regin array were correctly on fair, with ownything wer had their nairy to fair, with wenything wer had their nairy to fair, were ownything were had the country ownery ware. They're pool poople seeking a better life, but we're lot of control of our berteiner. How drey you share it to be the to be the to be the better and the seek of the best and the bes

Arres when does the grown borne come when does the grown borne barg of North Kora. And Badgim Hue Colley Well. 1 and I may be potentialy, although I third here size to be group their why back into the fool them are two instead of potential them are two instead on the two potencies to two insteads of the terms in viewous countees, including bers to two instead Bodeway theo.

The Research right larm to a new loss series out of instructions with their present and that we help herr move the proease in the right denotem Thris of 1918 and 1969. In 1918, the webmous also also the series of the theory of the add 1969 in 1919, the webmous also outraged if and becking, government, enacted research one, and gori Addrithere is the webcaded of the outridge in the international degree the two relations counties, in the world Weite a bound degree the theory of the the observer method and the two observers.

Ormit: Supporters of the Russian vice pretedent: Alexander Russiai, have referred to the West as Russes's "schersary" What about Russia—are we going to here more from htm?

Calby Russies situation is tembly, ternbly dependent upon the communihealth and vitality of one man, Bons Yell-





JEO UPDATE

SECRET CONFERENCE AT MIT-Despite an oath of silence, abduction attendees soill the beans



Despite the drama and byices heartbreak of their stories. UEO anductees have long been mused in discourse. Erom the small, sit-eved a liens starships, the horrors ab ductives deacribe have be

That's why when Massachusetts instrute of Technol-cgy physics professor and UFO advocate David Pritchard decided to hold an abductee conterence respectability was key. As part of his game plan, he wen arranged to hold the conference at his home in-flution, that halimark of science and technology, MIT. But in what may have been a tactical error, last sum mena MIT abduction conterence was declared a searet bafore it even began

One of the reasons, of course, was MIT's refusal to be labeled a conference "host," in the true MIT spirto be ablend a contenence "host," in the true MIT spe-it of academic freedom, the university placed no con-straints on the subject matter of gatherings sponsored by tacuity members. On the contrary, MIT provided ocet, a host of support functions, from registration food and investor. However, one stiful excuitement to food and housing. However, one strict requirement was that the gathering not be called an MIT confer ence, but rather, "the conference at MIT.

Before attendees were accepted for registration in fact. Pritchard had them sign an eath piedeing to call the contenence just that. And while he was wr ing a formal cath, he added some requirements of h own. Foremost was the stipulation that attended promise not to discuss the proceedings with outsiders or reporters, or for that matter, in any public forum et al. The restrants, Pritchard told attendees, were necessary to "encourage discussion." Present-ers could "speculate wildly," then carefully edit them contributions so that they "appear sufficieus and re strained in perf

he all efforts to maintain secrecy, the event Butdrap was barely over before accounts began circulating Ologists by word of mouth, on computer billetin heards, and at fiving-saucer conferences around the world. UFO newsletters and may in North America and Europe carried reports. And in all these forums, the meeting was referred to as "the MIT abduction conference" after all

The details of the conference, say altendees, ranged from the mundane to the bizarre. A numb geo nomine e mundane to the otzarre. A numb papers addressed dry research techniques, fro thods of hypnosis to modals for questionnaires. Of ers outlined the latest evidence for alien visitation, including the case of New York condo abductee "Cathy," who says she was bearned to a starship from the windows of her high rise, and South Amer-can witnesses allegedly forced to have ser with crew members from UFOs. Veteran California UFOIat and conference attendee James Harder ment tinguished between two types of aliens. "Camp B ins, the lass experienced and far lass careful, are record arrivals and may treat humans much like we treat animals under study," he explained. "Camp A aliens, on the other hand, have been around for a long time," and are "inuch more likely to display a be-Nent attitude.

