

BLOGIES MALE PREGNANCY

OICES IN CHILDBIRTH MAN MADE WOMB





PAGE

VOL 8 NO 3

EDITOR IN CHIEF A DESIGN DIRECTOR: BOD GUCCIONE

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NEW BIRTH TECHNOLOGIES WILWILLS .

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Archconservatives have

CONTRIBUTORS









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Perhaps the most controversal future both scienago o visale pregnancy At first, consulting editor (Dek Reves and contriburay editor (Makin Pregnancy Tipage 50) tout in "Makin Pregnancy" (page 50) they report that male mothers are theoretic control. ing the piecontal can support a fetur in the abdommed carty custode free worth. But what make would want to exponent conclusion? Not Cit Teres. Deepte free fact the Kartieren McAudie and I washed agent or way closely. The protests there to no trush to the union that I am comyring her way closely. The protest is there to no trush to the union of that I am comyring her bely Wiler set all post freed to III. The to a gaint in McAudiest ayout 1 conflict that the does of men comyring between way appositing to their makely affecting the processing to the makely affecting the first the confiner.

I wouldn't be automorif in the first accounted made improvely occurred in Automa with bloods some of the prefet manufactured and the prefet precedure was the manufactured with manufactured and the present of the control some bloody to design the control some bloody to design the control to be bridge pomores in this smooth to be tridge pomores in this smooth to be tridge pomores in this smooth accounted streep embry plotted to account of the control accounted when the second the control is about to perfect allowing the foruments a should be perfect allowing the foruments a should be perfect allowing the foruments as the foruments the fo

country or out to be proved to broken, and only the province of the beautiful province of the be

toward a mysterious mountain. Hourided by scavenger basets, one man comes to some with the designer in hymnel (20)

Introducing a Nikon for total beginners who don't plan to stay that way.





This parties was taken in the repriest mode, with a Nikos



you're new to 35mm And with programmed exposure control, all you

But you won't be a beginner forever. So the N2000 also has a high-speed programmed mode, aperturn priority automatic and manual modes, TTL flash control plus the ability to accept over 60 Nikon lenses So as you progress from beautiful

the the one on the left to complex beauties like the one on the right, one thing you won't We tak have to change is your camera. STESSESLOW



ETTERS

COMMUNICATIONS

Robustal Richard Wolksmins Carcars of the Future (Suptamber 1955) does an excellent job or outlang employment french in boday a emerging schnologies. No sorthology osats in a vacuum however and prediction that that is consider potential sinks of meetance inversibly turn out to be wrong.

Worksman is suggested that practical is replace wood for conditionation is intrinsicent of the argument of several lasers ago that cotion and week would work a objective. Are we make lakely to stoop and wood is remainable domestic product. In clustic which is not?

to pauce, which is not:

Although it einbes economic sonise for separative inclustral indigits to replace height your auto-workers the same doesn't height your survivers the same doesn't height you for more making post. Furthermore, action arent consumers and neither will humans be if they're unemploted.

The profit rating of automation could easily be socied by government which use to deally a socied by government which use to see the profit of the second by government which use to see the second of the second of

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The Doubling Dowser
Vasce Wischer September 1995), by
Richard Wischers reminded mile of my finit
doward experience, in 1955, at Purdue
University My follow brammy members and
I—ell of us young aligning enginests
and countries—were load with the combien.

Roland H Printe

sewer line We all bughed foremen seked for

best from into I, shapes, and proceeded to walk around the property But sudderly the weak around the property But sudderly the weak mound and the benina instructed the backfloe operator to "dig hees." Within moments the tine was expressed, and we all sudders to the our own coots langers to see if we too had the "power."

Therefor is the require have the memory I.

had been one of the biggest skeptors here that day Now I think I I go outside and see it my old "power" can be rediscov ered and help me find my water line.

Lab Athletos

Gesundred

steeds and steeder usual points (August March) by Mark Soot and Formed Newtondo Although apods technology has only according to the Control of such worders as maddle advance for man the Control of the Propose Mart no decode active worders as maddle advance for man the Control of the Propose Mart no decode of competion at March yadr clid words charpon weight files and coloronyse usid female gyrmadis who spipas to be in once than not a time. The portramence

иресталско

Acian

In addition to the seven possible expenshoss one might have in puzzie solving [Games August 1995] I believe I have

decovered in eight instacting. I had out the Tipuzzle out of my copy of Dato: man quieted the people well y possible way but try as I might, I couldn't solve it. I was just about to give up and two to the crower page when I smalatid. southering the puzzle people Suddenty exerging pame loggether and I severation a perfectly shaped IT Could is severation.

Cress TV Senes Seen Worldwide The United States Information Agency is disply gratabilities Own president Keffry Kenton for the presence Admitted (Tib)

New Froction:

U.S. embossies in 30 countries have conversed this sense for authorices of in ential people in the sciences, industry, education and the medis. Clissify our

Leo Jatte, Charman Television and Film Acquisition Committee United States Information Agency United States Information Agency

CMVI

DIAIOGUE

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Cloring Controversy T. A. Happenhaimer a First Word [July 1965] makes some interesting points in

byte of human cloning, but I diseignered some of his suppliedants. Reppenhenner discribes delayed wirring, in which half of a divided female embry a fraction and—possibilities—imported in the womb of its equally make their period of the soundry period of their pe

is a clone of ferself.
I suggest his darrows considering such a procedure should lest be lested in see that should be not be lested in see that should be only on the should be not be a suitable acredible for froming Platinanity quales are annothing problem. The cloned offer would show the owner guide as its presentation causing problems in their relationship. It is build under the owner out offered in that thems to write out of others that thems.

som for hope that they will be better that we wasse. We arrother problem for the clone would be pressly which in excessionly for any feeting the problem of the problem of the power of the problem of the problem of the power of amorters to comittal in you, that the or ship probably leave exactly what you were thinking and design at all three? Happenherrer also also that disease where the problem of the problem of the shippenherrer also also that disease shippenherrer also also that disease shippenherrer also also that disease count Each find a could have a close.

He perhierer also also that disayed therefore also also that disayed therefore could offer perents insurance agent the teachersels of a find early down Each chief could have a cline, water or cell respectivement table to easi. however that every child is unaque and carred to replaced what he suggest on lead to a travewey mentality, such as one ow have with makinal goods. Why his any oppositifications with the original, chief? There is earlier on well as the chief? There is not become and the conbond the human race lost clavery become a common paradice but if everns to rew that have peered neutralization is trivially superior to me that have peered neutralization is trivially superior from a garnetic veloport. It is also proposed that clavery weakler be a wonderful way to study the schindow to be observed to be a wonderful way to study the schindow to be observed to be proposed to do the share being pushed to consider a human being—pushed to represent the control of the most of the proposed to the pr

Seilbrook TX

I dont have anything against cloning humane but I classiques with Hispponheimer trefang on the subgot Plas statement that your clone is not only like you but it you is false and about 0 only I can be me. A clone may be an exchangualhable duplicate

Heppenhamen's hypothetical Karen wouldn't be anything like her de layed-dwin done because the two would have grown up in different decades. Such a time difference would see major changes in loosely and would standale into significant.

> Gary S. Rea Okishoma City

people as Mehatina Ganchi and Martin Luther King could hive again. But you could also clone such demonic forces as Adolf Hitler and Charles Manson. Waudcht we bib better off by working with what we have here and now nuturing the best men and women and combating the worst? It may take a bit longer but if seems a saler bet in the circum of an

Roseville MN

T. A. Happenhorner resounds. Ms. Savidit, why do you place such that in psychologists? On people reed psychological screening before being allowed to have childher? Claims will have coving but many

accessing between body at the work of a free critisher of Classes and have cover to in many nationarries feature states of arms. Classes are only an oblast an observed at the control of and of the control of the control of and of the control of the control of and of the control of the control of the consense and the control of the control of the control of compensation for the base of a based one Change as a mandato for separating a ball.

Mit Hissa posit te wat salam. Although Lithen's research or identical heres did ladeed lind expected influences that were claused by environment what was supposing worse the strong carmitatings for Journal in terms research apent, even in reday differing anymomentals. Mis Westides clanning is one more wer to Mis Westides clanning is one more wer to

make belowe, and every bably born in a potential Hele or a potential Gardin. Wa we to not better oil settling for what we we would have been a contary ago, but you would have been a contary ago, but posteruration, and bottom, or vectories. Observe our sold like into a hold and if bearing our sold like into a letter, and solve our problems. Obering may pretail as more admissible by oil in the offeren of the own problems.

PERPETUAL MOTION

EARTH

By T. A. Hoppenhamer

here years ago in biden. Teast or me chemical facilities had a perpetual-amend disable had not been stated as a perpetual-amend the biden biden perpetual-amendment market between the control of the perpetual real market biden been and market biden been and market biden stated and the perpetual real market biden biden

he had replaced his special pumps with stardard electrically driven ones only to protect his secret from prying eyes. He was soggiffed.

We had reasonable doubt of the defershand out? The uniformen declared

We had reasonable doubt of the inferdant's guilt," the jury foremen declared. "The Londin will was done," coad Busing More recently, in Los Angelax, these was

the case of the inventor Karl Angenter and he attendy, alcoino Christoffer Angenter built a 1600-pound aegoriar motio which he and Christoffer charmed generated more energy than consumed. Essentially, the motor lessioned as long to the dwith compressed at the outside school for compressed at turned a propole and the energy produced by the propeler was approached into use.

the energy produced by the project was promised for leavelers described that Agrant and Davelers described that Agrant and Davelers described that Agrant and the set "But to those in the know proof of that claim resided in the matchines has people-all-entrol abolity and the set of produced that the set of by the matchine set of Davelers the day of Davelers the country of Davelers the day of Davelers the day of Davelers the day of Davelers the country of Davelers the day of Davelers the country of Davelers the day of Davelers the D

by the machine isself.

Deer when the club said they couldn't figure out how to connect the two ends of the future, investors who put up \$550000, remained convinced files to the district what inharmed flaggering and districtions which inharmed flaggering and

Chandler with found theit, and conspiracy. White the dispaties analyze the machine, and in their opinion, it was worth-less." and prosecutor James Green But dispate the underrice, the underlike allegate the underrice, the underlike their acquisited. "The jury actually believed their machine delivered more power than went into it,! complained Careen." I know herease the less that the interesses the less that their sections.

But the lease and most auccessful of these mentions is Juliately Newman of Lucedan Messages Newman has denel upon a fest this power appropriate of a property of the power appropriate of a property of the property of Serger Coupt Than Ingol. "Problem" in settler math nor physics, the explane his nearness with a suited stadd theory his secondly developed on his own." All maters in made spin of one entity is say between This imparison principle is so empty if behalded in the mind."

Navirian onto the entity which elegicity size his machine, the grycecopic particle. There is no instrument made that can weigh or see it "the implaine. What is this particles mass?" I haven I concerned imped with that, "he says." I don't give a host about methernetics.

The searce of the Newman residence are necessary by abstract an electric netter powers by abstract an electric netter powers by abstract an electric netter power by the proposed point residence and the proposed power by the proposed power by



V Kircly, rehistratify carriery perpetual-replan machine mentar points with his brainche 20 DNN

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CONTINUED CALIFORNIA

ISI AND MADNESS

SPACE By James E. Obero

bry speck in the year Pacific the focus of a coemo-scale mets of its past. The onairs of its ownt stone in mid-1965, NASA announced that it was regolating with Chie-which owns file

46 acuam mto pland it calls is a co emergency space stuffe landing facility from Vandenburg Ar Force Base E.s. opuld make an emergency dive to the

reached an agreement, and according Manager Amont by extending its runway and adding special shuftle guidance

became public, Morcow papers and radio TI, Moreow radio commentator Igor Chanacquiacy of guidance of nuclear messios " to say that the outling up of an Ar Force enclave. According to a report issued. by the news agency Tass. "Westergrams.

marked . Invaluable monumeros in the and the stands ecology will be described

dumo the construction of such a base uniful irrepensible damage The Screets have little-of any-bases to

treseures for which Islà de Piezua o be iretailed in hardly appropriate for in the easting Maleven Argort lower and will spend very little firme on the pland

include Assertine Zam Takey and Japan

Thus for the Children are pontinuing to Chileans protesting the treaty did hold a demonstration in July The first launch from Vandenburg is slated for spring 1996 second polar mesion is made next fall the will over have to make an emercency are easy to settly. And there's a rather simple way for the Sovets to linely assuable

well as to astronauts DC



Ashtrauts on Easter latered? It could happen if the United States and Chile can calm the Soviets

LISTENING IN THE WOMB

LIFE By Martha Nelson

secrits have known for a long-one final lack and it. Deveats classes.

New for cit her fourth revery mit opening the common claim gife verse to test batheer recall of penantial exponence psychological winthers DS-Copper and Melotres Spenice made confident learn have been as the penantial exponence psychological winthers confident internal from the bathers can be opening confident learn have been depended and the penantial reverse of the penantial reverse confident in the penaltic reverse confident

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result of expenences after both. It looked as if whatever caused this profession was prenated."

To existe that possible, DeCamor and Sport as saled in proving with some to a proportion as the property of some to a proportion as the property of the proper



Some babies may recall sounds from the world

vowel and consonant sound. In work now under way DeCasper hopes to pinpoint which part of the suckory expenence bases are remembering to be a consonant being the second

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Discourse work however may have water, implications in the creation of an article alwards. Imagine to the special day for the feat was the immediff eather. The immediate properties of the special state of the properties of the state, the single the tables a both after that of the state, the mass of the state, the single the mass of the state, the single the state of the state, and the the state of the state, and and state alwards the state of state state of state state

will continue to be a human being D

LIFE SIGNS

By Paul Bagne

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Grobston a developmental backgraf at the University of Celebrara Sion Diego Grobston eparations the films suggestion that the electroal actively of the first brain can be integerated to mean the linear thrike and fields. All that slags of this the brain and developed enough to all the brain on developed enough to all other to emotigate anything. The believes the Mala withbasis from the catheter in a.

entaryo-fetus reads. There may be premited toms of sensitivity we don't know anything about. "Gotseen in one of a small faul growing group of scientists and ethicists who think it's line as study the developing brain more industrially lifetimised in the

Whom is disconsistered by unreal?

But Barney professor owners and the Paul Barney professor owners of region of Physiological American Christopia of Physiological Physiological Christopia Christopi

In testify claves. We read a definition of life as consistent as the one we now have for clearly account to the property to Berune Blood, director of the Baylor University Content for Effect. His suggestion is modeled after the trans-deal hyusidines established by the Harvaco Medical Script in 1968. Accounting to these criticals, a presion is considered in the model display deal in the content of the content

surrounding environment or to pain if doctors detect no spontaneous movement and if the brain shows no electrical solution. This machine that helps determine the moment of doath is the disconcincephale graph. With result from electronic proper With installment amplitude as persons sough their installment amplitude in present a specific properties of the characteristic properties of the characteristic properties of the characteristic properties. As in suggestion of the characteristic properties of the characteristic propert

in decidence/file(gram (EEG), a suige resolution graph report Poppanding on the individual and his age. the EEG may detect asystems from 50 to 100 stronged Whim a person day. The breams gyrappes side welving and electrical activity drops below tee moreovets. On pager the electrically patient instants cut. Modically, a fire EEG indicates than deat.

and signals doubtes to unplug a patient is till-support systems or to remove any organs the patient had lated for consortion. Brody suggests that accence use the same creese as brain-file guidelines at the patient is still responsive mines brain waves or any of the life agrit, his is consicred to be naurologically alive.

seves or any of the life lagns, he is considned to be neurologically alive.

Some have suggested that the presence forlian seaves should be the most expor-



Foregoiding When is if o human being?

tant determinant in deciding when life begins. The brain is the seel of human consociosess and the controller of all othe organs. "Agrues Or John Goderning a profession of adolescent medicine at New both Matter of Deliver." The beautiful.

guadeline in an article for the intervisional Journal of Medical Edition He arguer that occurre should decide once and for a on a consistent standard for when the ands and when it begins if making about a medical definition this film taking about a medical definition this

on a consistent standard for when the ands and when it begins I'm taking about a medical definition that can be used at any sine. Coldering says. "As some port in little, a live and active brain is present."

active (PSI) is present.

Because discrete description windly of the control of the nervous system are in place to set the large of the nervous system are in place to set the large of the set of the set open many at some defining of the set of the set open and the set open and the set open and the set open and the set open set open and the set

can com stagether RML or spind-opencial commission of the commis

NO MORE MEN

THE BODY By Dr. Jeremy Chertas

thin a population of male and temple armines happily repaid urant female arises one who can rated on

men. The lief is the most widely discussed. place d'info an egg lo develop again info a with its half riston of genes, into a single before proceeding to normal ambryonic

part of the embryo, while the mother pro I doubt it. One technique being used

What has fas to do with plonno? I believe

to get the imphoblasts, the women would entirely disconnable (vet) but it is surely only a matter of time DO



MENDING MYOPIA

BREAKTHROUGHS

By Scott Karva

Robert Mucor decided to could stop fem. Oity requisitions required

15 sessons speced over a period of several

often results from such structural defects as

objects, the oliany muscle relaxes and the myone: This explains why students

teedback whenever the colary muscle of structural malformation. the overwhelming compensate for physiological conditions.

to such a repost performance especially For aloning both moving and stiff images.

encodes the image-in either black and opecal disk. The recordings have a 13 edge technology is not cheap: \$30,000



Atago Building, Nish+Shintiashi 2-chome Mesto-ku Tokyo 105 James 100

DEMYSTIFIED DATA

ARTIFICIAL INTELLIGENCE

By Owen Davies

using most of them is sometimes as complicated as it is hatotal Lately though companies have begun to demystry distabases if you've ever had an important question you couldn't arrever it's a deve Ordine distabases are computerized with a tatechone cell. All citakes is your with the phone lines, and a communical an astorishing viewly of logics. If you metauranta in Delias, you gan find it in an rapidly There are more than 3,000

therea they are, they require users to follow questions in precisely the right way before curse and query languages can be curabases over the telephone. There are hundreds of them, and even the largest

And they are seldom cheap Delabase new ordine services: Essyther, from Tolobuse.

