

What is Transhumanism?

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Diderot - "D'Alembert'-s Dream" 1769

- Mind is not separate from the body/brain
- Lower animals are evolving towards intelligence
- Machine minds are possible
- The self is a fictional aggregate of multiple wills
- Minds may be deconstructed and rebuilt later
- Science can bring the dead back to life
- Human-animal hybrids OK
- Sexual freedom OK, including homosexuality

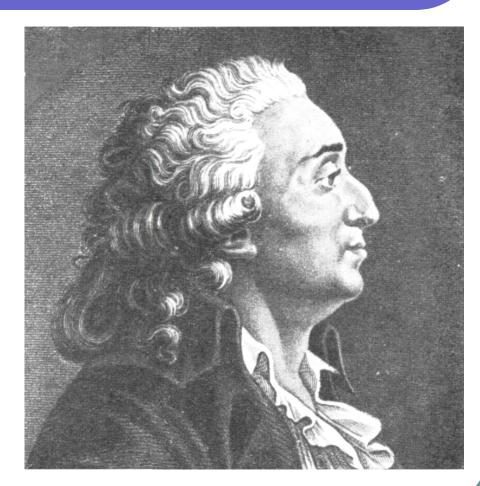


Denis Diderot 1713-1784

Marquis de Condorcet 1744-1794

Sketch for a Historical Picture of the Progress of the Human Mind

- Reason liberates from church, authoritarianism, nature
- Women's suffrage
- Opposed to slavery
- Radical life extension
- Freedom from work



Marquis de Condorcet

Condorcet on H+ & X-Risks

"Nature has set no term to the perfection of human faculties; the perfectibility of man is truly indefinite; and the progress of this perfectibility, from now onwards independent of any power that might wish to



halt it, has no other limit than the duration of the globe upon which nature has cast us....it will never be reversed as long as the earth occupies its present place in the system of the universe, and as long as the general laws of this system produce neither a general cataclysm nor such changes as will deprive the human race of its present faculties and its present resources."

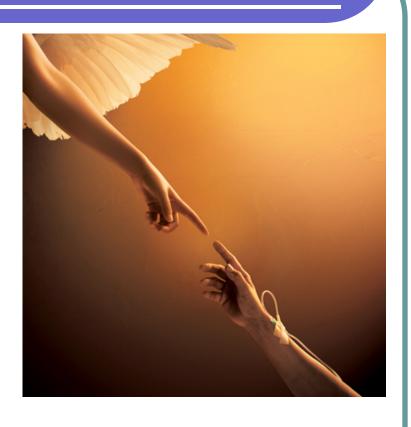
Regiment of the Enlightenment



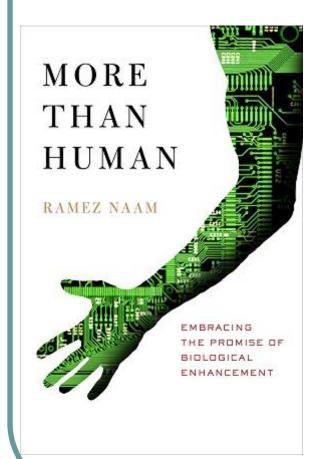
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Why Human Enhancement?

- Curing disabilities
- Health
- Longevity
- Intelligence
- Emotional control
- Aesthetic expression
- Spiritual goals
- Ensuring the best lives for our kids