Some conference details even lookod out on na-tional TV when abduction researcher Budd Hopkins told viewers that "four extratemestrial implants are being verified in university labs." The implants, he explained, helped aliens track the movement and be vior of "tagged" abductees. The claim was disputed by Pritchard, who, after studying some of the molar called the evidence "totally unconvincing."

With a yen for respectability. Pricehard promises release published conference proceedings any da "I hope it will present a comprehensible and sch arly overview of this phenomenon," he says, "one that is broad and bal- to the spirit of ecodym

ple into the tiels The published proceedings, he adds, will hope the author books, which sent a ba anced view

ome competent, skilled is freedom, MIT placed voounterbalance fain-lest metter and prevido not necessarily pre- ed sepport like feed -JAMES OBERG and Indoles at cost.

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"There are a lot more graphics in the talend he hardly moved a beat in his from a food magazine "They're grintig ry debit want a Star Marr teel to Next the single are us, the olders are clater

"Based on who; Eve seen, it looks the them's open to be more spence says Paul Lyrich, director of "A Man Alone." the first hour episode of the seres Dasp Space Ning is a little clarkor thereig a greater cases sochas of even. tarm and activity and conflict. It's still or things and has a greater scope then Next Generation

mang costs so much to do. Star Mara built the suckerice. When Next Gener those fairs and then their familitie. The on making films at a 100 million dollars each To properly compete you we not There's so much makeup!" He points around "If a unior transfer had a lacknow

There are already a hall-dozen other shows trans to simo on the bandcompleted, siys Pick Berman "As we shoak the show has been the number berry's unwerse has been a plus from tempts [at SF shows] that have not payl off. The sinvaoth and furnhanty of these new shows succeed. I think

alten an Wil Wheeter revorme Wester

If a couche amount that the parrel or here.' sour Lynch. "Even the more characters will take some ordet tatos

a carban lack of control which they ar Peter Alian Fields adds '1 don't smoothed out. On Geep Space Non-

The management of Starlands reported

DEEP SPACE

flocted in their technology and art and making We made more piles for con't like 90 degree angles. They like things in onto of throops, Millionado, they like class colphy that we've used to create the Conclusion world Series the labor on

cerved stations in space. Michael tritupal provide and a shell of accreted meternal for seriacion protection as well

but convetent alien technologie just an ers that will populate the much-talked . Next Genaration was? SF program





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Next and specie and advertage says Pane Autoprotes Table to core of the show is about Selecitying to come to larms with his own humanly and the pain his supervanced. His spale complex, and its really a study about how you move on form loss and gnef the about how we have to move, how we have a server of table.

"I just save the movie adout Stephen Hawking A Brid/Hossay of Zina Hawking motion the observation that time as healty our invention, that it we can remember the past why our time movies ber the future? This tres to deal with hait We limit consideres by trying to leve in this very linear world.

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CANCER

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tympir system) in two pattents, cancer sause that had remained after standered chemotherapy completionly disappased. A one rinch swotlan cancerous tympin node under the pay of one pattent emby disappagend

The episcensi lied to a sustained immune response in seven of the rate encipents. One expensioned a recurrence of symptoma, while the others have remained in remission for as long as lim months. Charty, much longer tollow up periods are needed because symphomes can reour many years what going into remission.

Providue altempts to develop a cancer vegoine have been imited because they have been based on tumor anogene that are not unque for the cancerous cells in each pallent.

The Barriard research term made an individual vaccime for each patient promotes the coding of the carbornal is used, where blood colls called type prodytes that correlative produce devices righting undecides. To make the vacous, the assessment produce a people of the symphone, great the calls in heir base, and then separated path of the surface of the B colls from the other colbids, correspondent.

To open a final also been medo on a realizante a vocen a. New Yes, Unvertary over the pair eight years, learn Cauda beying his a motion direct time of proteins stocked with the section of proteins stocked with the section of analyzent metanomic of H eff of the final a storage reaperior. Although as sec and sever years, of which had the coursing is existing on which had the the development of the section the development wears of the had the courser is the termination with motifithe development wears of the final the development wears of the termination of the termination of the termination operation.