And if sparse you the need to learn dozens (1-800 EasyNat) You can tell EasyNat for help from an expert system that own study your question decide which database you to it through a series of well-planned merus Essythit's corrector automatically EasyNet charges a fixed fee of eight dollars per search. For this, you receive up of full-next newspaper or magazine articles If those is more, you pay another eigh

600 databases. It charges for answers to

time in use. The emphasis is on the correct available in one place we gan do enomplate.

needs pajent information you would have had to on to Delon STC. Percerror more or less unique piaces of the puzzle individual needs " he concludes "You'veriturnation regroups in sat a law years DO



THEARTS

By Mitch Tuchmer

(Tony Curtis) charried together, hating order to survive For its year, 1958. It was a bold alegory of recem written oseudonymously by Nechick Young, a blacklisted screenwriter, and Harold J. Smith. In History the Pacific (1966) the tale about racism the American G I and Tooligo Miluna they must cooperate in order to survive. The plots yary slightly, but the allegory remains. And now those is Everry Mino Willis.

clostrowed much other's anoral: they land

forced to cooperate to runner. unusual Literary classics are especially apt to be remade. There have been helf a number Transpositions from one game to municular Pictures change period and were rife with remade melochamas in which black actors were subsequed for white High Noon became Dulland Battle Seven Samura: The only aspect of Star Wars not widely publicized was its basis in however is Forbedden Planer, a 1956

to translation to SF? in a word, the smplast the purpey the cuest, the battle most Moby Dick is a ristural. So is Alambo The second great dategons of which Formy More is an example, in the allegacy With its schemese, unwersalist verwick OMY

human religions and the effernal webber culture period or planet may change the story in which the members of one culture Forest-falls into this category What does dames in which the broady assumptions of

The emmodele source material for Energy Longyear, published in 1962 in a collector

Dar Boots Peterson Allens can be frend

mentand Inwels effortlessly through space. in competition with the Dracs, the only on-one agest cloghght, Dawdge and Shigan must make a truce and that truce becomes understanding, that understand

After certain production difficulties. Boot was heed in his place. Person gave had over road in his Mo.' says scroonwriter don't want to know that this is a message picture. Khenara continues, "and I don: because riisn't, but the story ultimately is

beings. We must put them into a different the scales, the strange body he is very Komers was aware of the similarities

when he began and he has since been defend to write SF picewes of binor stanciseds You can do Namkif as a Wostern Tox comes to lown to visit his mother it's easy anything. What's important is that science fiction enables us to look at things in a new year. If we did this story about an be called exploitation, but science fiction objections from throng. We seem able Ones or Hall in the Pacific We could go site except dramatic continuity DC

MOON MYSTERY

STARS

By Terence Dickins

Are the Apolio estimitate bought hazily a tori of use material to complete the register of the material to the reduced of terminating accept answer to the reduced of terminating or terminating accept answer to the control or terminating accept answer to the same free the control or terminating accept answer to the control or terminating acceptance of the control of terminating acceptance and the control of terminating acceptance and the control or terminating acceptance and the control of terminating acceptance and the control o

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system: if you undestand how these less formed ben he origin of the made is something that is going to flow from the Webheld director of the opportment of terretation regreters in the Carrego Institution of Websheldon: it Washington DC amend at his conduction after principles ring the mind destated computer amuses, yet of the terrespond of the planets Minos Versus Mass and Earth

Venus Mars and Essiming consideres that resided some 4 6 billion years ago. Then the sun was a much younger home six having use recently continued from a massive cloud of dast and gas. The young juins coldant energy had pushed the lighter gases from the inner solar system.

affected by soler energies settled into an orbit assund the sun. Wetheril's computer similations from Wetheril's computer similations from 8. auggested that he heaven particular costilocod gradually into increasingly larger clustes of matches as they bumped into gree another in their orbits assund the sun. After allows 100,000 years a house paggrand.

years the disuperate of adminisch had become concentrable als a event of soil storm concentrable and a event of soil storm of the soil mountain state bodge coding participation. Through represent codings on the processing larger bodge professionary and participation of the series of Mercury or Mark. Some of these objects might have been pagagantain heaving as much as three present in events of their Mercury or Soil series of the series of their series of the

Barth became part of the planet. The heat generated by mypack would have melted substantial portions of whatever his the nascent planet. Detens from both the seath and the impacting body would have exposured and spitiasted into nearby space. That could have happened in Earth in the could be an expended in teach orbit says Wichaell and ever supply positioned in the more.

There is some enderror to support the theory. The Apollo moon nocks revail to white some of the know moon and in the white some of the know mooned is from an unsentify source come does resemble the earth's crust. The uncontry decreation and the projectals that fit our planet. So for the suitury has recoved generally

so the study has received general good involved from planets your felst ("I've gettern is let of inquests for reported and no one has a gruped with me so fat "I in one including Withers!, there she notice has been softed one to and but all it's poposition that her years from now, planetery specifies with the regular over faul theorems but I hope not.

four theories but I hope not HALLEY S HOT LINE Science writer and america

Field Soliter's styring to get momentum behard a green-ost movement called Dark Blass the Comal Hasby or DSCH Sheed is similar to get monopatities to sum count gainges are to sum count gainges are to sum count gainges are to sum count of her light patients in the cast or light on comprising among the case of the sum count (but officers) and the cannot (but officers) per year) For mode cannot (but officers per year) For mode cannot (but officers per year) For mode lengue, Department (DSCH Box 1984). Raccion AC 8053 DO.



Our moon. Where did it come from? Theory number four profits a head on collect to CAMA.



THE LILTIMATE BRAIN TRIP

port Douglas Sumbul set out on a ma hance the motion debus expension. The special visuals—who over the years has he expense to such moves as 2001, Choic findous florid And and Sain Plex. The Motion Problem—avealed new maps system called Showcan.

While Interiory with the five speed stendard of 24 houses gooded (fight, Minable discovered the firm morn policies ground property of the prop

any hold potenty part of the might object the years, and to the housean offers well highly resides in regions. To make without the second part of the part of the part of the part of the widelines accompanied by a superb source person. The widelines accompanied by the part of the part of the part of the Mones that Turnood would also use much 10 drowest competed above the first bett of the first one as lost as properted in the part of the part of the part of the part of the properted above the first the first of the part of the part of the properted above the first of the part of the part of the properted above the first of the part of the part of the properted above the part of the part of the part of the properted above the part of the pa

What hand of effect would a Showsoan horror move, for example have an audences? A Findey the 13th, Part 10 produced in Showsoan would probably be too exergowang. So would other firms with an overabundance of violence. Showsoan may not be

public reaction to a move site instante stress and the femple boom, if Showscan were used one day for goty or visited in their could be a claim's from parents for a new lend of rating a fem. Today former famile spaint that listes a range wiring a powith fearl problems. Will declare suggest this some patients with Showscants was a nation content enter 27.

Browson also creates a feeing of opposition in the subsection of the common and the common of the common and the common of the common and the common of the

time of a technology. Streeting high of applications outside if world of entertainment. Bit not suppring that Turnsick his be world of entertainment. Bit not suppring that Turnsick his between approached by the defense establishment, which is manifeld using Streetin for its own purposes. So for Trumbul has did all of work on battlefeld simulations but acknowledge to Streeting to book be used as enter management medium.

system is a leading list. Showcarri creator own product in the list hill prove full risk put and account invested on three on a leg green with powerful powerful provide support and substant or the green with powerful provide support and substant or the green provide support and substant substant and substant substant substant substant substant device community a Kerneth Rimberty professor of substant provide of blooms risk with substant substant substant device substant substant substant substant substant substant down autistic may be considered by the substant substant down autistic may be considered by the substant substant considered substant substant substant substant substant the substant substant substant substant substant "This part the substant substant substant substant substant substant substant substant "This part the substant s

CONTINUUM



DOWN ATAL THESE

A present a prepart woman who warfs to have her fetus checked for possible birth defects has little choice but to submit to ammocrates—a technique un which ammode flad is not to the fetus of the fetus

amnocentess—a techniqui ni which amnocentess—a techniqui a windulam by inserting a neede directly del the lateral Admough usually sale, the seathed does carry some risks including infection are sportained, a bordon when procede in adventishing which the first self.

Soon, towever there may be a norminative able to start self.

Soon, however there no a nonnewsive alternal or innovative alternal or innovative alternal or innovative alternal or innovative and the second of the second

Knowing that a few total its are elways found in the sher's bloodsteam ("they joint their way out of the Own." —Go

GOLD

Prospectors, take four picks and sho ancient maps and your electronic sen vices may soon be by the simplest met.

by the simplest make dake by the name of Blooke by the name of Blooke deepes which according to B Gastiopant Burvey, geometro-bookgrass John whatever and Namy Paduth name of Namy Paduth name of the logs above large manner dup above large manner dup to backers in New York. To backers in New York.

icters in New York Harhelt were tolerant of ry metal poliutarità in the r Could it ba that similar ena might show up in caston with mineral caston with mineral caston he spent more.

that occurs of B cereus were up to 100,000 times higher in the area over minoral deposts than they were in surrounding topools. Even the depth of the one searced to make 1886 difference in

depth of the cus seems not be considered to the considered of the considered to the considered of the employment deposit and the seems year Perdun. I seems to the considered of the perfundance of the seems of the total perfundance of the total perfundance of the total perfundance of the total perfundance of the seems of the total perfundance of the seems of the total perfundance of the seems of the total perfundance the total to

-Bill Lawren



Cesser a pecificinal suns spunde second gebon Authorities des gesteurs spundent spundent gebon



SCOTCH AND HEAVY

couple of million dollars on a system. Its upon the novel before they are versed to the

provement, claims Sector-

What is now proved were



Savs Reggie Lester of the



You wake up in the right

you creete an animeted

coordination of many different











YAWNS AND ORGAS

To the claimay of executive or CBA-CBOT, the international chup company baland in Switzerland, three Canadian psychiatrash from SI John, May Brunseck, claim that lour of their patients who look the antidepressent chup Anstresi constantly expenenced organization of their strong yearnot—enabler Day.

warried to or not.

No one seems to know why, end what's all the more puzzling is that the more common side effect of fishing antidepressants is a decreased setual capacity, not

an increased crisi.

Nanothelesia: the four care studies were reported in the Considers - Aumail of Psychiatry by Dis. 1 A. Kapha and J. D. McLeen, of Reported And Reported - Reg. G. Psysylvin, service psychiatric at Certificate, inc. They stress that their paper merely properties some curriculal findings and air not to be taken as a full-

Subcomp taitable mor

salgate moint than an class of vehicle on the according to a Purstavessity statly. "The in the bag-car bully or th geting buck may be maggieraten," concil saftic-salloy research Methed Conetty.

> Cohurny set up nodeste amenias on busy histerie bads in the Purchae wonly not wassinged the hatho low More then 10,000 cam you froughe wine is conded by he carriers, then the videoape was studied so that he incoderts of ballgating looks to talled.

> > rearry-around rest.
> > serty explains: "yet in study they want responsion of the ballgating." as the discoult from the ballgating, as verticals typos talignated auch more moderates speek.

causes accicherty advises stay back at least

for each mile per hour of driving speed. One major reason many subcompacts tagger. Dohorty theories, is that the ornatier cars have

is that the emplier cars have experienced and in foods, which courses their dinversity overestimate the distance to see as an about of them a thus mackenterity incipate. Then again, perhaps and agreement also just be out in the works According to Dotherty. The well-see most often tadgets in the out in the perhaps were extremely as the control of the termination of the control of

leagneon is more reporters than knowle whitest

"Mis do not know what to do with this abort Mis, yet we yearn for another shat will be elemni"

—Anatole France lest during the nine his before he chave his reads no man manages lisis as well as a tree



Notibe



Drivible corresponds to improve

The interplay of polor and perceptors For mitarios.

"Of it is possible." Marks

-- Christiaan Barnavi





Oppor Wilde

2. Stock Ausner (1982)

-- Ben Boyn

D. Maria Hoom' Maria Hoor





Can men have babies? Research indicates they can, and volunteers are already ining up for

MALE PREGNANCY



BY DICK TERESI AND KATHLEEN MOAULIFFE

There I was After all the fruit SINGLE WHITE FEMALE, 38. buffs in singles bars and the seeks warm, nurturing me disbelieving looks of his temal SWM 25-32 Let's have friends, Jake found himself in betty iff pay the bills, you staring at his dream women. carry the child Looks not im-She appeared in the form of a portant but ample abdominal blind advertisement in the cavity a plus Send recent personal columns of The New photograph and histocompa-York Review of Books: tolkly people to Box 20035

PAINTINGS BY ELLEN GOING JACOBS

Ariast, Jake thought to himself as he composed a heartfelt letter to the accrymous advertiser at Box 20035. I just hope she doesn't wast on retural childbirth.

Okey, so maybe it wan thappen quite like that. But it will happen. Someday a man will have a baby.

Arrests a male baboon has proved that

maks can get pregnant. Male mice have alloc camed believe. And the medical institute is fised with two dozen case histories of women who became pregnant after receiving hysterectomese—proving that you don't need a worth to certical halton.

womb to carry a bibby Our fethous hero need not womy about natural indicath, flough. It will be anything but raised. What were beling about is in planning an embryor for a man's abdominal centry, where the labus would take nounch mant gove to sem, and be delivered by an

mant grow to som, and be delivered by an operation or marke to a unalization section. But we're getting alload of our story. Pubtio anderendo of mele pregnancy devel oped as years ago this list to a comunicable both in New Zealand. In May 1979 Mersperid Martin a hearty-mer-year old Auckland women who just eight months carber had underspone a hystolocolomy, gave both to a to proper proper progression.

Copyright © 1965 by Dick Street

healthy live-pound bisby girl. An errant fortified egg had lodged in her abstormer on the bower, whose it received amough trutrains to grow to som without the aid of a users. Dr. Peter Jackson, Marrits gyracciopel, reportedly sidd pure sids it had the both remarked with consorbied for amont to be made

provided it was possible for difficant to the macro program; by placing a fertilitied egg on his bowel.

Tablacis the world over announced that

sony studi a riene in many men. Scientiss doing work on the outring edge of human reproduction were benegled with latters from men who warrand both motifiers. Some even transposals. Dut others were conventional men who simply warrand to experience the less of production.

With the bodypound, Omy decoded to these out the outerflic possibilities for mile programing Whit we build may suppressly us. The New Zonder date was not the finite evidence for make programing. Such in the mediatops for Contil suppression of George the Continuation of Continuation of Continuation of Continuation of Continuation of Continuation and Continuation of Continuation of Continuation for Republic States of Continuation of Continuation of a furnise balance for the Continuation of a furnise balance for the Continuation of a furnise balance for the Continuation of the Continuati with blood veguels that hangs down in front of the missinness like a protective apon. It got adequate blood supply and nountment. Japobsen reports. The with vely moderate chemical support, the male beboon was able to carry the pregnancy toward term.—That is well post flour months.

moderate chemical support the mate beboon was able to comy the pregnancy towages form—that is well past flour months. This exporting was to the property to the hardy independence of the entangs. One long to the energy of regions is a satisfy to produce a pacients, the vascular organ from comments to the produce of the produce of the property of the produce of the produce of the produce of the produce of the protes stated to be able to the produce of the produced of the produce of the protes stated to be able to the produce of the material of the produce of the produce of the material of the produce of the produce of the material of the produce of the produce of the material of the produce of

pacification of second origin has terminal deather to the united and consumeration from the mother On it has coast to the terminal pacification of the coast of the has the pacification of the available, opportunities, and perhapsises on an information origin as U.S.A. Insuperconforming in Registration Gorde puts it, the passental is an incoming beautiful to the pacification of the pacific passes. It is seen of an afficiar the original passes the pacification of the pacification of seen may be affected and insufficient committeed and running to any seen experimental original passes and experimental original passes.

betters are unascal appriment that commanaged the abstract or the time is early an experiment of not teach in the birth or the light extra properties the territorial properties of the time abstract carried the observable abstract carried the extraction of a immediate basic carried the of a maje basic or the embryo statement of a maje basic carried the seat in the disease. The embryo statement is the maje to a m











section are distincted by the section and the section of the secti

Yil deel with the morning sickness 18 accept the lower brokenhe 18 broast letel of receivable yill shall place have got to go tive got enough ticuble with cramps.

**Texasy Fierballin, playing the company fierball in the property fierballin, playing the company fierballing playing playing the company fierballing playing play

"The closest thing that five experier to childfurth has been lockery the

They say the pain from lackey latine approximates the pain of heaving a child but I've newer heaved of arrange actini lars have a kadney stone on the mooth in guidelinks women for doing lins pill and the a bit derivate of that cere closureses that mon have not been pill to experience with their children. I've and a thorthour to boom with inten. I've and a thorthour to boom with

"I'm speechless Heavy The Fonz"

The representing the sequence from the playsections serveral years ago, if the playterior Polic Solge is Solat, I schoolly played in se aon of a mark who gave beth to me, accelless to say, at the latter if second lar is footal factors (fluit here we see in a per several behavior in that is assemed both.

"Off Bloodway's The National Hase God forbid! Men Have different brengths Metherhood is not one of

en gwing birth to babias in the twentyit centary? I'th initiate hold: Sount Benger, beet-selling author of Dr. Benger's formune

Strent Benger, bette seller leating of Dr. Benger's Institut Power (X normal payeasan period for a beboon is Hertz 'delivered' the fetus. Had we worsted. to "Jacobsen says," we could easily have bryonic development was normal, and the

deceased were by no means interested in concerned with prognant women who do velop oversan ganger. The overes produce nos without causing a mecamage? "The question went whether a main could be a what stage does the embryo make all the ways. You gan go sheed and take the over many babies you lose. Or you can transfer

velopment. That was the marvel of our dis decades later the study remains largely obished the results. It was one small part of a asked not to be identified. Tim dubeum of developing and first using ammodertiess, is notic fluid from the worrb to detect chro mosome abnormativin an unbarrichts. This was in 1967 Today physicians use arms

Jacobsen is the only abentist on record macky in certains. But he says that similar amanders and other amphibiars.