Biopolitical Battlefronts

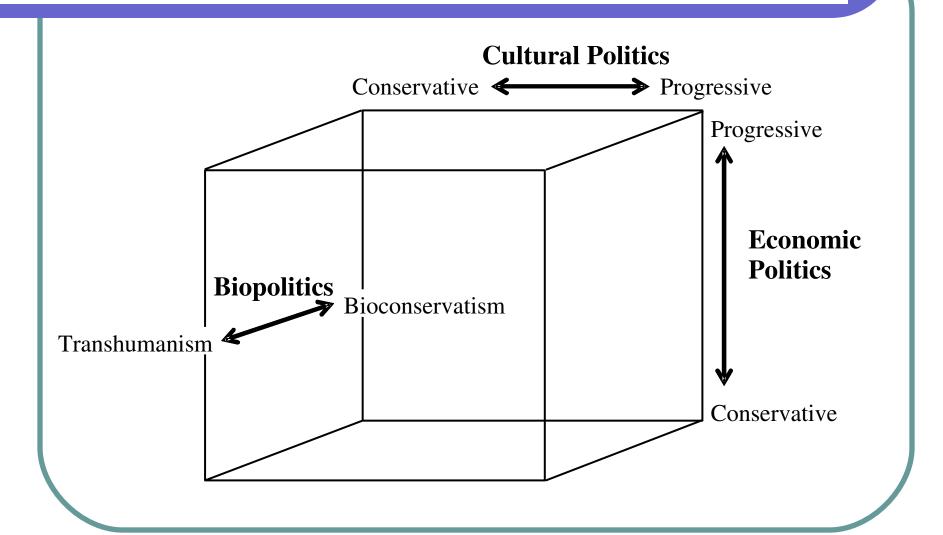


- Who is a citizen with a right to life?: abortion, stem cells, great ape rights, brain death, chimeras
- Control of Reproduction: contraception, abortion, fertility treatments, genetic testing, germline gene therapies, cloning
- Fixing Disabilities to "Human Enhancement": cochlear implants, prosthetics, eye and brain chips, gene therapies, cosmetic procedures
- Extending Life: from treatments for aging-related diseases, to anti-aging drugs and therapies
- Control of the Brain: Ritalin and Prozac, psychoactive drugs, brain chips

20th Century Politics

Progressives Social **Populists Democrats Economic Politics** New Right Conservatives Libertarians Conservatives Progressives **Cultural Politics**

21st Century Politics



BioConservatives

- Religious Right
 - CS Lewis The Abolition of Man
- Deep Ecologists, Romantic Luddites
 - Aldous Huxley Brave New World
 - Jeremy Rifkin Algeny
- Left-wing/Feminist Critics of Biotech
 - Gena Corea The Mother Machine
 - Center for Genetics and Society
- Pro-Disability Extremists
 - Not Dead Yet



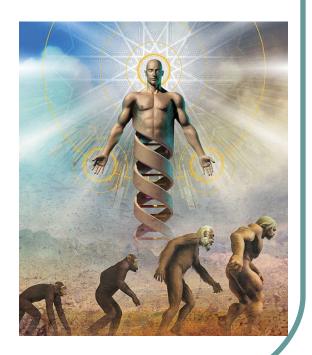
What is Transhumanism?

An intellectual and cultural movement that affirms

- the possibility and desirability of transcending the limitations of the human body through applied reason
- especially by using technology to eliminate aging and enhance human intellectual, physical, and psychological capacities.

Trans-humanists are *humanists* who emphasize what we have the potential to become through reason.

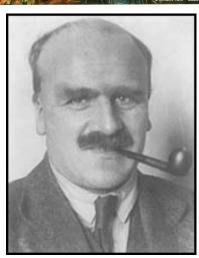




Proto-Transhumanists

- Diderot, JP Condorcet and William Godwin – radical life extension
- HG Wells and Olaf Stapledon portrayed future evolution of humanity
- JBS Haldane, 1923, "Daedalus: Science and the Future" – in vitro fertilization, genetic engineering
- JD Bernal, 1929, "The World, the Flesh and the Devil" – first projection of cybernetic implants

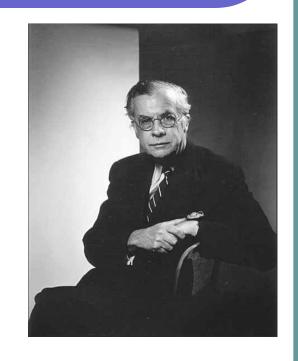


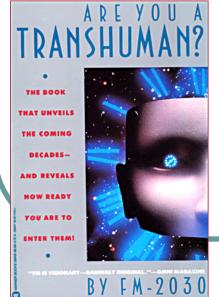


JBS Haldane

"Trans-humanism" and "Transhuman-ism"

Julian Huxley
first director of UNESCO
"Transhumanism"
"the human species can
transcend itself."