Given brenzy tes site usive a sudden arch tower Last April researchen arch tower buybes Medical insources that hay were usay to pertage that they were usay to pernecting DM-april hold to assert failunec Given bandpy began in Jure In to new mohod, reservities inset siterel time course of a perin fail provide that instances for mating an artiger perincipale I Auto- usage the Decision bandpoint of a perin fail prolet has an advanced and the approximate the instance of a perincipal of a perincipal bandpoint of a perincipal of a perincipal tage perincipale I Auto-

them back into their owner. But it will be several years before the effectiveness of the approach against melanoma of any other parcer is demonstrated.

Many members of the modeal commanity vow instructionerspaces as the most promising makes if controlling concer in the lature. They look lowing to the the standard means of alignificant, two ing and ultimately proverting cancera batters new work!

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and these and ends in care. The Carbon area and approximate of a limit of which is any and approximate of a limit of the second second

capy three large isound stages on the hearmount is in Hoftywood. Phinogeal photography logan in August, and the tist opende web to an intravely if history is allowed to repeat test, and if an Gare Pocketherery mes wild, year own ports home again. This the world is have onested for Deep Space Merwill preset the public, ring have—and, Hogan, line large and pools. Col

CREDITS

The problem of the section of the s

BATTLE OF LONG ISLAND

CONTINUED FROM FAGE 75

colorest yes technic bruce of

My mother told me, when I was eight, that my father had caused the wat then raging in Vietnem.

I say nothing

"Then," Heaty continues in his beautable, procise, foreign voto: "The initial event available of the presert as well. Some of hear must, by simple electrocitor, be more expending than this cree." He gitnese recard the data barries. Beyond the barroid windata barries. Beyond the barroid windata formation tagets of hear energy's tage?

Then I remember that he probably doesn't even recognize it. The stars and strippie water't adopted by the Continental Congress unit 1777

"This compound is not the whole of our present." Bechtel says, too gently "The rost is much different."

Heavy wones a hand, uniting, "Ch, uses I'm convensed you have merves abounding including your odition of Londen Which, amos I cannot return to my own, I hape to one day visit." The print elevents alightly, but in a moment he issue to back. "Of course, it will not be even the descendent of my own. I must be propared for that in the hertory you Colonials lought the Back of Long black of the supreme."

Yes, Bechtel save

"No work halony is apprently guilt undocumable May induced laboration stells method no consiston appears to stell and that no consiston appears to static between this place and whotevecentrol of ocurte, hnow white implihave happened in the ocure of my own, war, any more ther you can be in the ocure of the static base of the static because of the perimers and high-desiand cuts, who perimers and high-desiand cuts, who

Bechlal laya down the prefect and teeps toward heavy coll insurancewy the Brit reaches for the cost of tes unform and public around heave steadaws Bechler wells until Heavy is disport in the nammark of the Britele Empre Them Bechlaf speaks in a voce both selecty and others its term calcutation match the cardinas facate of Heaving and thereare.

"You must choose the reality you profor Look at it their way, Captain. You don't know for sum who won't he wan in your mere, or who survived it, or what. England or the United States became after your November 16, 1776 Your peets is cleared to you So you're fee to choose whetever one you wath You on two as if your choice is syour peet. And in no doing, make it real! impare bandar at my schemer, feet.

I move carefully at my station, feeding Hoely's blood samples into the Hays-Misson analyzer.

Heally says, with that same brittle garety. 'You are unging me to as act of talt, ar "

"Yea. If you like," Bechtel says. He looks at me "But I would call it an act of chaps."

"Choice that I am not a preasure de guerre from a losing army, of a war I may or may not have surved?"