In a server of experiments in the early Sixlands Oxford University transplanted thouse

54 DMNI

nove of adult male mige. Kelby out the best veloped in "perfect condition" for 12 daysabout half the normal gestation period for a in high concentrations in the lesies do not

strange pregnancies in women. According became pregnant despite having had hys the uterus) didn't result in the britis. Bey

€Women without uteri have given birth. In these rare cases the fertilized egg works its way into the abdominal cavity. which expands to accommodate the fetus 9

fourth-case New Zealand's Margaret Martin

having intact uten have given both without dison refers to embryos that have implanted orthrip can rupture the tube, and the pe in rare cases however-about 1000 have-

been reported to date—the feetiged east works as way into the abdominal cavity which can expand to accommodate the of those women with abdominal pregnancies have accusing given both to healthy between t madificat condition to decrees in July crowing inside the abdominal payty In Auwomen suffering from stomach cramps. T dix: Dr. Potetta toks the Associated Press delivered, the "appendix weighed three pounds five ounces and was named Jo-

land of prognancy the last manimother will as I mean creatives an A-pice to be able nancy' Even so Martin's pregnancy wasn't was pregnant-her breasts were lander and madagross will obviously by elemented delivered two healthy between that theyp-

guiar organ, contracts and shurs off the blood pregnancy, however do not constnot and postetrios (pythode puter), bleeding may be Which is not to say you absolutely need

normally. He case the case of a codesizue attached to its mother's intestrie. "He fried

say a man wanted to have a baby so bad h men to carry a baby? After talking to Shot See Jacobrean and other recognic bottom the Consider the Consideration of the Consideration of

The case has alternatives to the scores in Fed. conception could late place in it was required to the conception of the

the interpretable however because it is been made craited a wester to consider a lower made craited a wester to consider a to consider a consideration and the consideration as it for any insustrating of disk prescribes as it for any insustration of the discussor period attended to hear Copres use that the formost secretary was sufficiently in place attended to hear Copres use that the forper than the consideration of the consideration of attended to the consideration of the consideration of the consideration of the consideration of properties are souther than a form consideration of properties and consideration of the consideration of properties and consideration of the consideration of the consideration of the consideration of any "Maybee for a fort" Definition stee."

ing's well be hell when the make geth a risk feathers. The body adjustation of Corporhaps the embryothesis in a widness of physiological shadows the behalf therefore, as to physiological shadows the hard therefore, as to propose the physiological shadows the hard shadows the shadows the hard the physiological shadows to be the physiological shadows the death appears to be that by a coloronic shadows are page 11 generated the part time of an embracial shadows are page 11 generated the part time of an embracial shadows the proposed to the

produces a lot of the steroids that are neceasity for foral survival " in visio ferbitration or embryo transfer hos

smally unless believe methylographic har morries or in humania, male prepriety, at morries or popular deel today in the medical de balanthement. This is an utilitate hypotopal salant darry Hadgen, who is the exemble of receiver of the Bestern Vergman Medical Schools, gives institute for Reproductive teapon claim on the Linked States Hodgeni ornanicipalisación to male programary fro usado the word cutanique in electrica tiva brisis fuel me word cutanique in electrica tiva brisis fuel control descriptions of the programary from usado the word cutanique in electrica tiva brisis fuel control of the control of the programary from fuel from the cutanique in electrica tiva brisis fuel from the cutanique of the control of

hispano clinic in the United States Holdgerin man-discount to male propagation, quality to the second of the se

Dr. Asse Helati on export in obdomes registroy at Stope Remarkers Maccio Centre et Las Angues autor Tiesters Noval Centre et Las Angues autor Tiesters Noval Centre scale doubt de derigen of Introduced August Centre Cent

Deal Jacobsen Bols that the risk possel by an abdominal pregnancy has been goally eaggered. The condition, he says lends to be surped logother with the much more common ectops programary in which the festilized egg becomes lodged in the festilized egg becomes lodged in the logother.

Perhapsi resulcible in abuse of the technique, to use on men 561, here will be man who want it. Who are they? What knot of men would have a bely? What knot believe originally envisioned circl prediction of the programmy ever became possible? If make programmy ever became possible? More yet, the fact of programmy ever became possible? More yet, the fact of programmy and possible in the programmy every became possible. The programmy every the control of the programmy every first and programmy experience everything a woman can experience everything.

They re already hring up. In July 1994 a group of at least six male-to-female trans-



"And what appears to be a pretty girl is actually a high energy least holograph."

FICTION

It's always the same dream, of flames as red as the mysterious flower

THE DRAGON SEED

BY KATE WILHELM

Bruce Enfeld has a seat on croso his actual destination he ethous or he fact. Noct is no reason to look her up. soywardoscop are hurrying extract his wallet from his another cattle car in the sky ling to him He a tracked because he over a sweater on untuly remost desperately that he is not certain why he is going. I toned, olive rain, aiclast over back. Not to see her, he tells - it all her pale her pulled - cause in his head the comtermed arrays, and he wishes - back correlessly with a stone - passon is continued and he he had taken the sam Lucate or a rubber band. And theepiece from his poplet be- trice, elegant in a navy blue, her quick intelligence, her fore he cut his cost in the directmoken's suit, high humor her every creep of overhead bin He will wet his heels, her male and libs ax everything she reads of perents and an old frend or addy the same shade of red.

attention to her wonderfully made up eyes Beatrice has the lovelised eyes in the He twists and shuppies to age of Coty's eyes Pale lashes and brows, colo prov back and forth pushing their pocket possis plans from his or bise over The companheavy carts delivering neighbor and appeals he son of the two women is drinks and peanute He drink granefully when the crue, and again he feets huddles into tensor having stewardess puts it before embarraceed that he is call behavior met of the day them in his mind he is evering making it. He guips his that will be set as northwith. Cory ords by exterwith Boa. scotch and thinks of the Lua two-hour was in O'Hare, those and that a emberrace- rate in his ocen pocket, weeten he had a in his hand Cory in her years and. He wants a cigarette alpelay and finally he last lap. he say boots caked with. Brough he has not smoked tweety minutes to Eugene mud is many flamed what for almost a year. He thinks

heers, and Cory rowtke retarded or an near first 6. rest of the tric to San Fran ... fatters her face and chows Whitman had put his ad in PAINTING BY PIERRE LACOMBE



the paper on Sunday and on Monday morecloorstep. Writtman was a large muscular

She shock her head. She was tall alrong early meant that she wanted to work. Whitman thought studying her "Where you live?" miles or more away. How divou met here?" She panted to a bicycle learning against

He would have to teach her everything. but then he always old, and come tall, they

year he had to do it over again He showed her how to take chryswitheblooming plants. She watched him allerdy If for years. He supervised for a short while before he went off to get his other tasks. glance of her work. Notifier of them scoke At ton thety he told her she could have a could not definewall between kidding and deactive or a berfer that was meaningless was a metake to hire her, he thought, and

telt a strigt self-contempt as he recibed he was shiften his own problem of econom-"When you get frest," he said bying to soften his voice, because she looked fright Float a few manutes: Chay?

She resided and turned again to the chrysanthemums, began to cur tast "Cory, take it easy get You're doing a line

She looked at him again as it twent to measure has words, to test his truthfulness And then she smeed, and he know he had pretty or anything, but it changed her. At first gan to sotten, and very slowly like the openrigid a tight hard bud, the softening, reles-During her lunch hour he saw her war-

membered that he had meant to show her no can

around when he had time. There was always too much to do not enough good people to time menager, but he resisted. His had triad first. No one size did anythro he way and when they needed doing not when the Valchair, might have worked out, but he had gut after a low years and opened his own numery on the other side of Eugene And business was expending and he William ment Payrol taxes ordering inventory at

the greenhouses or the long rows of seedords who discovered that Cary had left

> He was as oold, as rigid as stone

as he fistened to Frank's voice, like a the victim could suspect its presence.

had come to the nursery. She had dropped Whitman tried to see Cory sitting quath at a clock immersed in heliony lessons or math problems, and nothing came. He shrupped "Her business "he said But Don en scrietines did hings her parents were reported of until too late. He called Cory's a history of failing and that the school coun

ter's room on her day off from the bakers' and set of querty patrile. The community not was no spattering of books or records or in pots, coffee cans, milk centors, rusty vegemblector Symbol cars hiteration lefet was self and even hitsend through

referred to 6 span

leaves at both windows A heavy ran was driving leaves from the

trees marshaing them in untidy beaps. Mrs. Davergort had come in wet and cold from the weekly shopping and now sat direkno polition, thirtieng nothers, content to small the green smots of growing plants instead of contamon and variety and yeast. When the letoner buzzer sounded, she got up to make night at her and of course at Cory Some-Cory's room she found that she had been was doing well at it. There was no longer any manage to worry of any over her, but still there

E only Raymond could accept her, sho thought at those times, that would make the without a shadow passing over his table forming along his cheek. Most times he avoided looking at her, and most times she the same time. He got frome at four-thirty

there had been something in her that drew

tries. Cory needed things, a new sweater were his money Each week Cory's chock west to him, to be deposited in the checking flying, ask nothing in return? The would yet "It's her turn to halo if one wants to been for closif cave a diarry what she does Sometimes Mrs. Dayenport fantasaned

them sharing a small house with a gender but it was frightering also because she stranger Sometimes Mrs. Daverport lot that someone had planted a sharp knite in her a lettle at a time, nextly dividing her into below. She progred that the kinds was even make the dooson about leaving with Cors or driving Cory nearly to be able to live with

twice and each time has left if without piece

ing the call to his hierds in Chicago. He sits, in a classifing coffee shap and starts out the window at fittle snow that looks dirty even before it his the ground.

before in the pround. He is made would take about Beatmon and he does not went to take about her He size in the sortine want to take about her He size in he saids called affect in the saids called affect. The above is object again, it is like the dish-filling sometimes tower in Severenth He seminitizes alrating at the global well of the house of beatman at the global well of the house of the dish with the providing her as if the webby the providing her as the beat, which he providing her as the beat,

'Lovely' she says "four company?
'No.'
'Have you made an appointment with a sporty ver?' Still looking out the class, one-

he no larger can tell which—she asks the custion so if she were saling for the laise. No.

A 747 role past the window, and he watches until it a otherner its own bayand the ceterplian mouth has shached salet to

You say you have inglarment. Mr. Diffield About what?

Degates They are chasing me, breathing filmes and I can leed the free touching me, spreading comming me.

Dispored Very interesting, Mr. Diffield the lights a cigarette and validities the tothe stroke culting saletties in first. Then ser-

ide cending in a column unit a draft hits it. He the stubs out the organite and is mildly surprised to see four others shready in the sultray off three quarters stact.

Yeslectly he changed his reservation, added his safe his pix brigane Balance did not ask way. He waites are exclid proton to be inferested but understands that the work lays has game without high the soluted games, then it did not proton be considered to the soluted games, then it did not proton be could be solved to the soluted games, then it did not proton be solved to the solute his way. The heart again has relationated when she saked how long he would be give

He continement are science-indiged his answer or even if he are even if in militared to take they both seamed to say. "All me about your marker," the doctor says bying to have a smile. "Not my insufer Not my lather it's Cory And I can't left you." Rhughly be shareds up.

And I can't let you'. Abruptly he shinds up and anathole his check and furnes from the celles stop. He can let if the his breeth on his back and he does not deer lam to lice. for fear he will see the diagonin daylight. He shows when that happens he will be look.

Cine marrier, Whaman wide up before

One manning shahalih wala up bulton dayagit islaaningto sechathin et of Driveriay he turned over indring comfort in the sewly patient of cy feet while issu own loot ware warm. Then he sait up Sieet. He patched on the callo before he reached that the light. They were already sharing about the weather conditions literating rain throughout the yalley roads closed, schools obsert.

pleasant in the data of the more and the more and the more and the calculation of the more and the calculation of the calculati

inch thick. For a moment he squitted in displayed se he stained at the toolshed brightly lighted He humed toward it the gravel divewas already treached us to smoothed out the imputation.

"Once What the hell are you draine here?"

Cut the imagination

"Cary What the hell are you doing here?"

She ducked her head and mumbled and he detay classes to her

"Head any out here?"

Her mother had brought for the said on her wayto work. She had heard he nan and knewn would turn to be. He stated at Cory for another moment, and then they went to work. Together they prured the holes and covered the everyteens and got to the covered the everyteens and got to the

By the interescent they had it all downevery through the product of the protect of the nutriery stack. In edit section of the nutries are set of the explanation of the nutries of the nutries of the servadine young sample look give the nutries of the servadine young sample look give the nutries of the product of the section of the nutries of the section of the nutries of the nutries of the section of the nutries of the nutries of the section of the nutries of the nutries of the word and after served the rate server. When men moded it have that the section to the

men moderal i well with proseful in the interior to the property of the property of the indep been with man at less the interior of dep been with man at less in the interior dep been with man at less in the interior of property of the interior of the interior of the inpation in the interior been with man and inpation in the interior been with man at less interior or and and are dependent of the interior or interior of the interior o



For tomorow's weather the clouds partly toxic with scattered meteor showers by lete affirmous.

She could not handle money or take or order or telk to a customer She seldom taked to the other employees she manwork seven days a week it was the only think

A few days later when everything was Why? You kingw her father gets her

You been teling me for years I should here.

Don Whitney was suby-three and had other and it was done the trust fund was employee of the enterprise

Bruce finish toos to comember 4 he or section. The plane is two frecis filled, arethere will be playify of time for several more she is an assessed buyer for a department

The freet is taken owny and omsenly a

he west to work for Whemen project had been accepted the resocution would be a meter of putting in the time it. modkups. He was a chemical engineer specializing in plant design, there was a

audion to that required muscles and ro med Helicund 6 at Whitmans The claimen drive near a shed a get noddyd and mo

almost mumbled and she did not look at

6He went plaser and looked curiously but nothing

more-and started to say A but decided to say nothing?

Bruce decaded quadry Cory moved on with the roots packed in drt and sewdust The roses came out easily Bruce learned to force them to make a compact soot sys-First size reversed to feel the rosebush and what needed cutting, what needed staving Her cuttings always grew he learned that

Frank welched her welk away "And how did you spend your day? Balling roses." He

best lays. They re-grateful, you know? And

is A side bet Shes a virgin Am Lon? Bruce was revoked by the idea of taking one he always saw. The thought of groping

Somehow Cory lept eluding Frank all greenhouse the one they called Cory strial spot Frank had in mind and no one ever

Leave her along. Bruce said sharply to do a day's work over soon, and her a dummy second in charge of a million-dollar operation Frank resented her more he like that in a couple of years, where did it special royally, excusing her from anything

Seeds" he said trumphortly "She card talk about moves, or books, or television or "What are they! "Decrease of License: My old man basualti

Bruce thought so too He had an moute to crind the seeds into the earth, to yell ou his business he reminded turnsolf, and wen

It was late afternoon when Frank wan

What he warred for that summer was or

dered over to Cory's greenhouse Bruge a storm would come up lightners hit the

If knew youd be the only one to plant thern Frank was saying "See that black Her voice old not carry enough for Bruce

to make out her words Frank laughed "Sure they did Where do you think dragons came from? Two wigos seeds like that and their own teeth. When

not in move. He was as gold as need as aproximi. Then he was talking about how

"When aman likes a girl and she likes him. ris the most return through the world to show

Bruce rever saw him coming but sudgreenhouse "Cory, you run along home he shavys applys to her like ran from the corne back

You've got no eight. Mr. Whaman I warm? You say another wand and I'm going to Frank parmi out blinking in the bright que-

ight. He called over his shoulder. "She's got a good time in life fun, that sind Bruce hursed back to the new green-

The next day when he met Whemen, he saw contempt on the old man's tack Bruce opens his eyes in order to stop

August heat lay over the land like some. thought, pulling up in the driveway of the





Huminats of Hexasinis of are making a varies our easily year our year with the

THE NEW ARTAND SCIENCE OF NATIVITY

LIBBIGE

Control of the Contro

The state of the s

SECTION THE DESIGNATION OF MICE I PROPERTY OF THE

 One tone warns that the baby has stopped breathing. Others sound when the heartbeat has dropped or when oxygen levels are too low
 ○



Brigham and Women's Hospita. In Boston, waren't so sure. Kimble had lost his premajor babble, and she chance for this one distributed good. The child, weighing a mere one and a half pounds, was been about 25 weeks after consignon. She was at the very edge of human vasiding, before which the cannot be suizament.

edge of harmon vability, before which the control be systems soon went away in a processing the control of the control of the Productive that the control of the control of order day obtains the control of the control of order day obtains the control of the control order day of the control of the control productive the control of the control of productive the control of the control o

oppor sugar seem syntamical samming mabean in a securina. Her heart stoppod twice. Both times a doctor did cardioparismonery residebtion. (CPR) by pressing his thurthol lightly against her chest. "I called the hospithil and the doctor sted his dich III her caller would make it." sags Kimsble. "I saw rushed night over there. But the! I

asked him to go over to her and say "God biass you." I know he! God would inrow it was coming from me! Choe as the heaping, she consinued to proy. The doctors, meanwhile, used every forthingue they could muster. They admesized antibules, clotting agents, and sinuse represents They used the latest connology to examine the bady's brain. They

Tought infections and wild changes in feet-The reconstitution of Codes of Sina Hospital in Los Angeles is shown at too Mindle Adult toges onche the my foot of a premature infect on COMM.



persure. They bught things they do'th even know how to explain, the the unusual awaling and blue color of her stomach. Days persend then weeks: And with the passage of time the child sunderchiveloped organs began to meture. Enaily after two and is held moratis, allow was setting enabled and in held moratis, allow was setting enabled.

passage or sim recording is creative/recording organs begin to make e Finally after two and is helf morths, she was strong shough to be transferred out of intensive care. One morth later she was ready to go homethree days before alse would have seen born had she been the product of a normal sine morth movement.

She's come a long way," said Kimble as she prispated to take har belty-home. Flori for way beginning she was not suppleed to live." Indeed, from the outside the child seemed to merit, her name.—Victoria, an horrage to the victory over death.

Victions is one of the quarter mileon president bease from early saw of word and bor-eleting farm a residution miscontain on the beautiful mileon and the secondary of the letter in the series of the

Spirite by the reads of the profession of the spirite by the control of the promotion of the spirite by the promotion of the promotion of the spirite by the

portrait of intergalactic operantipe.

"In absolutely a product of the Space Age and microprocessors," says Dr. Lu-Vern Papile, director of repraelology as the University of New Mexico. Waddood Center The plagness in the last discade thas been absolutely exceeded.