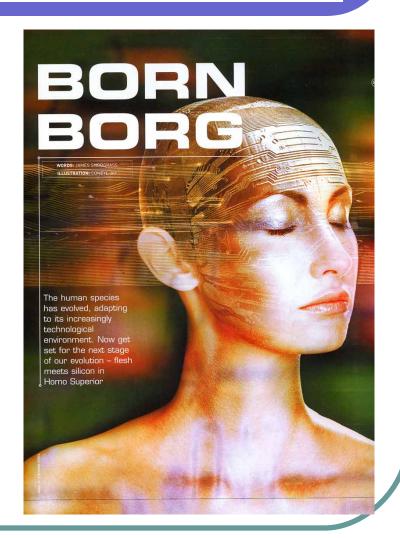




"FM-2030" (FM Esfandiary)
popularized term "transhuman"
in the 1970s

Five Key Contemporary H+ Values

- Pro-Enhancement Technologies
- Humanism & Secularism
- Scientific & Technological Optimism
- Personhood Ethics
- Repro Rights, Cog Liberty, Body Autonomy



Growing H+ Movement

World Transhumanist Association

transhumanism.org
30 chapters, 3000 members

Institute for Ethics and Emerging Technologies

ieet.org

Immortality Institute

Terasem Foundation

Betterhumans.com

Foresight Institute

Singularity Inst for Al



Nasteho Abdi Jumale

Vice-Chair of WTA-Kenya



Gaurav Gupta

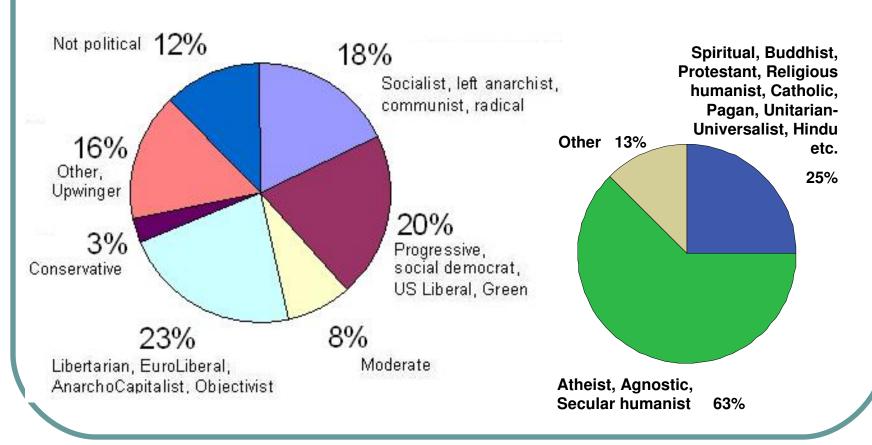
Chair, Indian Society for Transhumanity



Dr. Nick Bostrom
Oxford University
WTA & IEET Chair

Growing Diversity of H+

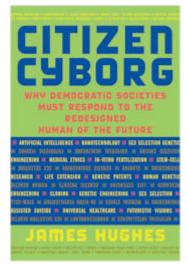
From the March 2005 survey of WTA members



Technoprogressivism

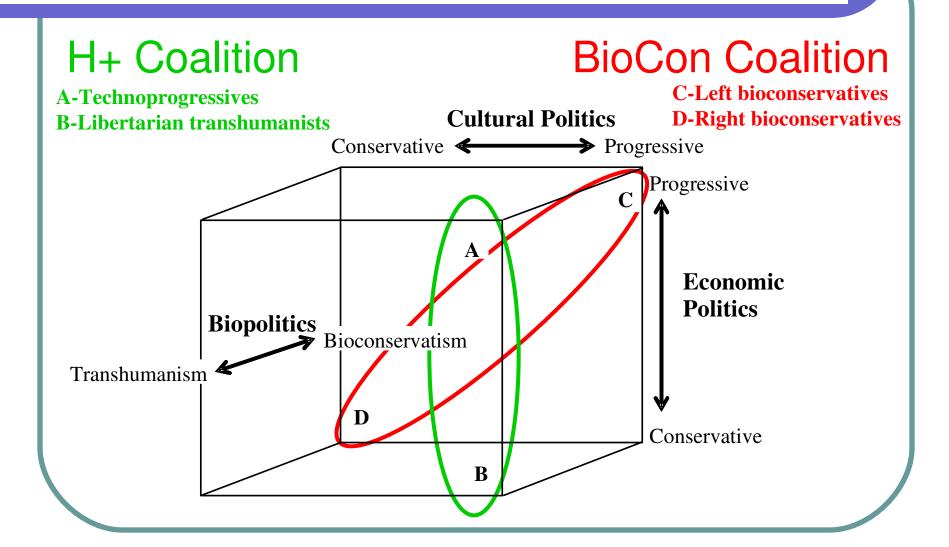
Core Ideas:

- We need equality and solidarity, as well as liberty
- Tech needs regulation and universal access
- Policies needed to prevent and redress downsides of techno innovation,
 e.g. Social Security for structural employment
- "Techno-Progressives"
- Technoliberation list: groups.yahoo.com/groups/technoliberation





Biopolitical Coalitions



Central Biopolitical Disputes

Transhumanists	BioConservatives
Personhood, cyborg citizenship	Human-Racism (or Deep ecology)
Humanism, reason, individual liberty, progress	Sacred taboos, "the natural", yuck factor, romanticism
Risks are manageable	Risks are unknowable; Punishment for hubris inevitable; Tech should be banned

Beyond Human-racism...

- Human-racism =
 Humanness as basis of rights-bearing
- Humans have souls or crypto-spiritual "human dignity"
- Fetus to cremation

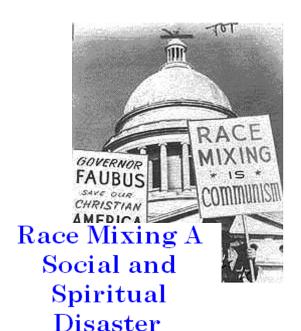


Embryonic citizens?





Race-Mixing Panic



by Lt. Col. Gordon "Jack"
Mohr, AUS Ret.

Part 1 of 2

"And God made the beast of the earth after his kind and cattle after their kind ... and God saw that it was very good." (Genesis

HELP STOP HUMAN-ANIMAL HYBRIDS

"Tonight I ask you to pass legislation to prohibit the most egregious abuses of medical research: human cloning in all its forms, creating or implanting embryos for experiments, creating **human-animal hybrids**, and buying, selling, or patenting human embryos. Human life is a gift from our Creator -- and that gift should never be discarded, devauled or put up for sale."

-George W. Bush in his State of the Union Address, 2006

Help President Bush raise awareness about these terrible half-men / half-beast creatures by these t-shirts and exposing the horrible truth about human-animal hybrids.





Rights Based on Racial Identity

Universal Declaration on the Human Genome and Human Rights (UNESCO, 1998)

"The human genome underlies the fundamental unity of all members of the human family, as well as the recognition of their inherent dignity and diversity."

Is hairlessness one of the human genes necessary for citizenship?



Sorry – no rights!

Coercive Dys(Eu)genics

Old Eugenics: State control of reproduction in the name of "health"

STATE	TYPE OF PATIENT
Alabama	Teebleminded.
Arizona	Inmates of Hospital for Insane.
California Connecticut	"Feebleminded, habitual criminals, insane, idiots, mental defectives."
Delaware	Teebleminded insane, idiots, imbeciles and those with inherited tendency to crime.
Idaho	Mentally defectives, insane, feebleminded or epileptic persons."
Indiana	"Feebleminded, insane, epileptics, habitual criminals, morally degenerate persons."
Iowa	Hereditary insane, feebleminded or epileptic."
Kansas	Feebleminded, insane, syphilitic, habitual criminals, morally degenerate persons."
Maine	Feebleminded, insane, habitual criminals."
Michigan	"Mentally defectives, insane."
Minnesota	"Feebleminded, insane."
Mississippi	Persons with hereditary form of insanity, feeblemindedness, idiocy, epilepsy.
Montana	Feebleminded, insane, epileptic."
Nebraska	"Insane and feebleminded."
New Hampshire	"Feeblemindedness or certain forms of other mental diseases."
North Carolina	"Mentally defective persons."
North Dakota	Feebleminded, insone epileptic, habitual criminals, moral degenerates and sexual perverts.
Oklahoma	Instituti Criminals, hereditary feebleminded insane idiots imbeciles enileptics
Oregon	Teebleminded insane, epileptic, habitual criminals, moral degenerates and sexual pervert
South Carolina	Hercaltary form of insanity, idiocy, imbecility, feeblemindedness or enilepsy
South Dakota	reebleminded.
Utah	Habitual criminals, insane, idiots, imbeciles, feebleminded, or epileptics."
Vermont	Prevent procreation of idiots imbeciles feebleminded or insone persons
Virginia	Hereditary insanity, idiocy, imbecility, feeblemindedness or epilepsy."