'Yos "

Twill consider what you say, sit? Heaby says, and burns away. The operators on his shouldors tremble, but it may have been the light. From the pastado ground beyond the window comes the same if it is used, with a failth or differ

"I've finaded here," Boohel tolls the guard, who tokays the information over his comin's

They remove Heaty in a wheelchar, although it's obvious he closent like this As he's wheeled past, he catches



et my erm His blas eyes smile but he Ingers dig into my flesh i don't allow mysell to wrice. "Matexas Nurse—and there lades where i'm going? Shell i here the collety of your tex?"

Look git tim hat wan a thirt of how locatoreast May lightma field has locatoreast May lightma field has locatorial to the octavity present time to content it aggined the report myself. When the Petrospon takes the Annula hom our compaund, they would as complany as if here/in ever counset, and not seen an electron-octas har, if is fault ing space of the herefy-field confury in mana Lablas? The society of my sis? How would I trav?

"Yes," I say to Healy "You will

The teric is empty except for Bechell and me I clean and abw the equipment, ha acruba at the sink. His back is to me Very low so that I barely hear tim over the running walds. No says, Scann

"All right," I say. "I choose You did #."

I work out of the burker Some totdays stand outside, at persole real, labeling to their sergesmin read the orders for mease out. Quards still reg the piace where the Heel used to be in the sky above the Low Patier Barner a resignal wheak and ones. The enopticar is should be rever teem into.

faither since

You may their Lanced have choose determiny You may have the elesance of proof, that like may ney empower and by the Costmitten of the United States, i should choose the more more end by the Costmitten of the United States, i should choose the more more internet with a new beyond both practition mean motivation of automation and important who is now beyond both practiand (moreover, like The hall evidence is more during the character evidence and processors the web it year not only at theme too present of the out the output of theme too present of the output and in one years in our too the too.

But result all be the Schara Feters inside sill anoth my runser termibe with low on the monolight and i nock all see calaxy the decaption agent is an another the decaption agent is would still receive the amon trustees agents mis accessized an any form the hespital, and all proteimation all login at a would all known that there is the hespital, and all proteimation all login at a would all known that there is hespital, and all proteimation all proteimations and and most valuerable, and an greatest mean what is an accessing proteimation may valuerable, and an greatest mean what is an accessing proteimation and valuerable.

I would still know what Strickland learned The Hole always closes.

One version of the past has shaped

al my of choices. If I clocks it never heppaned, what remains? Will I assi? I, is Super heters, who truis the beat combait nuting unit in the entire Arm? I, is Super heters, who have exemend both the Commendation Medal and the Distion, who can operate or a patient my self the obcines are occupied with other screaming and suffering "And Awe?

L Susan Petera

Who was sexually atward by her father, no away from home, joined the Army, became a nurse, served honorobly in the Special Medical and have nortry Baths of Long Island and have norer faid to a patient exect once

And maybe it ween't is be

Maybe there will be indies where they are taking Capters John Proty Histoly of take Myselv King Capters John Will Stand will borne young women: somewhere, in the mooning if and touch har face well genote freques its periods i oritamity don't know differently. And if there are, then if warring town all to Do

Author Nancy Krees has won the Hugo and Netwa Awards for her work. Her nast novel Beggars in Span, will be publated by AvoNova in April 1993.





CONTINUED FINOM PAGE 35

Sn If something abruid heppon to him—and its always possible as we know, previdents get shot—fram me what would happen to current policisa becomes very know. There's Rubbon Them some of the us-loog potense to the shot of the us-loog potense might come out of the woodwork i theirs. Contactions would make another hill for II finded cantary be a somebil for power and you could get a fisoil government.

But excelors to the same ineast the Soviet Union west. It would take them the system is noticely the force, and hey draw and the molecular the softence from the other regulates, who would be furnition of a manufacture than regulations. The Babos he overall Asian regulation of barrels, may be below — they did be unions. myster belows—they did be unions. myster belows—they did be wereomet and would cooperate which and where the sorte.