Dr. Brazboth R. Brown director of neonatalogy at Booton City Hospital, agrees. This frontier of vashifty, she says. has moved back in the Fittes, It was unusual to says a thousand-gram (2.2-pound) preenne. Now they survive all this time.

Indeed, surveil rates when oppored on one and dap have been range in every cell egypt. When't years ago more than 60 pellored of all proteins design and the foliage clied one that earn percentage native. For surveying the surveil dut it has jumped large persents, the surveil dut it has jumped seems hostificage—alon, as consider large or stayed of the carry, deprecing on white the contract of the contract of the studies you must be breakengly enriched below are remaining floating though contract colors from presentating and account for colors from presentating and account for the colors from presentation and the colors from the colors from presentation and the color from the color of the color of the color from the color of the color from the color of the color of the color from the color of the color from the color of the color of the color from the color of the color of the color of the color from the color of the color of the color from the color of the color of the color of the color from the color of the color of

in For most of human history of course

given up for dead. Then, in the late rapephane Tarrier got an idea while visiting a Paris mo Noticing how baby checks were kept warm and alive in incubators, he asked the zoo staff to make one big enough for a child Volte-the world's feet warmer mou-

pital displayed the incubators—babies and al-at the 1896 Berlin World's Fee: The accalled Child Hatchery was such a hit that Dr otes, displaying the hatchery at exhibitions creed and arrest Finally he artifed near New

making Baby Exhibit. The show remained open until World War II secretarial but has confited with sound housands of hopeless' preemies and adney's work influenced Dr. Jufus Hess, who It was Hass who eventually preneered the practice of raving owners to preemies, dra-

was respectory distress pendroms. All that riarts afficied with a spent two or tree days.

Brigham Hospital, examined victims lurgs they lacked a scapy coating, called surfactart, that kept king tissue plant, much as mark oil can sollen a store. With surfactant like smooth-working believe. Without I they

resized their gargen augglement was som

prevening the reins from attaching and

oxygen dectors finally curbed the op-

demic... but not before thousands of pree

Then as now the leading killer of preemies

There were a let of aborton attamost according to recruit/oget Midred Stahl men a pioneer in the field at Vanderbilt Un-

Eventually a former Air Force doctor derifleted with continuous air pressure while Seventies a majority of respiratory distress

sterling up," says Dr. Jerold Lucey professor of pediatrics at the University of Vermont hear a look then a whistle and soon averything was in motion." The progress was so Pediatrics formed an entirely new medical

griding ineights into problems that accentate for instance, Dr Lui Ann Popile of the Uni versity of New Wereco startled the medical that some preemess died of bleeding in the then 1 500 greens, elocut hell of whom sked and the pome cause of peretral paley and

By the Severties it had also become common knowledge that about a fried of all pear the heart directs blood away from the tient ductus arienosus (PDA), can cause

The standard treatment for PDA in the that a body chamcal called prostaglandin vanous teams of scientists used a chemical

Finally in 1983 the National Institutes of involving 421 preemies, the recovery rate of high as for the untreated group. So positive were the results that this year the Food and Drug Administration approved the drug for



'Relay It a my publisher

These advances, mossover have accurred for in proemie survivid the modern neonatal premature babies represent medione's list

We're not here to create something super or to intervene in negure, "says Dr. Michael Epstein, of the NICU at Brigham and Worn

er's Hospital in Boston. We're just trying to help with the functions until the beby comes At first giange the technology in the room

seems to contradict him. A baby girl sleeps in one plastic incubator Nearly four months premiture, she has no fewer than helf a clear plastic tybe cames nutrients to a vein in her left ankle, another drips medication to the respirator behind her into her nostrile "hight" the respisator and breefile assured it They may be completely paratyped with that the respirator can take control, forcing

Three wires lead from computer-driven monitors to smell plastic bands on each arm. ing series of green numbers and graphs beby's stomach. This transoutaneous disgen monetor beats a arrest gretch of skin and blow of it first nests energy virtigin risks

spots show where the monitor has been blue light. Doctors have found that the light brenks down the old red blood cells that the

"Here we cas," nave runse Greechen Law gis of week she removes a tube from the tube to the base of the needle to withdraw a blood sample. In a few moutes she'll have blood. She takes less than a tenth of a tea

more then a shot glass of blood to draw more would necessitate a transfusion Lawfor explans that the vast majority of believe also sees are moderately prema ture-31 to 36 weeks pestations age and 63 3 to 5.5 pounds). A small percentageabout 1 percent of all beths-are very prefrom 24 to 31 weeks, their weight, from 500.

finy ones who require the most care

As Lawhon speaks, montors in the back warns numes if the buby skops benefiting (The condition called apress arries be coed enough to "remind" the lungs to broaths) The treatment: Tickle the feet to make the body siort again. In senous cases caffeine Other alarms worn that a beby's levels are too low. Some of these lude are check the babies, then reset the monitors

arm. The buby trees to acreum, but no notes The baby lay in a frog pase-leas solwed on either side

of the head. A fine white fetal hair

covered the body. Her skin wrinkles around the joints 9

comes out. She copilars that the breathing prevent them from vibrating and giving voice surreturness orbitatives encounts to disease from A mother who has set owen both as

meters daughter Shi seduted she a barely referr is 72 hours old. The result 5 of the 14 while ment of the 30 receipt extents risk to "Districts" she says weekly "Is it okey to fact. Perimen says that using panouronium "Real free I says a nume. The mather tentakely strokes a leg, afraid she might break to brain hismorrhage among preemies to t. At the nurses unone she careases the

biby white her husband stands behind her Carol Caroloso rocking her beby a few feel smay Her Instansaryanway spary" but with Dr. Epstein walks in and recognizes Ca data from two and a half years ago, when "How's the first one?" he sake

"Oh, free Of course we went to give him No returne? says Epstern in mock protest. "We have a firm policy of no returns"

At the other end of the room a nurse disconnects a byby from a respirator "Cute! The baby tests his liberated vocal chords

have come through the first critical low months. The babies-no longer connected The atmosphere is brightened by stuffed But if the NICU and mid-level care nurs

the late Seventes recognized the damper of hemorhage all they could do then wes

portant feature of more mature capillanes

Blood vessels in the ackit brans mortan a

they swell or collapse-sometimes arough

distress syndrome is most severo. They

perhanen As transferent Berimon used the

applied. The next step is to find a less now

Of course there might be fewer hemor

rhapes if preemes did not have to struccie

seems to take the strupgle away At first

works: Conventional preame respirators

deliver about 50 teaspoon-size putts of an per minute, this one pull's about 20 times

Last summer however a Washington Un-Using an ultrasound probe, they measured



in Principles mythology, which formed the foundation for the Grook painthsor, the goods Euryman spring forth from Chaos and squached the serft from the sky. According to the Judice-Christian tradition, God centred the universe in strings; sky modeled man from skip, and

woman from marris no.

In the past we used these mythe to help supless the personal mysteries. Where did we come from? How did the universe come rate being?

did we come from? How did the universe come into being?

But as commology, the mythe were flewed. Almost all the stones divided creation into separate events. Feat the universe appeared. Then man was born. Yet nothing a rivos from rething, All of lime and space are a continuum; creation.

see and space are a construct, executes
a an engoing process
Science has learned more about that
process in the last 15 years then it has in all
the generators of frumen history.
Radiotolescopes and space probes have

renderectorpes and space probes have fad us the newhork or consolers have helped us to enabled them and to test new theones. As a result, we now uncleasted the patients of creation, from the first lew members on the universe of the supportance of the universe to the papearance of the first thingspeared bot they. Every-like on Earth II thappeared bot they. Every-

COSMIC CREATION

BY OWEN DAVIES

A burst of matter, a trebail

of gas, and the infant universe was born. But what happened then?

PAINTINGS BY HELMUT WIMMER

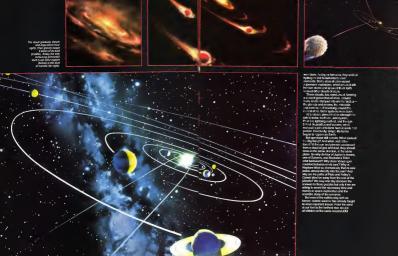
The Big Bang (near right) created to any alexents that green in the first state. (readed) and constituted to force our saler system (above). Then head and light wolded organic compounds who the molecular of the fire right).













While sperm and egg may meet in a glass dish, and frozen embryes can survive indefinitely, the first human birth on the far side of the galaxy will still come from a mother's womb

INTERVIEW

ALAN TROUNSON

proof the begotal run by the same of the United to Chruch, les in a resident tell section of the United tell section of Metabon Assessment as section for the section of Metabon as section for the section of the section of the section as section for the section of the section

et glass-dath conceptions and embryo freezing, the high noch accountermistic of the artisaptic plassaminas so hyboid of Amenican nocipitals are nowhere to be found instead, a modest gift shap on the ground floor safe libro and roses, while relatives cluster in a conteil lottiny for mess of that flowed once sperations.

in a contest lookly for news of that houd chas operations. Like the hospital riset, the city of Melbourne is a puzzling paradox. The capital of the date of Victoria, Melbourne is a curous motivar of the date of victoria, Melbourne is a curous motivar of the date and melity and represent presentally secure.

PHOTOGRAPH BY LEE McELERESH.

orating in keeping with inaditions statiolabed during threaded Quarth Velocia and Methourne is both the most and the least labely place but the world is out Will centur. On the one hend, that a Beport Nutroches netre a listed, a country where tobicade scream of barroade distance or their public bij aborganis of scredges thrums' refusing to great caracters couples below op presidents receding ATISS lesses, and of child mobiles saking the stuly gardenic of the city's weet-

guided faith to coppose as a world case of the coppose of the coppose as a coppose of the saled to coppose of the coppose of the saled to coppose of the coppose of the saled to coppose of the coppose of the coppose of the coppose of the coppose of coppose of the coppose of coppose coppose of coppose cop

sions in expensable for nearly 300 tentrates body pitch and that all the VF betweet Born in the United States. Trushwais motioner are has been noting short of specialistic yet the distinctly incomfetative with such lisability descriptors. Thever a modely and a protessional trushy that move before the states familia. Trushwais a modely and a protessional trushy that move before the states familia. Trushwais and solvent for the states familia. Trushwais and solvent for the two the come, lefe refusant to side sale could for the beautifully and never first to prose

noted in early 1986. The Classic Victoria unit

or associate or an assessori. Given the effects of ordinavatives and the bracket of laws that now convelop NF to bracket of laws that now convelop NF to second in the side of Victoria. Discource does not seem extendy conflictable with the optimistry to proceed the plays. It better is underst both to of-leagues and patters. You're opporting, for excepting the planets. You're opporting, for extendy piled of the hard of collegate white patters that we can be considered as entirely of tending to the other hard or collegate that we may not be considered as entirely of tending to the utilization.

through along catherie.

As with other poncers in this field. Thousand no spenus seems to be more intaltive than learned. He parliayed his childhood tasonation with costs and other arrives into a

reason 5 here or the learning of all length and to the learning or 1864. We the crack has been from a normal content of the learning of 1864. We the crack has always and the learning of the

Once you get a lot of embryos and tubes in those incubators, it can look like a forest

We can't have more patients because the incubators get so crowded ?

ounson's methods became widely 80

Not also one even closed Wood and Discovers open on the invariable in their close to be invariable in the invariable in their was the similar of the American information to the invariable in the invariable in the invariable to their most the feature in the invariable and in the invariable in the invariable in regular behalf their significant only with a feature in the invariable in any with a feature in the invariable in department of the invariable in which is the invariable of the invariable where the feature in the invariable where the invaria

bryo transfer. What ayon a procedure today might seem what ayon a procedure today might seem subter fauron embryo freezing was in 1981, almost unthindable—a cancept confusing up hightering valence of Alcots Hudey's Brave New World in the extreme In April 1983, the

Chiese Andree leaving a logacy of the Orthodogue, a subclamation for chief or gain a subclamation for chief or gain and a scientific inthrogion with fair seaching interesteriors consequence. The case to came substantial writers down Right to she grape item several comments subclied or octeopoly for the similaries protection. Subclamation in the Neticiaum or chief was brenged with an exposit from functional of infamilie warms being to adopt the distriction of infamilies warms being to adopt the distriction of entity of the best of the control of the protection of the control of the con

mean treat/out following and t

Mari he monthing lisera was any mise of the will he gipt he has a list of the most of the second of the most of the most of the second of the most of the most of diagnate to the most with sport second or as a foot size. While his affect manner of the companies placeral drive in the Department of the most of

traken countryside

Owns testimate dater Robert Well travoled
to Melbourne whose his observed Will operations at Epworth Hospital and intel
wewell travaled in his other at Queen Votons Medical Center.

Ower, In the year 2000 how will our attitude toward both and reproductive technology be othered from well at body? Tournign. People will have a much feer choose about the type of reproductive operations will suit from For example, with a much better enowaging of bit oblects instance of choosing a mate on the beast of choosing a mate on the beast of the people of t

of children in each family will shift much more

Oray. How old you first become intersected Trounson I gaw up in the country lowns of

hed brought to keep my mather company school. At the Liverenty of New South Water

While firstlying my meeter's I wanted to

together of a field station in Hax about four beging to the single-beging sheep and vice verse. Then we varied the number of of eggs but influenced by the number of from animals that produced multiple aggs. I

obology developed

ters of egg maguration familication and en

but if all seemed wrong to me. Id been resect

early Eighnes that we put all these two.

Drive Was the Melbourne group the first to Trounson Sure Withdomphene Igot more



So count for AY inventury or complete for sweeks

ing clamiphene was a brasilithrough: Suddenly we had sight prognances that wants to bettle. So other researchers swelched to supprovided on instead of using the womens returnel yold. I also allered the culture medium for agg maturation, again based on any

death for ogg mithersion, agent haved on my knowledger of either work in the co-Choice for getten feeligk groups to work in 18th interventioned the published of what to come the indistrict of the feeling of which to the control of the control of the beginning of the control of the beginning of the control of the beginning of the control of the published of the control of the published of the control of the published of the control of the feeling of the control of the control of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the control of the feeling of the control of the control of the control of the feeling of the control of the control of the control of the control of the feeling of the control of th

pose of I argued that they could be travelor out and grean back to the patients Chancil How did you pioneer the freezing tochrequio? Thouseon: I started using techniques bor-

released from other part of unified in entirpologies in 1981 the stoom between the in resolution to the life that the stoom between the interest that the stoom of the stoom o

Close Is it true, as interespaper once primes, hely you had so deficed a human embryous your home frequer? Reurson Ne way because you can't freele or thaw them in an ordinary freeler. They

have to be stored in liquid nitrigian. The neverores any entripty works of home. Why would you lutilists you wented to do some calfille entirpy work on the sole? Welse not permit the to have human entiryos out of the hospital environment in syrvery. Ozeo: How many human entiryos lie in ho-

in right now?
rounger: We currently have about two hur
right to two hundred sorty, the temperatur

The storage vet being misses one hundres nety-ex degrees Cataus [-320 8°F] may. At the embryo incubator at figworth ospital you once looked in and seed. After man britter.

Troutson: Sometimes you get so many embryos and fulbes in those incubators that it looks a bit like a foxest incubators get crowded, and that limits the number of paterns in our program.

Oeen Af what colubr stage is it beef to freeze a humen entrylo?

Tourson We don't know ye. If you freeze a two-four for even eight cell embryo you can still destry, some all the colls without derringing the visible of the morphy it want make a difference to the embryo grounded.

theres salt sufficient numbers of calls at the time of compaction. But after the eight cell stage at about the saldoor, or thinly-two cell stage light numers, the calls in the embryo bind or compact, to one another Some of these calls are attendanced within a bell of calls, and its these intermeted calls that has

stage is humand, the cells in the entity bind or composit to the suchiar Some freeze calls use situanished within a bind only and its these entermited calls that find control develop into the entity oppoper. Right now which dominant of our first ing still at the two- and four- and eight stages because with bind political and exceltages because with bind political and situation of success. But we can all locates all the bind could be located the bind could be.

Own: A bisologist is the last stage of the embryo bulking flattaches feet to the uterinal wall How old is it then? How many colls does it have?

it have?

Tourson its about the or six days about skey to one hundred calls. The cells are much shallent and calls to force of this stage in shall report and commity from a days at going an armini reproduction. This require that you grow them for the or six days in cuture. This is also likely because conducting.