New Eugenics: State control of reproduction in the name of "humanness"

"It will take focused effort to make it clear that altering the genes of one's children is not among the reproductive rights for which so many women and women's organizations have struggled." - Marcy Darnovsky, Center for Genetics and Society

"They" Want Your Jobs

MISSING



A Future for White Children

Description: Blonde, red, or brown hair, fair skin; innocent, inquisitive, intelligent, trusting personality. Corrupt politicians and minority specialinterest groups have abducted her future. There will be no future for her in the Third World America that our nation's enemies are planning, Let us take back our country and make it great, clean, decent, and beautiful once again; for our children's sake. The men and women of National Vanguard want you to join in this great, patriotic effort.





Supertots And Frankenkids

On the Rights of Those Not Yet Designed

by Erik Baard

April 23 - 29, 2003

The complete accounting of the human genome, a de facto quide for building a person, met with predictable fanfare last week. Its celebration marked 50 years since Francis Crick and James Watson published their Nobel Prize-winning description of that iconic spiral staircase, the double helix of DNA.

"After three billion years of evolution, we have before us the instruction set that carries each of us from the one-cell egg through adulthood to the grave," Dr. Robert Waterston, of the International Human Genome Sequencing Consortium, told a crowd at the National Institutes of Health.

With this new knowledge comes





Human Nature and the Embryo

"The uniqueness of human nature is at stake. **Human dignity** is indivisible... every **human being** is possessed of an equal dignity ...at every stage of life..."





James Dobson

Missouri Vote to Ban H+

- MO referendum to ban hybrids, cloning, transhumanism and human genetic engineering
- Vote Nov 4, 2006

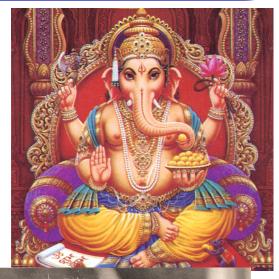


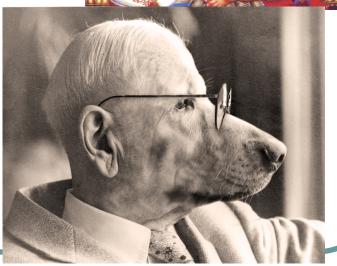
Brownback Bill on Chimeras

Which prohibits "human chimeras" which are, in part, defined as

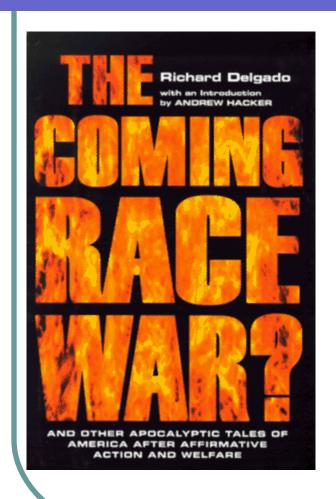
a human embryo that consists of cells derived from more than one human embryo, fetus, or born individual

i.e. it outlaws all reproduction, since a mother and father are two born individuals





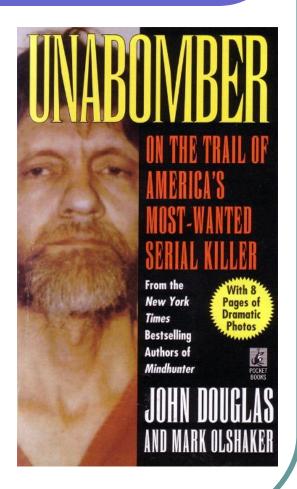
Inevitability of Race War?