Why Research of the second sec

Dates You alward here armed conflict in Middaw with the Trans Constitute to comments. Thesis of a constant the the law Antern Bahr Constant on a transfer Repeate intervention of the transfer of the Repeate intervention of the Appendent Repeate and the Arane argue about the result or considerable inglements to get the spin the Arane and the Appendent Repeate and the Arane argue about the result occasionable inglements to get the spin the Arane argue and the result occasionable inglements of the Appendent and the Arane argue and the result occasionable inglement a fiber and argue are accusing a fiber of the Arane in ord parts to law Ward War II.

Otex: Wash's presence at the Munich summit a year ago underscored the last trait Russie man foreign policy obpolive now in to join the West, Is that the place for a mborn Russie?

Cality, They have to join the West They note what the West has to other intertined assistance and investment. They have a whole needpotting bb to do. A thend told me that in ourwataser with an Extern European labeley manager ha mentawel the local of contain and the guy didful understand whole he was taking about. For him, coptal didful filwa cost if was used them.

There a not entrey facebook modal for the Soviet Union. It's called italy italy still has a huge shale industrial setor that is compt, inefficient, and a tertible burder on the eccopyry. But un-



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The Sovets shouldn't worky about their great old industrial behaviour Thate's not much you can do about them, and privationg's difficult. The question is not whether but how to be them colleges. That is a problem, because years's larger 10 to 20 million intermediated when they cho

Other: With the latenchance of Russa one would have expected a deminution of overRussan minitigence pathware in the United States. Yet last year, DCI hobert Galass indicated that each entry map contrast reactly underfail. In this memory a lunction of methal momentum, no within elebastic policy?

Galay: There's some ascenation, obvocately but it work its the KGB's attornet to test a role for mark and to make a contribution through attacking active locinology. If your aid role, that of controling society, sen't there anymore, will, then you how to herd a role role.

Crew However hundlemost by technology, the opheteropy of the signature will be applied to the signature will be applied to the sectors in the applied with periodical dependence on the signature will be applied to the signature applied to the size applied to the size of the size of the size applied to the size of the size of the size applied to the size of the size of

Other Your book Lost Victory, states that it was obvious as early as 1962 that the Sovietshed life influence over the Wetnember, Was the Victoriam War, then you a superpower conflict?

Collay, No it wasn't Monicow and Being were both being manpulated by the North Vathamese They'd go to Chna and any. The Russiant are holping us, you've got to give us some help to match at "Then back to the Russiania, "The Dances are helping us, one us.

some help to match it," and so on They played them like a violin.

The Valetarn War was a people's were were the question was whether the South Velentrmene people could be brought must be hold potential the second second second second second to a second second second second to the second second second second to the second s

Cleary: Are you referring to the Phoenex Program?

Carby, Nat the Phanesc III is referring to the CEREB percention and development program that indicated electronic in whigh sealant is indicated electronic of boots is burled on the percent of the style, if you will, the speciality of boots is burled on the speciality of boots as developer in maken which is and warrang auto respect to the peraktive and the speciality of the same we reconstruct them in the start the indigates after to identify who the rearrent will on the start was part

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Cably, No. 1. won't say that no tortune werk on in Weham. But no assaches these took places I do say that the purpose and effect of Phoens was to merize mean machinal, and such miscleads want in direct contrast to the specific order were, such the program not be a program of assachemation—so

Other, Citay to what were you referring in your Command Diroctive in 1969 that said, "I individuals find the activties of the Phoenic Register repugnant, they can, on their application, be receanced licen fire program."

Coby Poten work, Borne people, etc. derar particularly, don't like poten work. Boldenary and pokeng and land deferent subjects To idon'thy socrat fitness had a high querry of poleng If you don't like in Tinic go cut and be a bedraf Socianing 6 the application of deletrate force to cush an enany in polen work, we mail can imade and gat control and not use force eccept se: signers that worked for us abroad it is last resort. Police work is more sub - elder I want that included to be in my test bars accurate of my the Franky I

One interventing to Own DaForest, ON check interrogation officer in Military Region III Issuer 1980 and the Ski of Sagon in 1975, the CAA financial operators in Valenai by burying heavily discounted black market presters in Hong Kong Tom South Voranness government officials involved in the opum trade is bit to bury.