When you'd get to the other end of the universe you'd need a uterus for those embryos. Perhaps at that end of the universe there

are creatures who have functional uten 🤊

in culture that as in vitro [in glass], are not as good as those in vivio [in the worth]. Ottoo: What bears steps close a patient go through in embryo heading? Tourisen Prior to coming rise the NF pro-

grams before an operation of MF (F) or open before an operation of the property of the propert

Ober, Biscolly embryo fisiciany grevi a werren't he apportung to have selected inservance of the first one distuict selfservance of the first one distuict selffources their eight. This procedure of footbey intresions from distriction of the paragroup of their eight of the conparting selfparting of the distriction of the paragroup of the distriction of the paragroup of the distriction of the pages of the distriction of the eight of the distriction of the logistic self-eight of the pages of the distriction of the capture self-eight of the pages of the distriction of the pages of the companies of the pages of the pages of the companies of pages of the pages of the pages of pages

place of the one call stago with the donated ago.
Once How does a woman whom you've ac-

cepted actually move through the program?
What will her wook be like?
Tourson. She calls the nursing staff at Epworth and informs them that her period has

Toursest She calls the runsing still of Epworth and ellomorthem that het period has stated. If there are no cutstaticiting paid lows shell come to the hospital between the second and louth day of het cycle and begin taking tablets of domephate or shell begin getting injections of kining hard or shell begin getting injections of kining hard sall garacterispin a hormote derivatal from

entirely to have blood sarphos taken to cause by missaining the cruzishing his more we can determine how many 450,000 and are growing his vourise. First were the estingtiment which tells you invarient, so country to the visit so can distribute so country to the visit so can distribute so country to the visit of the country or you consideration, and the visit of the visit of his country to country to his country to

a day Me work to clinic filed potential work takes in their connociation relation for parallel the matural incentional policy? Decoused the matural incentional policy? Decoused their matural incentional policy? Decoused their matural incention and intelled that comcoustance when the again and incention of the matural incoming or protection of the price matural to incention protection of the matural to income greaters and incoming or contained to the protection of the protection of the state (contenting comit for a light and the state (contenting contenting comit for a light and the state (contenting comit for a light and the state (contenting contenting cont

which the repolation?
Thousan The lumbered and whe must de pole how meny edge to feet han and whother to dense About as hours after the egg collection the hubbard provides the soman other with the assertance of the wife or by mediumbang We require that the sevent to provided in the hospital should must be feet

provided in the hospital arrol if must be had and must be the hashard is . Cheer is there a possibility for intrigue? Trausion. You intriguely prescribilities do on at though we don't receive any before they would happen Most of the husbend they would happen.

dairt laue any problem, but some would a prierr to prosent hear stanted or forme in the prierr to propose the stanted or forme in the propose the server. The propose ton system were yet much disposal on the coment quality of the husband When we lest sometime the servers were look in diversifient commanded to server were considered to the point server to the propose of the propose femili Conce were prepared that sport sometime to were prepared to this Thom contained of all by the the servers of the contained of all by the the servers of the contained of all by the the servers of the contained of all by the servers of the contained of contained of the contained containe







BIRTHTECH BY KATHY KEETON WITH YAYANAF BASKIN

BY KATHY KEETOI WITH YVONNE BA

It is filled Lauser Dress in the certificity of the Television of the Certificity of the Television of the Certificity of the C

lechnologies to use their opinions will shape the development of reproductive scention in the nind century. To find out what those opinions are. Only enleted the prelingious respects fee handlooking, and Write Inc. and conducted an intendentary pel querying warren in the Under States, Expland, Japan, and Bouth. Africa for their thoughts on the new birth technologies, the Count respers—assistant common on the implications of the technology, we have ended to the season of the popular on the implications of the technology, we have ended to the season of the popular period by Dr. Judainna Demokration (garber on popular file). The will open endorm popular technologies and the period of the lines of the women of the world. Africa locates Dr. Demokration defends hoped to use popular technologies, the will also for period to the popular technologies.

tradition to depote the trade a specific process of the control of financiary that are beyon to save for later implantation? Given the chroice, which would help supply a children what he had been to be the chroice, which would help subport a child or an intribuyo? Under what consist norw would help choose to have a test-state other? If they had the opportunity to favorphick the observations of an anterlymina speam donor, what would they choose? When he recurs what would have choose? When he recurs and always are inchanged.



Already scence has transformed the brological piccess of becoming a pasent. In addition to did fashioned conception, men and warmen today have a veriety of novel afternatives for bringing sperie and egg together.

to produce a today

• A couple can have a treby by artificial insemination using sperm from the husband or an arranymous donor.

• They can choose to use a surrogate

 Treaty care changes to carry her own or animplerited enthypio bisministhem.
 The caraphits own egg and sperm, or chnated egg and sperm, could be pined in a petil ident and later placed in a woman's womb, a peciase that is known as woman's womb, a peciase that is known as when a tell fully. Sent later is not to the foot of the period of the period of the body.

of a jumpgate can be haphed from her worth and implanted in another's womb, a tochnique forwar as orthryo transfer. Depending on a couptir's fertily problem all sorts of combinations of these methods are possible. Consider sperm can be used either to reseminate this bedopped mother of the disearch between a surposted methor che-









Opposite page (new left) sperm being soverine for sex selection below ferriering sog of the first sex selection below ferriering sog (file felt). This page bod or high-kech brittens include whitesound soons of the word britt, stretcher, heare storinger letter of the word neogon status of the word neogon status of the word in the conductor from any stories (etc.).

the worth that are used could be have of whether the woman she worths a disk of the sumppile closes to carry the entity of exclusion scene or couldn't be entitly of exclusion scene or couldn't be read to consider the scene of the country of the c

For the past 15 years, more and more American season have been delaying the start of their femilies. Between 1970 and 1962, the number of those who put of their femilies of their heat one of their heat of half legal health from more than doubled. American season that to bushed have more than to bushed a have more in the legal of their sources. Every season that to be sourced to the their sources they are more than to the legal of their sources to be season to be season to the season to t

Half the women we point list that if the medical rates were the same at any ago, the deal time for starting a ferrely would be bedefeated from the book Wemen of Torsonow by

of Iwann the ages of twenty-six and thirty. For in women with ingher incomes and those who work, the sixel age was used in give a sould got for childshirh over thirty as the dod. For women with one or try with pages in the women with the child was also he women said becoming a mother over thirty women said becoming a mother over thirty.

ten' fundus, cisiqued notherhood was also considered desirable. Hall of these chicles women said becoming a mather owl. Pury was that pediaterica. As one women becomes use put if & oggot that yill her to furly focus og your ble squared away and year valuals arringfalance out. And you've young mough not to be on oid passer!

Postpromy pringrancy his is dealtacks.

Postporning programmy has no drawbacks as well as as bandths. The later the programmy, the relater it is to both mother and child Vernen in their laser three or debethane a greater risk of such complications as tractional programmy enduced high listed pressurely, strifferth, premature, delivery, and lower-wood to bables.

loseri-weight babbis
Getting progrant may be another deficutly Some women fail to outside a condition that becomes more common as a woman pela older. Others may salfar from endometrosis, a palva infarmatory deolder sometimes called career women chicase because in progresses with age Otto offect in that the lining of the worth speads

outside and attached itself to the overy, the Fallocian tubes or other organs. But with standard hormone treatments or suspeny, most women can get pregnent and women with owainon problems get prognant. Others can have their problem conrected surgically. One San Francisco augeon transplanted an overy and Falliopian table from one seater to her intentic identical

twin afficied with endometricials. For some women, point of the more conventional solutions work. They would be the ones to take advantage of other new openies. And Mr. abcoming the more popular of the alternative birth fectnologies. Since the other his that is advantaged to the alternative birth fectnologies. Since the other his test bestup in 1978, after the couples account the world have been

lab dishas were born. As of 1985 there were 116 in vitro direcs operating in the United States 8 in Carasta, and at least 50 others around the world.

Here is have a basis NP works loting. A working on person letting drag Common Progration of the monosis to attribute her courses non releasing sweeting age intelled of the usual one. To detect when her organised until the common letting of the common letting those, an occur intelliging the common letting beforecome device the chamble of a period course. Looping through the scope, a physi-

the comain the oggs he ben innerto a org. holiow needed to suick them up. The lawy aggs are placed in a petit daw with a layer of hagad numero in Atterbrossan adds diepo of sperm and the containt as storation as one of the containt as toward in a layer of the containt as toward in a layer of the containt as toward in the neckator unit hely have been restrated and here deviced to an orgitcial stage, usually after a day or so. The em they can deven up in a player cell their and

deposed in the where.

The weekled lane, a programmy test will self-whether the embryo has taken. If one on bryo is used a double stands a one-in five channood a popuration when most access full clinics. If there embryos are used, the odds embed double. Yet own when a programmy in the programmy takes, a third of women will residently clared to the first them embryos.

New done in a historial or clinic out-ofbady conception will eventually be pirt formed in a doctor a clinic. Physicians have lessely also in heid step on the director at the University of California at Los Angeles Medical Charlet Teams there in original use a legariscope but guide the set minigate an experience of the control of the UCLA at team celebrated in fair success with the reschool in 1884 whom a buty get was both to a thirty-her-year circl California acoman. The leverse has optioned or the minich

to a proy-the-year out california admirant. The assement we polled were of two minds on NrT Most seed they would profess to advoid a child it they could contact the notifies the eggs nor their wormto to produce a chief Their preference for adoption facility. Review if decernit wins able to use their eggs or their worsts to produce or been a chief Gaven the letter conditions, an overwhelmnian BB period of women says they would be







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symmetry array as an order to a stokening distance does not have much at a stokening distance of the stokening and the stokening charge to provide the stokening of series and distance of the stokening of series and distance of the stokening of and the stokening of the stokening of would happen to the entrytops? Another bett in servicing that generated

strong referred among the women polled as emitting introder by the electricise and sign is fertileted in the worlder, who can read in the strong of the strong of the strong and the strong of the strong of the strong a model for the piccedual for years. Times a model for the piccedual for years. Times an emition obtains because in the world of cattle breading. Othy recently have elsemonian hyperial out from to do the use secondary hyperial out from to do the sur-

blocked and control and a stronger from a supposit furnished for human First the more strong cycles of the prospective mother and the egg dozen as systemicized is contented with binnows. This this dozen is stifficulty readmissible with great than the motifier-like being the property from the motifier-like being the property of the property of worth. The entriety make allows the to to cell stage is expellated in a spood conforming the same procedures are not NF We showly works in 1664 feeting two We showly works in 1664 feeting two to We showly works in 1664 feeting two to We showly works in 1664 feeting two to we will be supposed to We showly works in 1664 feeting two to we will be a will be supposed to when the supposed to the supposed to when the supposed to the supposed t

wetersoft works in their tillness selvcises av beside to home to belage selvcises to be been belage selvcises to home to belage to home to be the selvcises to home to be the selvcises as a self-tillness del nu weterfold programs as a self-tillness del nu weterfold programs as a self-tillness del nuterifold programs as a self-tillness del fine weterfold puriode the definition of the self-tillness and the self-tillness del fine weterfold puriode the definition of the self-tillness and the self-tillness and the self-tillness are self-tilln

Tigot I from Ferritry and German Telescont flow, the Chicago company that sponsored tha Harbor-UGLA project, plans to open the field of a network of embryo adoption clinics. Although the woman we polled seemed to have more entitivasism for Will than for emhop testigations, a significant frumber were

bryo transplants, is significant number with attinatested in the latter Forty-two percent saudthat if they were able to beer a child but could not produce eggs, they would choose to carry another woman's eggs fertilized with their husband's sperm. For them being to give the baby my environment, to leel the

baby stering," said a mother of two however irredition won out. A slightly greater number 47 percent, said they would prefer

a more established birth technology artifihas been possible for 25 years. At least a

Yet when given an eithestor choice of adop-And of those interested in AID more than

When asked what fraits they would seek in and pleasant personality. In declining order those were followed by good looks leadscientific albeity, and financial suppless

ists and musicians, religious leagure, poin-

Interestingly, priorities shifted once we gut rement to those owners categories. Politiare John F Kennedy and Walter Cronkte

For all their divergent corrupts on both Women as a group do not fear the future consequences of these new methods. Only

women and they obligion will change for the beter planned werned more and byed more fiven as others talk about Brown New





FICTION

Under the snarled canopy of ash-gray trees, the ring watchers and

shadow creepers feast on death TRAVELS IN THE INTERIOR BY SCOTT PUSSELL SANDERS

Viewed now at twilight through the assessments to like a clift, soud and impassable A milion sea fation all at once so that were the chaclows. Wire window glass supervisposed on the view a grid



fall made it sound both fedeous and holy by way of wanning. Kylo errounced bowlerously. Look out, old budge-Wrenching his thought ns mountain. Garrett Pening around to your free

were playing a game of Wild-Survive It took him several moments to locate his player amid the gitter of luminous beasts and severe terrer. Even he spied it is this of light extrav

at the acreen dismissively "Stupid stupid, stupid Some pathfinder you are!' said Kyle "You get lost and die these tens in twanty moutes. I hope Exacousted with the game, with his high-spir ged brother, with the cramped sleep-chamber in wheth they treat off the siny hours weston for their

time of departure, Garrett declared "Only a bear cretiveness about the white mountain only inter- Kyle filed the chamber with his rowdy laughter

sified his desire to go there. The law hints they let. He was a big men and did not provide easily mi-

PAINTING BY H. R. GIGER.

of order as if the laby onth of limbs out there had been surveyed But

Garrett know better The forest had never been mapped nover photographed. The few explorers who had returned safety after penetrating its heart When Germit guestioned those veterans about "Hitse you been to first discring white peak," he osked them. "the one that home un freunth the forest camppy like the arout of a whale? How far is #2 What's it made of 2" But the obj-timers aud stand of very little train could play at this make-below. of him with the brussed look of onlyones. Their security a soal wildernoss suct beyond the wall.

seang changes in mood as a boulder resists changes in temperature. Of the two brothers he was yourser by half a dozen years and heaver by some two dozen kilos Both men were tell but while there was a dating whatever boasts stood in the way And into complementary roles. Garrett leading

again. Kyle keeping them alvo No ive had enough You go aread

confront real danger then irrelation danger would do Boast after beast attacked his player shaggy forms bounding across the before & spuck Between credsughts he you can say theil mountain of yours?

much-and maybe twelve days of frising "Why so ansigue to keep me busy?"

"Not a bit, not one little by sense." Kyle hummed a broken melody Than he sug

There wasn't much open to check and what there was had already been mirutely a month tools, clothes, teckle for climbarg compared with what they carried on most expeditions. No pameras or recorders for any device that could rectuse the wilderness to images was fortickfan. No signatura, since consider calling for help. No breathing ap-

tunive? was close enough to E-rermal to Having finished his ritual inspection. Garforest. No movement no diret of eyes. Abrupt

Big Tracket, the veterans called it is dense great of trees and brush creapers and brans. ters. Even the obsannels of rivers were roofed the trail the larger and more dangerous tha

enimals passing along it

Sucidenty. Kyle let out a dry of trumph g kill "Bam! Howe that for shooting?" The look of rapture on his brother's face of raphies, frenking about tomorrow's jour of these woods the discovery crow had named the pignet Kentucky-2. Perhaps the had been so taken by the idea of a second Kartucky-one incomparably visitor and more tangled than the original—that they

added forang a smile "nover make if back. declared the ordre planet a wilderness preout of the Big Tricket? and sees. Apart from a few next remes.—Big Trunket Class Paus Tooli Alloy-Kentucky

•In the darkness the forest looked an impenetrable weave of

He must find a way through

the tangled mass to the dezzing mountain ?

preferance or a bobby of exploration dragmed of verturing here, but only ninelymarks were the station and the rocket pad ers who had earned the right to come here fricush suppess in survival competitions on in proups of two and threes, the explorers sipped out through the air lock and disappassed into that unmapped immensity. Some of them would resum to the station after only

"Will you gut that so we can get some *Hey hey I'm cooking brother Just one "Im sek of all "Garret; cred, slamming his

this brutal make-believe! Kyle awung around menagingly eyes tifed

some with self-respond be said. "It knock Sharp for what? The wids agent like that-

continued after enother. You make exploring asem like wartere That's exactly what it is-war. Kylar spood up and stretched his balway hame releasagainst us. Garrett: One of these trips you re see feeth. Teeth and claws and pincers and

Garrett knew the stanstics-the number them-so he held he tongue. Unless peotruly wild. On Earth death had retreated to

The hammacks were quickly slung from dow With an apriley remarkable in so long a "So get your sleep trait preffor, he mustered

The or look closed behind from with a sucking noise-even on a planet with entry. Kale latering for the footpeds of emand their pecies bulled high above their sivalities like cargoes of distoress. It was when rightime predators are yielding to You see any door big brother? Even

though Kyle whapered his voice sounded Plenty But I don't see ours yet. Banett always sayoned fire moment on the thurstold of a wild zone the morrest of deciding Got you beginned. Kyle belowed as he opening where two trees had fallen stant ing an erch just high enough for graving frequent, their based roots soleved in the air

On mercy starting out on hands and They soon wriggled through, and now they belonged to the forest. They had to reed the at of largi with their lost could the patterns of detries undergrowth; and interviewors branches with their view, asseying the gian of the woods. Countrif in the load as always, has senten afert to every detail of the way. Kipe, as always, burdering behind attained to danger their less of short moved away and interacter, shorts their is engine detail; and beast not belong, not reading to tak, putting as much dispance as they could be-

next term of explaints was schoolied to depart. The ground was sporegy yearing beneath their boots and their speringing back to crase all marks of their passage. During the first few hours they passage their give fault to backsight along the way they had some mamorating that todares of leaf and beg and took so that a month from now he

could lead them sail splitt.

Then as the local sun climbed overhead and clove starts of red light like listy take into the tases floor both brothers halled as from sand. They shrapped mere of the task-packs took off their grappies and helmats, and as socie by adds on an outcopping of rock. Carriet took opinion of the rard hald.

rists a meen son of a blich, all right, "said Kyle. His face was saick from sweat and brolen wate open at the mouth from pareing He kept also hand on the rifle which kily.

and one for the "

In Glassiff the supplied woods-sermed root
for Glassiff the supplied woods-sermed root
former and unless and derivate froots were
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war, an or Lastiff the treat seem see the
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the lattle bruses with all our humping, and the big bruses—the ones that don I scare—I expect they never come this close to the station. They re-back deep in the woods, so the old cases 50?

Thickes—would say "You won times the lefer be you can ching the water some of the plants are poscinius, either to trush or eat the mail of armitis will lovely you allow but what it close to your stomach is not insuch more profesable to stemming.

"What land clid you see?" Gerrett sekest.
"Haven't you noticed those sivery bags harging on the trunks, brottles all over their should disting holes through the balk?"

"Uhought these things were come kind of epicifysis."

"No, I expect they so aremals. Tipe suckers." History the title in one fist to use as a partier Kylo gestured overhead. And hose snely through the stillar through the root."

smally things that states throught the 1001 to coll bismorth websites.

Gainst poered a long area before he could make out one of the could consider to with any separation and down through the bishow was of hints. Once he decovered the first, who excidently perconnect that mercy where of the campy was in fact crewing with throw the consideration of the campy was in fact crewing with throw crewing was made and the campy was in fact crewing with throw the campy was in fact crewing with throw crewing the campoint in the long.

ing their scary bodies century fiving in living How do you suppose they do it? Same kind of secretion? *List's see Before Garrett could profest. Kyla had find

&Against the darkering sky, they were

thickenings of shadow, arrayed in a crude

in, then two more arriving
in pairs till they
formed an unbroken ring ?

a quick burst up through the carropy An in start later three of the branch weavers foll clattering to the ground and lay still like

with a you bother.

Bending over on all the fallen creature.

Kye seat, it worth but them fall is much and they the coparing agent and service and they the coparing agent and service the fall is to but of his gain he added. They allow that of his gain he added. They allow that of his gain he added. They allow that of his gain he added they are not service to better the ports all design month to get hard he does not be to extra the ports all design at some it in must among the teak with this abulf so when it weekees the bushches to aggreent everything at weekees the bushches to aggreent everything.

from They re back deep nithe woods is other and did guys say.

This was about all find the old guys—the vertexans who had penetrated the tleg.