"The posthuman will come to see us (the garden variety human) as an inferior subspecies without human rights to be enslaved or slaughtered preemptively. It is this potential for genocide based on genetic difference, that I have termed "genetic genocide," that makes species-altering genetic engineering a potential weapon of mass destruction." (Annas, 2001)

Violent Defenders of Human Nature

"Human nature has in the past put certain limits on the development of societies. But ... technology is developing ways of modifying human beings.... Getting rid of industrial society ... will remove the capacity of ... control over human nature" - the "Unabomber Manifesto"



Enhancement a Crime Against Humanity?

George Annas & Lori Andrews: make human enhancement "a crime against humanity"

Senator Kelly:

"Are mutants dangerous? We license people to drive."

(X-Men) Dr. Grey:

"But not to live."



...to Personhood

- Persons: "conscious beings, aware of themselves, with intents and purposes over time"
- You can be human and not persons: fetus, braindead
- You can be a person and not human: great apes, AI, posthumans



H+ = Radical Human Rights

- Personhood, not race, gender or species, defines citizenship
- Citizens have a right to control own bodies & brains
- Goal of governance should be to help each person fulfill her potential



John Locke

1632-1704

Technological Self-Determination

- The right to know how safe and effective technologies are
- The right to use technology to control our own bodies and minds
- The right of equal access to technological empowerment







Legitimate Risk Concerns: Safety, Efficacy, Equity





Make technology accessible to all

Ensure technology is safe and effective

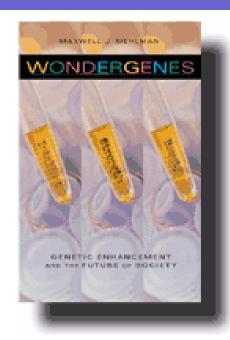
Yuck Factor Stops Critical Thinking

Bioconservative risk estimates are grounded in yuck factor so that tech bans seem only logical policy



Max Mehlman: Wondergenes

- Global ban on genetic enhancement for equality reasons
- Mandatory, global gene testing "like Gattaca"





Maxwell Mehlman

 April 2006: NIH gives Mehlman \$770,000 to develop gene enhancement research policies

Christian Right Goes to Town

Center for Bioethics and Human Dignity and Baptist Press:

ANALYSIS: NIH eugenics project a flashback to Nazi research

May 4, 2006 By C. Ben Mitchell Baptist Press

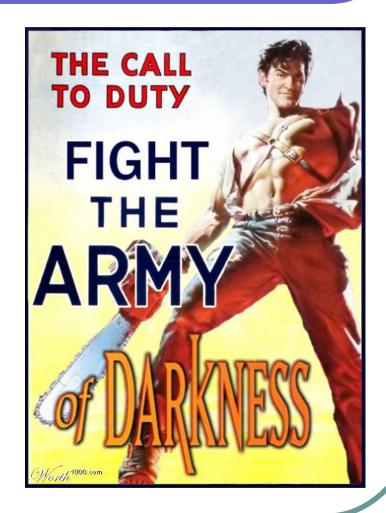


Transhumanist Conspiracy

Family Research Council: "NIH Slush Fund for Transhumanism"

America:
"...shocked by NIH backing of transhumanist ideology."

Concerned Women of



Mehlman an "H+ Leader"

Christian MD: Dangerous Eugenics Research Being Funded With Taxpayer Dollars

By Mary Rettig

(AgapePress) - The executive director of the Christian Medical & Dental Associations (CMDA) says taxpayer dollars are going to fund a dangerous area of scientific research. The National Institutes of Health has given a grant of nearly three-quarters of a million dollars to Professor Maxwell Mehlman, a scientist at Case Western University, to assist him in studying the genetic enhancements of human beings.

Dr. David Stevens of the CMDA says Mehlman is a known leader in the field of transhumanism, an area of study that the Christian doctor says has "creating a post-human future" as its goal. The quest of transhumanism, he explains, is to move into that future "by first connecting human beings to computers, essentially creating cyborgs -- part human, part computer."