Early Commity not commonly two deb will almost alcolar monitors in the minimum alcolar monitors in the interpret of the second second second second in Planta will be not grant to only almost an exploring the second second second second in Planta will be not grant to only almost allocations of the second second second allocations and the second the second second second second second the second seco

This occurs thing a shown to leave bring but even in the high hilds of Lacativities we seen here by engaged, we mode a particular point of decorsing high growth of opsium and there is a decorsing high growth of opsium and there is a statement. There are any seen and is a decors we have a statement of a seen and the decors of a seen and a statement of the decors of a seen and a statement of the decors of a seen and a seen and decors of the decors of a seen and decors of the decors of a seen and below of the decors below of the decors of the decors of the below of the decors of the d

The officiants and tribul leaders we worked with were reasonably clean. This ones in this operating the number of the the Vienbane generate of the Royal Lao. Army, at of which were down in the vallay and deht take much generit in the warof which the titled pages carried the burof which the titled pages carried the bur-

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Doby, No. I never sear we could in three is pretrained in. The way you unual reliablement agency is to assume other sometody can derect or sometody comparing the due to the sometody comparing the due to the due to comparing the due to the due to comparing the due to the due to comparing the sometody learns all of the dunotes, I made a particular panel of the source, I made a particular panel of the source or not compared on the foreagen signets that worked for us abroad i didit want that incodege to be in my head for the sol of my the finning. I doubt force was a high-level panetotion. I bokat carshally at award cases where three wore particular support and as a lowyer, I was audioaria to be an only the second lowy methods. All includes the second flow of the other technics in these lows? The 1997 Intellingence is the second

Denic The 1960 Intelligence Authorses ton Act contained a clause that came to be interes within the Agercy as the Mole Melli Act, changrade to compenteet officers whose catisets had been lightly One open the impression that Courterviteligence under Angiaten was in its observate soard-the Golytish's mole and its incoherment in MriCher, es essentially out of control.

Gatty Wei, i join't hone then in was out of ochard "Weike, i join't hone then in was an hybring Vareus checked for it was an hybring Vareus checked for it was an hybring Vareus checked for an upper of ochard in the property of the support of the the property of the support of

Owner The only successful long semi peretration of the Agency widely known to the public is, in fact, the case of Larry Wulfai Chin who served the Chinese Havid do you way China? What can we expect that them in the common veer?

Cellsy Wiremont's test on and/stills: Ch-Very York transformed to the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the mean expression full the commented age provides of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the derivative of the set of the set of the set of the set of the derivative of the set of the set of the set of the set of the derivative of the set of the derivative of the set of th

Other, If you want the head of a toreign intelligence service today, how would your world have changed with Bill Dinton's elector?

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Coby Not a great cost. There is, after all, a great contrastly in Americalin polog, and the serio mapping selecters coming. Bowarnia: Clinitors it inst prostless will be internel and economics, a devidopment that will be greated with delight atomatic even through it will mean on mcrease in American competitiveness over time.

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Develop in Taket, New years offar your totum to provide this Nogen Hand List an investment bank in System Hand List an investment bank and share found in the frances of Nogen, was bound share to some at the start of designer of these such share of the start designer (so these such share of the start of some at the start of the start back is a start of the start back is a start of the start back is a start of the start of the start back is a start of the start back is a start of the start o

Carly, That staation cares to me via a maintain freed via that been in back with here it has been in back as on backgroproperty here—site in plotoiners and an identification of the closes to the That back was been back to be the that back as a back to be the state of the site of the back to be the state of the site that and no responsibility to the back to an other that the site of back to back to back to a site of back to back the site of back to back the site of back the site of back to back the site of back the site of back to back the site of back the site of back to back the site of back to back the site of back to back the site of back the site of back to back the site of back to back the site of back to back the site of back the site of back the site of back to back the site of back the site of back to back the site of back the site of back



57 CARD

GAMES

DIVERSE DIVERSIONS: Some puzzles about stars, knights, and squares

By Soot Morris

This aske we protont a polycum of puzzle quickles The antiwars lolow the puzzles.