Garrelt learned back to gaze at the solid.

gigante web

through the calcopy sconer of stor to get a bearing on the white mountain—but he was in no hurry. He shouldered his pack and lifted goggles and halmet yet he did not want to laisse until the branch weavers had to went from Kuller that Securita possess, and

the bodies faled to str. "Maybe you gave from too high a charge." It was nothing. A today. Kyle prodded

E was nothing A tode: Kive product to bodys with the life. The board humped against the scalest plates. I do believe the scalest are dead in east in atom of guilf amazement. Furing—you wouldn't thirk anything the scugh of the outside coled be so week on the inside. With place from tool belt he chapped the fleety strips onto the nock outstapping. Might as well as

something else set them?

Garriert left the first nall marks of dread along his northes. Whotever they use taken; ing mays be writing have the warmer to be been a something the writing have with that demning unit kipte gave him is hursus book. "I wasn't bearing away with that demning unit bearing away within shout them with wouldn't have related in an that them with wouldn't have related in an that is form."

Instead the mutational "Nash cakes (Left sign). The problems had valued only in their passing with an interest came to sound of increasioning about more with an interest came to sound of increasioning from the mock where a thigh yeard taken more result. Towards about questly their plant taken more result of other than a sound to the problems of their plant towards and their plant to the problems of their plant to their plant to the problems of their plant to the plant to the

Kyle whisfed Hungiy!

And quick said Carrett detailed by the swiftwork of these scawingers. Did they out

even the fur and born?

Maybe they're the reason nobody ever comes across the laddes of the guys who get lost in here I said Kyte.

The wood dost set Gainett in motion again.

kills out of his mind. There would be others.

On secret expectations. Kyle had become more and more trigger-happy firing all anything that was even requesty minimizing out if he feeted that their back was cutning out.

Lead on tog better: Kyle ears out Suit don't logge to be took out toget better to wa got have.

Warmed I van body heart, their shirtners was so on a rolly sheet in the middle.

The contravariation of the contravariation of

Because the local day was only a little at more than twenty E-hours long, the office in non-passed quickly the ferry shafts of sunnicial light burning in longer and longer startes side a stone-titlened crook. Kyle tested the seger, shaking a slug of it in a too well to to drink Garrett dipped his out with a cup

While the encampment took shape under breveng on the cookstows, security flare reviewing the days trail He recollected this creek returned again to the station, again

and unwending a bell of string At langth he opened his eyes and Kyla

It tested vaguely of corfish and petalore. other tasses on other replie. Gerrett swatlowed some then spoke about what had

crows they're trying to keep secret. has extention, and he was gazing upward leep Visitors he said

ther techos formed an untroken and The

ways named strange beasts immediately. if exclaves were allowed to policit snersbrother's track forearm. Gamet, said. 'Don't

Made bey're set carous

"Maybe they rejust looking for supper." in a low voice. Garrett saxt. "See what the

please release of gases, and instantly the

friough the woods. They priched camp beof lots. A charus of authoral ones and whitepers dounded in the branchus overhead then a trante southing of sluggish bodies Kyle let out a notous laugh "Black may the

Garrett watched uneasily as his brother stuffed in a heavy lumbering dance around the prountierence of the light dome

Two in the right Kyle wriggled out of his seep pouch, mutered at Garrett, It's noth ng-on back to sleep I disappeared out-

They got too canous: Kyle explaned

6It swung into position, then suddenly

dropped and spread open like a fan, its ribs unfurling a thick blanket of flesh, and

an instant later the beastly weight buried him 9

ways more death. Showing one of the carcareer with his boot he rolled 6 over re-A thick and clumpy skeleton bulged underloate selver have. Mee the pet of on aged go rillia. Why clid the beneda die so passiy? The back and let the biologists take it apart. But

Igneration was the condition for wederness. "Did you mean to kill thorn?" I meant to stop them " he said gruttly." And thurrp-down they came-and rever

rwinds. "Here grap hold of this thing through the barner of light which still blazed with a herce vellow plans against the sums

warly raid. While the brothers are breakfast beasts evidently could not see in through the panquet it was overun a few minutes. The

"Hide and her and objets—they est it all." Putting on his gloves and stoping out wiguely horseshop shaped the color of wory

You hurt? Kyle miked Clariett shook himself. He felt as if tworts

of the bone from his grasp Garrell seed "1

Could be they to pure sozyangers and don't hill anything on their own

A last show coursed through Garrette They becke camp in pierce Patrinding rytial fear gave way to astonis/rrived. Why them? Puzzking over this, he kept forms the

whether to go left at eight when he came up awamp. He well his chock with a licked finon to detect the tent motions of the wind but this gave him no deer guidance

BIRTH POLL

BY JUDIANNE DENSEN-GERBER

Chie of the most challenging and previously required in their to their total with the many restring reproductive add corring will use. Arthough reministration has been reveil able for come (2) years and we slid haven't should like their come (2) years and the production of their come (2) years and their come (2) years and their come (2) years years (2) years years (2) years years (3) years years (4) years years years (4) years years years (4) years years

body (farm members of a manisord couple on sizeries to Flery official in consording and obtaining the sizeries and sizeries of an analysis of the sizeries of and the couple gaps a fined woman to did and the couple gaps a fined woman to did when the collect of the control of the obtaining the sizeries of who control of the woman who commissioned for except of the body are constructed in eagu, and the woman who are constructed in eagu, and the woman who are constructed in eagu, and the woman who are constructed in a commission of the body and the construction of the control properties of the control of

So fact there are no of the or technal level to give in each case that the next for them had because that the next for them had because that the next for them had because also disprisely make depression of Connected, the research establish founded and opens, to gather information to help them disway pelones in explaint the new sproudow led notiques. Our both-section gives not perfectly the perfectly and the perfectly led notiques. Our both-section gives not perfectly the perfectly the perfectly and the perfectly perfectly the perfectly perfectly the perfectly perfectly the perfectly perfectly

one of the test septe in the project.
Preside give the following questions statements some sences thought, the mark down, your entwint and sand their hall beganner? O Odystopy first Corporation BIT Feitheld Avenue, the part of 10 8914.



poper By September 1999 logislation will be introduced in at least ten states, and the lawnskers are listening. Thank you for your help.

PERSONAL DATA
Please tell us about yourself.

Ane you male or female?
Female Male

What is your sexual preference?
Besould Celebace

se 3 How old are you?

Linder 20 20-29 30d 40-49 50-59 60 c
to 4 What is your mantal status?
Manaed Single

 How many natural and/or adopted chicken do you have?
 None 1 2-4 5 or more

 What is the highest level of education.

4800

Did not graduate from high school high school graduate College graduate Advanced degree

7 Please check the total income earned by you and other members of your house

by you and other members of your haid in the fleat year. Less than \$10,000 \$10,000-\$19,000 \$20,000-\$29,000 \$30,000-\$39,000 \$40,000-\$39,000 \$50,000-\$39,000 \$50,000-\$39,000 \$50,000-\$39,000

8 What is your religious preference? Agriculte Arheist Catholic Jewish Moslem Protestant Other CONCEPTION UNDER GLASS Cited below are serverall high such

methode to give is couple the child they want and vances oncurratences in which has sectingues might be used. Assume for now that the parents to be one logally manned Please indicate your views on the following statements.



used to pyercome intertitis Somewhat agree Strongly desagree ID. Anticel reprinator with donor sperm

Strangly agree

11. Artificial insermention with donor speym

12 Artificial insermation using sperm chasen for the donor's high I Q or another destrable that may be performed even

Strongly deagnes

Strongly disagree

Strongly desagree

Strangly agree

16. A host mother should be allowed to

Scriewhatagree

17. If a write is infort to a heat mether may

19. A sperm or egg donor should have

21. A host mother carrying a fatus to term

Somewhat agree 23 The child once grown should by told

24. The child once grown should have accees to information about the clonor-for axample medical data-other than the do-Sommetric acres Strongly designed

Somewhat agree 26 Host mothers should be paid

27 Donors should be able to offer their sperm or eggs for sale

28 Spermand eag donors should undergo

99. A parson should be allowed to set up a

31 The host mother should have some pa

Samewhat diseases

30. It is host mother carries the chick the

woman who contributed the egg should be

Somewhat designed

Strongly desecrete 35. If a host mother becomes an alcoholic a riefective child results, the prospective

Somewhat diseases

36. If a host mother mescarries, she should

97. If a host mother maconnes, she should receive partial payment

58. It a hast mother macernes, she should

39. If a host mother is instead during implantation surgery or pregnancy, she should secone workmen's comparation



Strongly disagrees

40. A would be host mother should be allowed to disarrier services on the open method. Strongly agree Summy and Sunday agree Summy and disagrees Summy and disagrees.

Storgly disagree

41. A host mother should be able to short
the tous independently or to participate in
decking whether to abort the fetus.

Neutral Somewhat disagree Strongly cleangree possible for the husband to carry the face to be the should be encouraged in a certain percentage of marranges including cause in which the whole

rages inducing cases in which the wife is carrier cremted or is infirm Strongly agree Somewhat agree Neutral Somewhat disagree Strongly disagree

43 If insite programay becomes wable a male should be permitted to be shoul mother even if he is not the donor father Strongly agree Somewhat agree

Strongly disagree

44 Fix becomes possible to darry a shall from the tour month mark to term in a worth

machine should tibe allowed? Shorgly agree Somewhat a Neutral Somewhat of

machine shortly after conception if the parers wish to do so Strongly agree Samewhat agree Neurisi Somewhat deagnee

Neurial Somewhat designed Sirongly designed 48 if an embryo is not implanted into a mother's womb, free should be a limit to the

mother swomb free should be all amount of time that the embryo is a develop in a uteruskie environme the body Somewhat Somewhat Neurosi Somewhat

nd Stongly ages Somewhat an Nautral Somewhat Stongly disease EVERYOS RIGHTS

What rights does an embryo hat 99 47. All embryos produced in the should be implicated interestal

il embryos produced in the laborato di be wipsiented immodately into in gly agroe Somewhat agrae al Somewhat agrae al

48 It is right to trease embryos for such medical pulposes as improving a working changes of conceiving at a later date.

Strongly disagree 49: Embryos should be terred for gension defects before implantation cooks

Strongly designin
50 Embryos should be used for scientific research Sarpes Somewhat agree

ionngly drasgree it Embryos should be used to lest drug or such hamful side effects as lowerly i siformities

Stoogly ogee Bornewhal agree Neutral Sorrewhal thisigne Strongly disagree 52 Parleniums classase and various other

see ingit someway or state by the series temp teaus seen from a fetue into the pirt states should be donated so these returns can be performed in the series seen to performed to the series seen to somewhat agree each states of the series somewhat disagree each states of the series seen to see see seen to see

SEX SELECTION

It may soon be possible to product or marepulse the sex of an embryo before emplantation.

All These techniques stouds be used when

Fises in a known risk of sec-initial genetic disease.

Symply agree Somewhat agree Somewhat designe Strongy disagree.

54. They may be used empty because particular particular

ched Salongly agree Somewhat Neutral Sorrewhat Strongly designee

TRANS-SPECIES HYSRIDS

Techniques are being used to fertilize cowaggs with human sperim. Soverflast walking
such technology have created what they call

have species gametes. How tar should we pursue trans-species expentients?

55. Scarnisis should be allowed to continue to create and expenient with trans-

triue to create and experiment with that species garretes in the lab Stongly agree Somewhat agree Neutral Screwhat disagn

56. The US government should determine how far isam-spaces gametes may develop (the Betsh have set the limit at the two cell stage) and how such gametes should be inserted.

cell stage) and how such gametes shot be destroyed. Strongly agree Somewhat agree Somewhat disage Strongly disagnocco.



AUTI-*MATTER

UFO UPDAT







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Controlled an advantage of the controlled and the c

in opposite odding an ethal common region and common code, after more from a code position and a code, after more from a code position and a code code position and to me. As soon as she is the car is tocked the he syst would pop out. By time the light changed

who was baying if just under the archive Owan Clair The jower of species in Justice of August The jower of species in Justice of Section 19 for the justice of Justice of Section 19 for feet of Section 19 fo

BENDER PLANTING

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an will all According to Blackley inflar is todely based on breat Jeb son's video broke Jackson's series bown parcey. Beddey job and the properties porting the word of this as a tentile performer with a pompous approach not conservative activities least test left him open to more than the performance.

propriet get arvolved in poin? As it turns out. Beci regularly seas X-reled mo las and has even been a wo pot micretis tracking claims there is none "You have to keep the physical wall as the merfal in shept he says. "I'm sincere about what I'm doing. I'm not wall hying to make a buck."

It has they are beginning the me sencusty. This imclass is tentile bunder in me. I must redouble my sughter."—Lawrence Du.

mbative—of blood a ually, of strange area conces, of Asia —Shawi i

Where can wake you us I you to exemple and ke impropriete away all hout invading your on our mind? The only op

with America, DME-PM in Solveding to new directly rec Cote, DME-PM first rec Cote, DME-PM first rec Cote, DME-PM first recorded by the model of the the model of the cote of the solveding the solvedi

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regists 30 of the 44 local spirit outs. The program runs have developed an intermining and from flow making the sample of the sample of the sample of the flow making and flow making

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endiques entires and a service and the Lawrence and the Lawrence and the Lawrence and the Lawrence and a service a

"The diseppearance at reappearance of those masquitoes could have be caused by a milion filing Callohen essarts. Tot instonce a soft breeze."

PREGNANCY ODVIDAGE PROMPTOS SIG

sexuels requested admittance to the in who tentioration program at the Queen Victoria Medical Center in Middourne, Australia. They wented to have bables. The Melbourne center turned down the requisit.

last turned cover the opposition of processing and the control of the control of

Opportunit region.

A social worker currently undergoing a temple - before the male - before the mean matter in working committee in working and before the committee in working and the committee in the committe

Dut from who went to have between my not necessary, when to more women in overy respect. They are not oil transceasts, When they were not oil transceasts, When they were not oil transceasts, When they were the necessary to make more they are than the necessary to make more they have the contribute of the most oil to the necessary to make more the heart of an area of the necessary to make more they are the necessary to make more they are the necessary to make the necessary to make the necessary to make the necessary to make the necessary to the necessary the necessary the necessary the necessary to the necessary the neces

deced if their husbands could carry their

baby Stattics has received similar inquiries

ceived a call or latter from a transsessual. The

men who called overmed very normal." he oncode: Tiguess they just worthold to see that vegenance of having is table; Shattles was also contacted, like Harding, by mon whose where there have were mitted and who winted to "sale the tension of the wife."

Then of course, there worth oncy. "If is, the contact of the wife."

the listness of the We. Then of course the same only if listing prise worth only periods. For its discussion worth only periods, and the same price is same to have worthe and transits. "Rook a representation with come! Mexical College, consistent with college college, consistent with college college, consistent with college college. The college college

sea, and so on-white here when carry my body. West of the men I we analyzed during their wwest programates have depressed wishes to have tisteed and have developed symplomic. Hoes says. In any case, when the time comes for the

test ombryotranslar and a man, there will be no shortage of voluncers—and no short age of ones either Most researchers we taked to admitted that a huge stambling

Scientists
doing work an the autting
edge of human

reproduction were deluged with letters from men who wanted to

experience the joys of pregnancy 9

block to mole programmy would be officed and moral objections. Already, the Michigan state enrals in opportuning a dudy to assess as observed afforces toward new both technologies, including male programmy. Persumably not everyone in Chand Rupids will be overgrowd with the size of mean in miderals.

sumbly, not everyton in Grand Hapitas will be overgred with the side of man in maternity clothes shopping for nutring bras. But how do formates ten? Do they oce male programy as their chance to escape bedgepail destiny? Gloss Stereen, for one, believes that pregramely could make man less violent. General tent has made women while the

more "says Steven, an editor and opportunities of the magazine," male we make less visitent by all measures."

Flo Nomersky, the black farthmark who popularized the alogan "I men could get prejudent, aborton would be a separater" along says benefit "Certainly this is an opportunities of the popularized could not have a leg up if allering politication chough and gash enough to all banking of the work. If a necessible along

toward women gaming on man, at least in terms of cocktail party jokes " were But solicus doubts remain in the Sevent Shot

ses fermiste were ford of the slogan "A worran without a man at like a tich without is beyold." New with male programy on the horizon, Stannern suspects the fables may be turned." If have a small ranging feet, she conflicte, "that tive women base our canted on gaving both, we could be even more degreenable than it is allowed, and."

An admission. We now wanted to write the write is wish to root of a consideration to the consideration of a consideration of the consid

Graeid mary more armed studies are needed to assess the placetary of mele programmy. As far as enfocurnology is on-cerned, what is the research has brain done casts certops doubte on our current under the common control programment of the common control programment of the common control programment of additional pregnancy must be retired tector a facilitation of additional dogs can be interested tector in facilitation of the common control programment of additional dogs can be retired tector in facilitation of the common control programment of additional dogs can be retired to the control programment of the common control programment of the com

and go offset for the "The early Security Securi

conductined them comprisity
We give Shrattes, who now runs his own
edince in Jas Vigas to estimate when his fresh
human male yeight to estimate when his fresh
human male programmy would take place
As a prefixed to grang us an entire. Shelhis persion out that a ferrier collection of
the fis, Dr. John Place stated in a medical portoral in 1988 that the time had come for a vest
to schirology. But it not a his 20 years before
projected in Place & Septice and Robert Life.

winds schalary produced a beby An Iar male prognancy. Streetes says. I don't trink its going to see as long as indice with the in-visio program. I think anyone who easily wanted to get on with it now could achieve success." And who will do it? "I think is would be neetly burry if the Aus-

traigns, who have an international reputation for barrig the macho men of the world, were the first to achieve a male pregnancy. Shettles says: I wouldn't be surprised "DO

DRAGON

and started out to do something, but he still Mrs. Downroom was slightly built, pretty,

No. I interference to scale you like that I set dropped in to make sure they did a good lob with the greenhouse. Boon moanhouse II was oppler hade than out the discous were closed, and a fan moved the was surprised for a reason he could not put a name to He had expected poverty maybe.

drossed as if every penny had to be weighed. The house was clean without being

In Cory's room he necked this was what he had expected. The greenhouse had been rature rose in full bloom, each perfect yellow blossom smaller than a lingertip, helf a dissenweather, a borich covered with poss of biograpo flowers-lobelasi bagorasi a He looked at the joyls of the greenhouse

and peered at the lights, the heater while Mrs. Daverport hovered in the docrawly Looks tree "he sad then 'Quetfine She's engying it sett she?