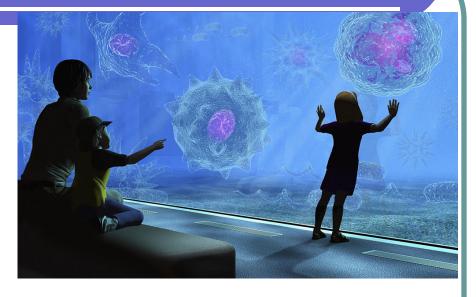
But the transhumanists' ultimate objective, Stevens asserts, is "to be able to live forever by downloading your brain into cyberspace." He says the U.S. government is highly interested in this far-out field of study, and particularly in the area of human genetic enhancements.

Enhancement Policy Agenda

	Cultural Political	Regulatory
Innovation Safety	Promote technocitizenship	Facilitate HET innovation
Access	Establish rights of the person to tech enablement	Promote access to HETs

Promote Technocitizenship

- Political opening for strengthening math, science & eng ed
- Familiarity with sci-tech reduces technophobia



Tech-familiar citizens are less Luddite, *and* more competitive

 Help students, NGOs, parties, journalists learn about benefits of research, and engage informedly and constructively with HET issues

Pro-Science Citizen Lobbies

Mobilized citizens can be allies of science policy

- Disease lobbies
 - JDRF, ACT-UP, stem cell research lobby groups
- Consumer protection groups
 - Critiquing corporatized science policy and regulation



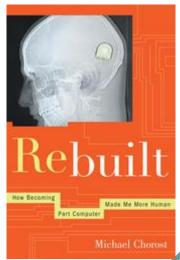


Constituencies for TechPro

- Disabled seeking assistive tech and cures
- Feminists supporting full reproductive rights including germinal choice



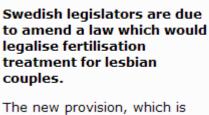
- Drug law reform advocates supporting deregulated access to neurotechnologies
- Scientists & health workers alienated by religious right and Republican restrictions on science



More Constituencies

- LGBT community seeking reproductive options
- Tech-friendly ecologists supporting tech solutions to ecothreats
- Senior citizens
 looking for cures for aging

Sweden to allow IVF for lesbians





Bioethicists Moving Towards H+

- Religious Right (Schiavo) and Kassites polarize bioethicists
- Bioethicists becoming more H+ when forced to defend autonomy & technology against religious and yuck factor arguments



Arthur Caplan: "...enhancing intelligence or changing personality or modifying our memory, maybe that should be available to everyone as a guarantee of equal opportunity."

Facilitate Innovation

- Right to research
- Defend safety & efficacy, oppose moral police
- Support funding of HET research initiatives
 - Embryonic stem cell research funding
 - NBIC
 - Neural prosthetics
 - Human Cognos Project





Antiaging Program to Secure "Longevity Dividend"

- Multi-national Manhattan project on anti-aging
- Olshansky's about-face

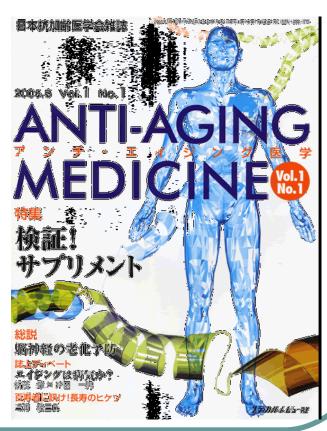


Aubrey de Grey



Jay Olshansky





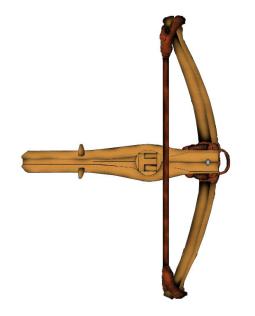
Pursue Universal Access

- Defend & expand universal health care
- Expand access in the developing world
 - Anti-retroviral drugs



Tech is not the problem

- Greed, racism, inequality, patriarchy, authoritarianism, ignorance and superstition are the problems
- Technology only opens new battlefronts



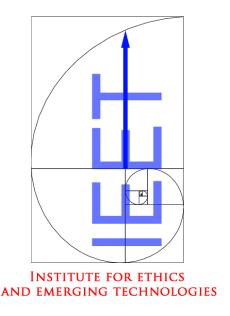
The Crossbow was invented to oppress peasants. But it became the perfect tool for knocking knights off horses.

For more information

World Transhumanist
 Association
 transhumanism.org



 Institute for Ethics and Emerging Technologies ieet.org



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