1 Take out four permass to play Size Bolizano Put the first on any point of the star (bolow), and then state. A sloring in two to another point work leave the start of the start second permy on any wear's point, and while 4 sloring a real to another enroly perm Do the come with the finite and hourth permission. A you can White amyle at plants a plant lots you and a plants we ad the accented.



2 The sum of the internal angles of a triangle is 100 dogrees. What is the sum of the triannel angles of a five poetaid star? If you please a match at the position shown, how could you use in to make the answer intruckin obvious?

3. Zor the http://pit.as.abox in the Grant Hall, white two goldain code hang that may an interference of the Dol-load cealing Hawmits to bala zer much code as possible by chimiting up in and scuting in with the cauger built affel from anywhere above 30 best would be fault. How much code can be take? 4 How many roctangles or squares can be formed that have their contents on 4of these 12 closs? Some assumptions are shown.



5 Move one line to make



6 Nova three knos b make three scuarces



7. Wehout reamanging obors, find ten words in the

B. COLD/FROG. JOLLY/ CHEER, ADOURNALEYS FRUUD. What's the ingic governing these word pairs, and what word goes in the blank?

9 There are four common English words that end in DOUS. What are they?

10 Find three numbers (, that give the same result whether added together or multiplied together 11 How many 56 are there in the numbers from to 1007

2 Tolmpane worke curver by MALL STOP SPOT BORRE BEAM WALK, RATION, ? BUTTER FLY, ? FING, ? TH ? COUNCE SOLUME: TUPIN, PORMATION, PERSURE RAX, CHPCOMOSOME, ? What be loge of the wort espannic? Which word is a pain on a barrows probe a pain on a barrows probe a pain on a barrows probe and were a the product? Can you supply words for the genetic network?

ANIMER

 Place each penny so the it slices to the port where the previous panny started 2 180 Side the match

2. But also in the local second point and the head receives point. B. Pwol the match up and also e 6 bectom-rings to point E. Pincel 4 agree and sloke 4 headhraft to C. Keep going in a wimike forehon until the match has point. D. When it gots threa, it is head down. a 100-degree form.

3. Aud of First Zot teet the bottoms together. This in the clement to the logic of only spee, Ho weight the logic around both ropes and outs the outer and two by Homany through the this other more through the this other more through the ring this hall the homans and the search the rope of dust the double rope and outs the double rope and outs the their tope at the rog the teicke down the clustee or the to the floor and puts the condit leve of the rope.

4 There are 30 rectargles. When teveral hundred people actually took this test, only 3 percent

answered this quastion correctly Most overlooked the two diagonal equalities

 Move the minus sign to the left of the X and make it vertical.

6 You have to destroy the first square to make time



7 The, Janan, hore, her, he, nam re, in there, I (Also the archaic ever)

Di COBRA e la risariaria di COBRA e la risariaria verdi Sint eschi al fini presente la verdi a bia presente la verdi a bia programa la verdi a bia programa cherra di desaria programa cherra di desaria presente si di desaria presente di desaria

tremendous stupendous, hazardous

10 1, 2 and 3 11 20 (Did you count the two in 997)

12. Bisch word forms a ismäar par with a letter of the alphabet Artams, Benows C-claim, D day, Ernad, and us on. The slogan pan is Wephalaunc, tiom the ingle for Doubleming gam Loan titlerk of any good "gorenei knowledge" exempted for L N, P R, and Z. Can you? DO