"You've been awhilly good to her." Mrs. Davemont mind softly. The wanted to therk "She corned it" he said brusquely "She

Mrs. Davenport nacided "Shas good with parts

"With plants," he womed, and now they looked at each other She know he had come to tell her some-

WEEDS And he tound he could not bring any more done the best the could Meybe she had over tailed to Cory strout boys, about drugs about sex. It she hadn't and if he brought up any of a new she would know something had bacomed, something that forced him to come here. He took a deep breath and smiled at her and using the voice he used with Cory, he said, "Shors a good girl, Mrs. Devenport You've done a good job with her The next day he talked to Cory himself What he sand, quickly almost roughly was.

191 C666

at Whitmen's For his sude to burinday that fall Cory gave

him the branze-leaved geranium, it had yellow flowers. "All be demned!" he said huseby Triansi be demond? They would have to name it, protect the seeds as if they were Christ's tears, see if they came true . He shoes. He remembered the day she had looked from the plant to Cong and her smile brought tears to his oyes.

A steady rain is falling in Portland Bruce stands before a place wall and watches the water on the tarmac. Today is like a repeat. too, by had the same flights, stood in this same appl. That day he wanted to sing and dance all through the terranal, tall every a terrode . The standing water his an of

swift that twests and turns separates, reto blue, grean. He drove to all the places he had known.

hazed some muckly trails, swifed beer at the old bern saw a couple of he old gritriends-ust for a drivik or lunch, nothing

GShe shook her head, and now he could see the fatique hunching her shoulders.

drawing lines under eyes waiting for him to sell her

what to do, where to go ?

more Hawas too ful of Beatros for anything

n ore morth that would be married and He stands of the glass wall watching the rain the uneway standing water tingging the

be that day the intervering time a bad dream He remembers He had no intention of going into the preventuries or onto the property. It was took him to Whatman's that Saturday He wayfind to say good love to all the past, the

A min or two from the nursery he saw Cory pushing her bicycle on the shoulder of the figure emerged from the rain and met and became human not just a shadow He slowed down, passed her, then seepped on the etradition and got out "Hoy, Cory remember me? I used to work

She stopped peered at him awhite, then encased in a long green poncho with a hood

pulled down nearly to her syes What happened? You have an applring?" The rien was cold and stoods atready soaking through his sweater, into his

twints them how to bell up the roses it had She shock her head and pointed to the

Let's put the bite in the station wagon and I'll give you a ride home. As soon as he spoke, he was alred she

would ramember that other day connect him

with Frank, but she did not housate. She station wagon. They put it in she sat in the passenger seet, and he got in and started to drive and he searched for surrething to talk about "You'll have to direct ma" he said. She directed him, he assumed the came

streets secondary roads with deep pot-14 they were at the corners where he was to turn he slowed down agen and then again The wagon grided ischarlingly as the left reer Again he looked at Cary, she had not

changed her position or expression. Dame "You ever plant those turny seeds Frank gave you? he asked

He had to drag it out of hor. One was a burnane plant. These was a fuzzy bush that

figur nemarked secret until they had to him egain, and suddenly they were at her house

He wanted to got away from her, never see her again, rever think of her again, but he tound himself needing. She led him but lights were on as if her parants would be back eppr. She took him to her room. through it to the small greenhouse, and pointed to a bushy plant with a langle red

her herivorn, was spiry, sharp, and clean Boyond the class wells over his head against the class colling the rear was beging run in here the light was green share was a stilness. He surred abrupty from the cowinhouse and looked at Cary, who was standstand to say 6 was upt a flower but he said

He mached out and touched her cheek. and a look of terror crossed her face. He wanted to shout, 'For God's sake you don't have to be atraid of mel! His hand left has check and went to her shoulder and she now with his hands on both her shoulders fumbled with her clothes and his own and

batwoom he had seen on their way in Ho streams and again he heard his strange

has so take it back, he says to hemself

Mrs. Davencort had to tell him, she pouldn't make such a territie decision by horsoit For down stre pullet off, trying to flurid normal but it was no use, and brully sho know the had to reli two. They could take

He turned other, and a low wordless on carno from his lightly clamped lice. Ho tols over her ears. When Cary carns home. he pulled Mrs. Deverport away from the door and stormed out to meet Cory at the back. of the house, where the was parking her behused it through the last standing wall of her

out after their daughter It was nearly ten when Cary knacked on Whitman's cloor He opened it and stood

She teld him and they looked at each other Whenen codded and metoned by her

shoulders drawing lines under her over 15th the table while he heated up leftover polmass. She was working for familiated her what to do, where to go They would have if

122 DANS

aborted he thought and he knew they must

mas at the nursery it seems impossible for

He sees Whitman crossing the drive behe starts to go to him. He has to see Cory

plone, have a private talk with her maybe in up manipolds or some damn tring. He dissess

boy is eiting on the wagon, trying to dring

across the drive to the barlor house, young 'Hey Dad we've got to go in now Morrows

The san starts as he drives track to his percritif house if a wherd pounding rain Only after he stops does he make that

po on the this, you know it it get obvious. En opychological. I's that senate. You have "I have rightmores. Doctor About drag

"Mr Emilald, now that you know shee

Cory happened the thinks, and he feels. From the shelter of the perch Whitman and

She tits her head back, and the ron folis welcoming the rain CO

As it is Brody says what we now know search on a letus older their twelve weeks is ways to study a living fetua.

ter. So you can abort a fetus seventeen or explains, when there is clear evidence of

Athough learning about how fetures develop is essential to making difficult moral side is not interested other. There isn't going make the ACLU change to position in ests

Libertee Union program on abortion. We ologically I don't timk anything has changed hopey has feet isselen, as he stambled back

trassfroughs like ultresound lets heart available only since the Soverdee Baruch Brody hymnel was "prouped when lold of tracitionally have detended those who can not protect their own and Moertino. The latus be such a person DO

INTERVIEW

percuration system depends very much on ples require careful preparation, while good ones are prepared very pasily by contribut-

After this programmen procedure, we mremarked the designated number of riggs. eter into the women's uterus, and we freeze

Oreny Does embryo freezing morows a

twe will not progrant. When we trouge the cause many of the cell membranes have transfer back yet the patient. With freezing

town of source persons to twenty persons

freezing. The data available suggest that

tages? Would you freeze an embryo for a \$150 five year-old temple consent on head

problems. It's unothical to add pecole who don't have difficulties Gray: What was your myolyament in the cel

Linded States This was in 1981 yeary rear's

torally decimated and would want to destroy forcet 11 be back in three months. See you

Cleary. What was the reaction when the staff

was on a be of a high and couldn't control ation-this drama stratched over three con-

Own! Have fina Rosh embryos stready Trouveou No not yet, they so still in the lexuel retropper storage. Lam still weeting to be ad-

Otter. Your chip hen been successfully

there's a sum problem. We have to defry-We also have to protect the membrane of

factor is that the obsomosomes of the egg Great Is your from close to perfecting a

technique for egg freezing? figureson. Yes, but here comes one of the

*Lactins and Gardismus, below I continue to shower my largess on the peoples of

his bindrickour current situation. Everybook then embryos. But the laws of the state of Gress: Should you perfect a technique to

Traumage: With any form of recleption or fogted, and the petient is normally rendered sterie in 1986 we will be prepared to offer

Greek Theoretically how leng can a human Trourson: Indefinely, there's no known limit David Whitingham and Mary Lyons in the raciation (a kind of natural rackation that ore-Orrest Lerfs takes that thought further Intergalactic trival may require voyages of hum-

commo unvestes are creatures with funcwombs could perhaps understand a mes-Once Could within capsule filled with hu man embrace be used during a nuclear

Truspers Yes I think on Ovenes carrot surveys all of the resulting recipions but capeule or seletito with the embryos aboard Thoras no chance at the present time that Onny: Ectogonesis is not a pre-2000 event? panneur 2500-t s not a close event

Travescon Wolf, they much use them so tro-

Greet If Victoria is a tougher state, in terms of metrycons, than Australia's other six states. Troumson: It is a little bit like Chief White Halfcet, in Catch 22, whose tribe was always livno near where of was discovered "After a while, they dipredict where this Indian tribe. Finally, the whole tribe was surrounded by

You'd have to provide the transsexual with harmonal replacement therapy, and

to out the embryo in the appropriate spot. That spot is the bowel.

States back in the mid Sevention, the N64 We had to develop our own funding eyo immateral medical scene was actually

Gever Do you personally have to go out and

upon removal? how long you left it there I mean if you let an empryo implant in there it's going to

Orans How will IVF Australia help your clinic Tournson: Vicini Bakterris meksation was froit

two batters. We could set up a successful We'm in the process of setting up a set-

the political system so that I could do re-Circuit Recently your clinic had to react say-

to rowny a transplanted embryo to ferm is Trouvent Theoretically, the patient closes t

have to be a vangageual Presumably you Greys No. let's take a ruman

Cleans that let's the change ally take a human trate the mouse which brings us to the

Quest So you would have to remove the enbryo from the eye after it has taken hold? Troumpry I wouldn't put it in an own in the test place. I'm sest eavyrout a very difficult to

Troumage: Because it is isolated from the rest Traveson Ves it would be it depends on are rather few privileged sites in the body in those sites. Developing a male pregnancy, find other privileged sites Owny. The brain's also privileged, ant it? Traumepry: The brien? Wall I don't think any

Orms: You know like Athena popping out of

newthrally it's a turns technical problem, and ethically a major dilemma Greys. Are maje pregnances medically not

tain that doesn't stop a transsexual populating or even man married to women who

Own Changeonally would dever be pos-

revision. When pope are in a very ormor

Orser. A below out is born with all the ecos Troumson: No. I don Lithrik so It's all Finglized Oren: Do you think society will become in-

meres of this "brave now world"? Trounson: Yes: There's a logical series of press trumpeting such phrases as 'miracle

bith or missole hopponing. The spen scon reskins that this is a departure from what

There's been a fremendously negative re very medicable finally there's a certain

Own Are we giarring a bester perspective nght now?

expect another pulse forward in progress sion engendered by the silicon one; which

> élt's much easiei than by using reproductive

You can psychologically control people in arry way as a group.

Ower Aldous Hunkey suggested in 1902 that Trouvers. We are along way from Exave Mow

we could grow embryourn alred tube, meny

of people and then working on them psyover have by salective breeding. You can

should be prevented at all cost. DNA inserfrom may trigger steedutely unpredictable

events in the genes, possibly producing venword effects that are then when table, nght? Qeser Dici you ever anticipate your meteoric

Transport No. 46 a child I visualized myself.

Dress I m not gute convenced that you could abandon the international spotlight of NF and Traungon: Well, we can assess that only when made any money out of my work as a mem-

Green II someone gave you the funds to morrow would you buy the farm? Green Before your referenced to the form

Trouvency: The many opels of the own rewaterh-and they so not the goals of the to surgically inject sperm under the zone having sperm that do not fertilize eggs and would involve using sport taken directly

The field major goal focuses on genetic delation, happing to identify those gene desuch early datection to humans. Currently tinue to work in the held of human reproduc-

and then put it on the doorstep of people in

You can apply it in the human if you wish Over. Assessing the last eight years, how Triumpon I would containly after the way I between 1979 and 1981 Those years roofly my memage. I've always segueted that

of it, the science. I wouldn't want to do over del the fest time around DO

TRAVELS

Continuate intermed. In the property of the pr

Boe anything? Kyla shouted Gerald Mekkyl the water from his evi

On the Loop and The microscop Thickle devices with Present the Concept of Internet with Present the Concept of Internet spread ways in year, under under present of too in all criticolons. Further inhall encommunity hastes of deat number used patterne on the internet present the expect of the present sheatify around the expect of the present policy invancing, optiming white against the weedlan horsector. As soon as no present that shows years, the coalled death of that proxy resides, the coalled death expects the present the present the present the present the present the present the weedlan horsector. As soon as no present that proxy resides, the coalled death expects the present the present

that snowy peak, he called down septiably in lo k/ys "I can see if. Wereingt on course of Good Let's move thit k/so hodered. "The company clean haves gothing a little lendby". It Through the tenocutiers. Garrett look a " vi

he wondered. Pais amestone upshrust from an account seabed? Amesia on paids? From below carns the whire of the rife. "Kyle!" Claimet seurg other shough frebranches hit the ground and braced him-

"Kylal Classet seurg does hough the branches hit the geoond and boxed himset agents a him with post down it he as a way Kyle was banding over the sometic body of a cray hardes arrival Hey biother?" said Carrett anocculy "I'm day I'm day," Bill hotding the rife access he heaving chall. Kyle kept stamp

across he heaving chall kells begindering at the best if Elicibed as through it might weighted much as a man, but it of proper and your viguality marked. A dozen or more loss profused from the opacity area dozen or more loss profused from the opacity brain and from adding in a pacific fissification of and the property of the day was self-property of the day was self-property.

the trees and it was perforated with fur detats of side.

His breath still coming in guips: Kyle six "Those gradies must do them for eyes at

Those gestives must be their for eyes where each mouth in he pend one of the oble coan with his kintle.

Scanning the woods: Genretine locked here and there a not their locked unnaburally thick near the base was a something had wreapped.

read to base as a screaming rac weapons read around the trunk. Fire these more of them cut there?

"A bunch." Kyle stood up from the servan

If charged you?"
If charged you?

These fasts just right introduct a more like a brook in low gover granding oforg. When I needed it has others headed for the times. The descent from his vision of the crystalline mountain observability graph scrame kill. Garrett shallow he stripped the patter back in as holder but let the lisp unfastered. "Come on "saud Kyle horting jas pack,"

Corne on seal type control to just of confriences they it they access be largy. All that alternoon the aid grow interest size along both about about them, all the team in alternoon the aid grow interest to be in the about the properties of the team of the about the aid of the aid of the aid to the aid of the aid of the control they are and the undergrowth more space on the size of the aid of the last they well and the undergrowth test they well and the of the aid of the test they well and the other or market how the named the ultring bestellation report fell.

I didn't "Kyle policid at a chunk d'undissolved powder in his steer "But I couldn't east und it grabbed held of eas to find out" No. I don't auppose you could "Only..."

"Only shar?"

Taken thinking about that peck of sewergers, the way they held me uset land
armauch to take the bone and then left migo.

it was as if they were being carret not to but time flas dainst smell deed enough ignoring his brother is sandam. Gerretinasted. "But what about all those other beasts—the branch werkers, the ring weachers, thing you be

acare up to drive up out of their remoney Or maybe they sail want to find out what sort of extress we are.

"I could be they want to choose meta-

physics. Kyle scotted.

The point is we don i know. Garrett see

They're as deep a resting four as we are streem And the origitation would not finish to sold flowly got too course to reflect to sold flowly got too course to reflect to the form of the original sold and the sold

through a cloud

Kyle tised him with an arrused glare.

You is not turning into a scientist on the arri

You're not turning into a scientist on me are you?

"No it's just—

Expany what it is, and it bothers me, soo

By the half as much as a wealth bother me to get stack in a lateration or old in some conviction patch of woods with other scaletests between except tube, as powing the same long for 18ly years. What I want is to likely seeing through rever sow bother I can't want to plood doorg in bootpress has other guye have made. This was the seeing the This was made so much and was make so

"X finally happened. This year they've all been reaching."

everything, you'd never get away from Earth And then you'd never see that roadway of limbs up there, or those orchide growing in the creatives of the trees, or your with-

"Or the butchered anereals" Why close that keep nacrong you? A lew

places. What do you expect? A pronc?" Kyle.

Correct looming dark expend the blace of Garrett clid not answer Leaving off his googales, because he did not were to soo steed though narrowed eyes at the tery

pela tranqui mourrain Each time twy stopped for a rest for a chinic for Diamott to climb up through the

day watching a band of scavengers swarm

story eyes. The news pets cut through the Despite the frequent kills the ranks of sharlow erreports stations them brough the woods kept swaling. At right those pur-

Garrett bellowed, tugging funously at the have been ambestadors githening for a

have been drawn by the light. Staring out at them, the typhem spoke rarely and then only nowhere, for the gulf between the brothers

Transmit your pages at the heart of the widomess," said Kyle one evering after a day of almost corretant battles

together subdue his sense of honor until they

ing with this clark and musclerous woods that I had become in his imagination a kind of On the lanfo day out from the station they

ancountered an even larger breast They

€7he watchers overhead kept stN; below, in every direction,

stoallby shapes crept from tree to tree on the forest floor, drawing

his pastol, he was sheking too herd to aim 9

percent at each end, the skin a sullen rod on by one set of process sympped as harged

undorbrush. the lesser beaats giving way in Looks Bio trouble " said Kvie shrupping. for Without pausing the greature paurity into

poster dractly above from and dropped rise unfuring a thick blanket of flesh. Garrett

socis. He belowed again but Kyle lay mo

the flesh, chopping a hale facuph until he he had carved a way of except Kylo was cut through the ragged opening

casaum's oil Slowly he loosened his fin gers cleaned the blade agenst the fathe of his stammersus; and sheathed rippoin at his

Taust went to go back

Not Garne round I don't want are New years brother new Kvia restact on

arm on his heaving shoulders and spoke Ittle ways leave the pre of meas beford

tol of his beaution, and his body had cassed trustgood away from the score of his buscle-

were still. Yet Gastett elept poorly, troubled Kyle was loans pasence Lock how

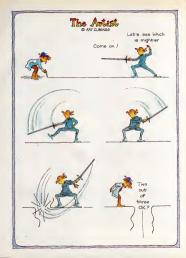
Garrettehrupged 'Allong day Maybe a day So if we go double time we could make

Gwyng way to his arrowr Kyle said. Tim the outing What's the metter? Are you break par? He served Corrett by the shoulders

Gametr could feel the waters of hystoria.

femali to speak painty. I don't think its

mob anowl or like moths they might simply



worth the cost anymore."

two blind men stumbling forward, carving I'm not just thinking about last necht. I'm After giving him a last brufal assessment

out destroying whatever threatens you Where? Early? The job's already frished there An asteroid maybe. Or one of the idony

Kyle slung his own pack into operation and

traveling. Well I still do. And by God I'm with shoulders brushing, eyes avertest.

I'll sust have to take my chances on that derness code Clarest offered. You went me Kyle spat in the dirt, then earsped his boot

across the stain. You wony about melving glared at him with over brusped by a sonsp. of betrayal. Garnet took the first step. A mo-

After less than an hour of spatery hiking weight of his own sprorance. He leared against a line-at least northing could kings food? With so many they would get only a mouthly of him agrees. And suppose three merely wanted to sough him, speak to him If he could bear to stand at II and let them ewarm over him, as the solvengers had

perhaps they would be estatled and as away perhaps they would interest a measteed aid to exest mediately forced from open again, 'Go ewie/The shouled. His beast was clearthon

They crept regrer. He could actually arrest cept the occasional creaking of a limb or the ecrape of heavy bodies own the cround



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Study brutes. Because of them he had klometers away from the station and no map

The watchers overhead kept still Below in every direction istisatiny shapes crept from wilderness He fired withy expuesting off

lesh no freed Then he elopped formiod Shi shaking he pushed away from the sive nearly fired on them as well but he re-But no-the had to find Kyle-lead hen to

natety-aid him about this horror Facing about he set off at a feet imme dialety he felt better as if joining with Kyle provided the place they had superaied then begats that were skullering again in his woke. make sure he was headed lowerd the or gwen slow down and so he felt pertain he

in the sendy bank of a crook were still col-Dusk was gethering the black fog among study value against the gleening been of

Knowing it would be suicide to sneak-up 136 DMNI

the det where he lay on his belly hitle and herather's lacas but he stood up provide across

prepared into the sights of the gulf as are. Then Kylo rose onto his knees and galled in a subiliert voice. "Back from the

The two collided with such force that they

When they finally rose and dusted from

it was now quate dark. The brothers fol-

♠Ounk was: authering like black fog

trace when he saw his brother motionloss.

his fighter's body starkly visible against the oleaming white mountain?

lowert the majore beams of their helmet lights. good destance from the slope. Garrett could tell that whitever made this hill gleam so brightly was not stone. And not sewels or Branes " seed Rule softly, is whole moun-

An Gerreit's vision cleared he gazed shapes were not territor, but the color wasa calcium sheen poished sever-bright by air

Where dithey come Issue? means up the slope. The scavengers hauf

clarify in his hand. How long heat they been elephant graveyants the mass suicide of

ments, the Porrien and Nazi and Frontine holocausts-but nothing earthly would explan the reging of this deathly monument climbaro, its passage rousing a fairl clatter. The brothers watched it labor up beyond the

Releasing his breath with a hiss. Garrett road. Think of all the deaths it took.

CLMSS I see now why the old-timers wouldn't talk

about 6

They fell silent their twented headings a dead men, lost in here, that no idea which way was home." Gorret saying. "I word crazy

everything away erase it and start clean At length, turning his light away from the

In a hashed voice Garnett said, "I'd like to at down and study if and not budge until I

I'm more scored of beauty than mud-

Clarrett redded ellerely, never salving his Good. The straps of Kyle's peck crawled

slope. He had been coming to this place for

bodies each with its shiny offering the of a teresto bill or bed next? Or was a the beauty of intellect of pyremics and price?

And if the work of mind, what was its inhu-Yes "Gerrett said. I can find the way." cause they moved so switty or because

nows of their staughter had apread through the formal the becamers were tarely stalked carcasses in their wake. The trek into the wild zone had taken them eleven days in only needs of diss protecting them from the could not not his mind of the mountain of bone. The peak rose in his memory up and

NATIVITY

n more efficient, less damaging way to ngturally because it takes a lot of anexpy But at anya Dr Charles Bryan of the Toronto Box Children's Hospital one of the devel-

of preemes whom conventional respirators

makes the machine with 1,500 between tan hospitals in the United States and Can-

Center, in Japan, is to supply preamers with the lung surfactions they lack. To accomplish that toot. Telsuru obtained surfactors from colved lungs and then breated it to ramove most of the protein (Protein might react with portion of the surfactors benefits the lungs (

severe respiratory classess syndrome Eight That success speriod a series of experiments the results of which are now coming versity of California in San Diego and Chigrants Hospital in Holonia Finland, to the reares trooted with that surfactant had surfactors from citives lungs reted less on evered group also had fewer mild brain

Other croups are working on completely

man-made surfactant and testing it on any "If the treats work out " says Dr. Alten J. Gold of Abbot Labs, "It could be on the market in

tour or tive years Wen all the intervention, preemies-who would be soleted it still in the womb---onter system learning what preorming feel Prev: A. Gorsia and his collecture spent two years recording preame buhavior in exact 138 CMSI

ng detail. They mounted a portable comand connected to the betty's electronic After nearly 5 200 separate observations

citiatiese shows otherwise. He found that soverel minutes after routine chest masheart rates and lowered levels of oxygen in the blood Social interactions such as stroking or hugging cause arrive distress. Indead, many joutne interventions caused biotchinees gramacing, imagular breath ing-sit signs of physical stress

 Soveral myriutes after routine chest massage, preemies often showed decressed heart rates

and lawered levels of oxygen. Social interactions,

such as stroking and hugging, caused distress.

saver. It has the expectal shape but not the creases and tokes at the 329 term human nervous control and conscious thought ---

crash says Gorsky Two had balters so

ments at Harvard Medical School Working with Lewbon and other NICLI rusting DIV healther. The repairment was based on behavened observations: A researcher would watch a properture record how the boby reacted, and then suggest how to make the

a rapple, for example one with arms and logs feeing was surrounded with a cotton proemes who were treated this sery had

Allo caus the improvement game from limand sensory input the Gorski, she conrautes that programs trains lack the ability to block out stimuli. Alls doesn't say that care

looking at a fetus displaced into an environment for which it's not evolutionarily adapted "says Ala "His autonomic nervous

and put in place, survival will be impossible

lungs? Theoretically that's possible with a inchrology called sales corpored membrane oxygension (EGMO). Essentially a body purpos devoen into the blood and hamoritages in preemes Stit. a low oxnexts day that with years of retinement

your freough the skin in the lungs purpos membranes to parelling bods. That townstor is impossible in immorate lungs because the Lungs are the only organs unable to tune

tion in preemies 16 to 20 weeks of sign Thus FCMO, pie planesu of viabely would take Navetheless most experts say that med-

months is Neus must spend in the words. The pleounts provides the felus with oxygen tors won t even discuss the possibility of rebaby more constortable. A baby who was

"it's ally to even think about keeping a propriée afive during the first inmester sava Dr Jay P Goldsmith, charmen of pediatrics

the money and well make anything that

has nover been zero. It's not zero for any

2010 argues Boston City Hospeal's Eliza mes are trologically perfect but are form

If we as a society keep an eighty-five

year old with cancer alive, she adds, why One reason may be that NICU care is one

emoleng diabates alcoholand drug abuse ammogments for delivery---all for \$500 to

Dr. Startey Down prolessor of maternal in another. Most keep a salgty margin by not low-beth-weight babes, most of whom are

of Scanners Institute of Medicine recomnational commitment to ensure that all prag-Technology has clone just about every

Service Devel Durantemper (B-Winnesota) Yet the Reacon administration, which claims to support life has consistently out or

It contributes to this country's mink of sov-Finland Sweden Japon even places the

one. We use high-tech and expert care to

Other makes soom less likely to have an

€The Ima

between abortion and preemie care is becoming increasingly slim. Many hospitals abort

fetuses in one wing and save few weeks older in another.

Court upheld the eights of women to have and her doctor until the onset of less veibltrouble is that the limits of watchty have coming moreography slm-so slim that many

choice arguing that aborton is no issue of abornon have lower infant-mortelity rases.

reme " seas outse Lawton I fo a little too close to homo

a few minutes. The fetus may be only 18

is technically alive. What should doctors do? No sangle policy exists. It is determined has

For example Dr Lu-Ann Papels of New

Other circlors take a less figid year. At crams whose heartbest construes for more "I's drawing" says Dr. Blown "It's very difficult to watch a partectly formed yet proviable beby by to breathe "She ackle that

mataken about the stage of her programmy The child was later adopted. This was not If all this sounds depressing, remember

recent furnaround in premiouse care. Soadjed native of prometive care mass than

saving preemee just a couple of wooks older and would be nearly as dovestated as she

set " she commanded them." I don I want to

thing is important. My baby's alvo! DO

MARS OR BUST!

MARSCAPE: This rocky stratch of Mars' surface is coated with thin ice Thans is enough water on Mars to support one million people.

The Mars Colony Needs a Few Good Men — and Women

From Controller in administration way on the Mark May We have been also been

universa

Tomorrow*s Columbuses on Miggallana in 1900 start them on their way to the one by the start them of their way to the one of the one of the one of their way of the one of the one of their way of the one of the one of their way of their way

might help tutor the Young Astronauts.

Perhaps the children you help won't go to Mars after all. But all of them will have to live in tomorrow's high-tech world. Union

we do something about it, an appailing 90 percent won't be able to cope. They are graduating from high school today woofully littlerate in science and technology. They won't be able to operate the computers, robots and lasers that will be standard equipment in just a few years.

The problem is urgent! Encourage youngsters to sign up in the Young Astronaut Program. Or send for more information yourself. Please write:

YOUNG ASTRONAUT COUNCIL P.O. Box 65432 • Washington, D.C. 20036



GAMES

By Scot Morns and Phil Wiswell

It's time again for our annual noundup of the year's bott new games and divisions. We'll give our chooses for the ten bost general games fast, then the best computer and video games. The features francticities this year's best general games. First is the risk of the

fore inventor Good sees can make it on the market whout the improvement of a tag garns company. Set offer the last choices they year go to "find shot" produce pleases they year go to "find shot" produce pleases from protection (these incompany). The second tend in the Lade-out of electronic garners (not a region between

powward detr. model of the MF fly you're able to rea of party planes, in wheth the who the rea of party planes, the second the whole the whole the whole the whole the party planes are particularly planes. The party planes are party of the party planes are party planes are party planes are party planes. The party planes are party planes are party planes who will be party planes are party planes who the party planes are party planes. The party planes are party planes who the party planes are party planes are party planes. The party planes are party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes are party planes are party planes. The party planes are party planes. The party planes are party planes are party planes are party planes are

spoon-bending period in Westington, OC or wine desting period in Mill Valley. Within each obsegrity below the werrants are lead alphabetodly, not by preference. Proces quoted third to be on the high sets where each of the deposition.

TIN HIST GENERAL GAMES!

A service (Res CSC) Dallers TX 7027.

\$759; Reviewed in the colorer lief, but for the first material lief. Life from the first material lief. Life from the first material material lief. Life from the first material material lief. Life from the first material life from the first material lief. Life from the first material life from the first

\$15.95--\$17.95 by mail) This game is to



test percent games, observers from his RA: Football Feet: A Question of Scriptus. Accom-

immails plus worder with you disk in text of a younget But you disk in Nor Koursell with old. Hey word in healinghed god using doe a peecking good obe for me, and disk But you. The does more lake in her leak exporting. You heal not leak you will not with 0 must seld 25. The object is to applied to you opporting. You heal he will not leak but remarking can take to be a wisel of also worders and the control of the control of the but remarking can take to be a wisel of also wording that the posted. If the control turning a zinto a 5, and a 4 sets at 1 to compile. The adds an according direction.

majorating depth and unexpected levels of strategy. The similarity bathwish the name Chase and chase is not accordened in Calab VoR Mystery Gerre (two or more players, Perfor Brothers, \$40). Those told frechts are to back—Miss Societ. Colonal Mustard. Professor Plum, and the

minute videotapia (VHS in Bela) showing selected scarnels between the principals, Webh et alleger for important leads about the minutesees, within a contrast and weapons, but you may also that the proposition of the propos

carried for type was likely in the consense tree; and a good memory will put you will alread the buildy. Dut's crossiness in the same and the buildy. The consense genre on the steen three and the did put on the same three trees are tree propers will not flavorable at a deline trees to do without playing with the wealth of the same of the same the same the same trees the same trees the same trees the same trees to same trees and the same trees and the same trees same trees

4. Football Fever (two players, Orbital Marketing, 450 Latenthe Street Sude 225 Petalums, Ch 48602 SS 56—453 455 by mail.) We are formated to pick this gameety for appropriate walkass For the price you get a felt-covered, backgarmonials board, a vernified wood programments board, a vernified wood programment.





year Mexicus for all son start on page 148

in which belable timekroperg passes, and adoption which belable the control of th

change, 450). The word generalization generalization generalization generalization of Boggle and isolation filed word game landscape individual filed word game landscape, and not enough word information statutes may be a 15-by 70 Boggle board on which you can begin making words from any south only your side moving cartilography or only your side moving cartilography or of their your onnowe latter from the board as even my your pode from the board as even my your gold from the board as even my your gold the many from the board seed as even my your gold term many features are prosted and to solve your distance are prosted in an area.

opponent so that he can't make a word and you can.—The list word the is an imaginative and original does with typecal Mittor-Bradisy high-quality production and a reasonable price.

6. Magada (two or three players. Clober

Socialist (W. W. 2017; 5, 1716—5, 500 et by model (W. W. 2017; 5, 1716—5, 500 et by model (W. W. 2017) et al. surgitation (W. W. 2017) et al. surgitation (W. 201

7 Mental Blocks (Pongee Books, 200 Medison Avenue New York NY 10015, \$1750—\$19 by mail) Dent look for mo of entertainment from this "puzzle and

parts. After your hear 10, a their clearing and makes you may focus to be seen or the heart you may focus to be seen or the heart you may focus to be seen or the heart you may focus to go and the seen of the se

alcound the painting to look at any part. You can take any leas of any oube and cleage rate it as the top left corner, say and then place the other 15 cubes appropriately, so there are a total of 6×16 , or 96 deforming with which one.

The inventor of Mertal Blocks, Audern Lamon and Alley (Bertander of Alley) (Bertander of Alle

of a convenience operate process. You are what is not received and process. You are believed and the convenience of the convenience of proposition when when or processors were proposition when when or processors was proposition when when or processors was when you was a convenience or when you was a convenience or the force or processors or or for the convenience of the processors was a convenience or and the processors of the convenience or the convenience of the convenience of the convenience or the convenience of the convenienc

9. Stage II (Nov or more stayers Micro-Frendry, Stal) The title is well charen The staties accord stage of hima games the instruction bedies even ways. Once you'r played three Pursus, you're ready for Stage II), and the object is not only to get the emests right out to figure out a thereof. Artiset's adjustment promotify and take a one point chip from the pool from permity to wrong queenous) then grosse that thereo connectiv and take whatever is left in the pot whens on his faithful horse Topper? What emment that's been headed by Goorge

ossary if anyone is to get to Stape II-Blok

more Afterword South America. The carriers strength With lower than swalayers the un-

This is a game of matary antior oco-

BEST COMPLITER GAMES United States the Soviet Urean China FuFOR AMIGA. The Amaga is so now that there is no carrie software yet. We provioused the

Graph Craft, which Commodore will sell

Arrana's renge of 4 006. Bo for example to build yourself a palette of 32 Carbbean

process. The most interesting option-cycle Marmany (580 from Cherry Lare Tech







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good, the rest of the band with so hat either he are practice or stink.

FOR APPLE II Under the category of liest Finitisy Role-Rigory Communic Liena of the Year comes United Street of Liesa of the Arekta (200) from Cingan Systems II is a stronger compression of the Communication of the Communication of the Communication was personally in part of the garms the below, our own seeded a series of thousand the Communication of the Communication in account of the Communication of the inspace of inspace inspace

you meet a poor beggar saking for a single con. Do you took inmone or seman terhili to your mission?"
Once you've sinwelled the questions the composite dearmines your characteristics, and for the rest of the game if bloops table on

you have no key of knowing how close you are to solving the puzzles until you actually solve from Havdbat (535, from Accolada) is a two player computer baseball game with such

player computer baseball game with such realists strategy and graphics that you may find yourself stimpling on your fact and cheering your man along. The balling screen displays a view from

The batting screen deplays a view from put behind the player plus is noral window showing falciers and base nursers. To peth you feet select from an extensive repartition of deliveries including off-speed, slider change-up or outwo Then you got an opborod fish low mode or outside The result.

is a single of the promise that you can indice, term inexticate to quantize the Doce the bell has been hit the screen print the field to pack up the adoor, and the physic reasest the boll is customarisely under pystels control. Throwing puts the buden of cooperation on you become

den et appraination on you however wirmers not nocesserry the player with the refleces, but the one who knows is about baseball strategy. FOR COMMODORE 64. Macker (530.1

scenario reada like a story from today's revespeper about leonages costelling corporate competer systems.

The acreen is blank at the start except for we message cocon-cuture. You don't have what to do but you try typing Hello. Or your

special with your first other Lobour Histories Has been consistent currently PASSWCRD is Lobourous of Tool sing. You don't know much more when, where sepected pursees as the passwords, the occupular begins to disconnect you. But meacks of machine. The password wilders

acte of minocles their security a matunctions and you alide in under You know you shouldn't be here, but as you are You can remain understeed by to with a short thought you can

project and story of the system of the syste

discover them through careful observation which is exactly the way true to life hackers must go about things.

Project: Space Station (\$40, from Hisp.

Project Space Staton (\$40, from Hea-Ware) is an suffertic science strutistion involving the planning, design, launch, and operation of a memoral space station—in short, a massen smillator

operation of a manned spinor stateon—in start, a mason similator.
The first stage involves getting a shuttle mason approved and funded by MASA You'll have to stock to bacget in your selection of crise opaprent, and opaper state on the shuttle start and opaper the start of the shuttle start and common the shuttle stight man other And overy detail.

dividual crew mercians fog will retain to Earth for extra funding and to pick up one of 40 deferred research pagests to seri even more money. Unless mast computer garres, there is no engle structured goel nor et there is no engle structured goel nor et there is no engle en ende your repaire notyssey if you plan things affects with control to affects with control to affects with control to affects with control to the control of th

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Before you know it you'll be buying on mange, selling aftert and concluding elabcelle market research on a company's DETA numbers—or you won't be making much

Three skill levels increase the challenge by gwing you access to more morely at greater degrees of mix though the boginner's name is difficult account for most pre-



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