

- 6) Enormous Changes in World that has been supporting us. - What is going on to block our Perceptions (of Impending Disaster).
- 10 Dangers of a Magnitude that is hard to convey Response - will determine whether humans can survive long term
- 13 Kyoto cut tiny - cut of 60 to 80% of carbon emissions necessary to save climate. (stabilize)
- 15 Plants & animal physiology - Small changes can make the difference Ecosystem has evolved fine tolerance for temp. range - in the composition of air.
- 16 - Humans have reduced forest cover by 1/2 - Trees store much carbon. - one century - Transportation, Farming, Mining, manufacturing, communications switch to fossil fuels.
- 17 - wow - CO₂ spike -
- 19 - Great Powers
- 23 3rd Fight on 5% reductions - Coal & Oil must be phased out together
- 24 "World Scientists Warning to Humanity" came out 1992. Majority of Nobel Prize winners in sciences. - Wilson this is the worst problem.
- 25 - 27 - The Extinction spike. The Steepest and ultimately the most dangerous.
- 30 - The # not caring seems to be growing.
- 32 - losing the Biodiversity of our FOOD STOCK BASES.
- 33 1997. Nature - The Economic Value of Ecological Services - far exceeds value of entire human economy
- 34 1998 IUCN Red List of Threatened Plants
- 34 - Am. Museum of Natural Hist. Survey - Majority of scientists believe 1/5 of all species extinct in 30 yrs. FASTEST EVER.
- Consumption spike - clearest - Most difficult to measure?
- 35 Tree loss up to 1% (with plantations counting as forest cover)
- 36 Damaged Planet (within the life of youngsters) will not support human life.
- 37 - Effects of fossil fuels - (we won't run out of oil / run out of time)
- 37 - WHAT - level of consumption not a good measure of quality of life
- Possible to ↑ the quality of life and ↓
- 39 The Consumption spike
- 41 the Population spike - primary driver of the others
- 42 - Is still a problem / Is still 80 million more per year
- 43 - Planners / Economists Still talk of Growth as unmitigated Good
- indication of our lack of concern
- 45 - We have passed the Planets Human Carrying Capacity
- 61 "Objective" Reporting present both sides in there may not be a real spectrum of views
- 62 - There is a huge MARKET for DENIAL of effects of 4 megaspikes
- 65 Julian Simon - said not CO₂
- Coalition of Econ. interests that gives unpelting primacy to humans
- 69 Forest Cover Increase? Exposed

- 71 Wake with Another great 20th Century Spike Wars - become global, not regional, killed female - 110 million Shift from civilians
- "the possibility of an evolutionary leap"
- 74 - Greenland - expanded for 14000 yrs. Peak was 1981 - Declined 5% also Fertilizer, Irrigation
- 75 Great world Commerce - Tourism is fastest growing industry.
- Biosphere subject to unprecedented Bio Mixing - invasives
- 78 - Many Threats are more likely than organized Military
- Changed Armed Forces - to save the world / Invasion
- 82 - Fragmentation of Knowledge by specialty - Every year we know less of what there is to know.
- 84 The Dogmas of Economics Not the laws of nature - govern the globalism of today.
- 85 - Voices Raised - Pushed Aside by heavily financed marginalization
- 86 - the Shadow Economy - outside regulation - hiding information
- 87 - 1/3 of human economic activity.
- 88 - Most Memorable things marginalized, sequestered by specialists
- ONLY HOPE (Enthos) - to quickly refind a way to see the whole
- 95 USA 30 Billion in Public police 52 Bil. on private security
- 96 - The four spikes render our vulnerability to the unknown much greater
- 105 Egypt - The Nile often doesn't reach the sea
- 110 Phytoplankton - Primary photosynthesizers of the world. Base
- 112 5 lbs of fish grow up for 1 lb of Farmed fish or shrimp.
- It is FALSE ACCOUNTING that props up consumption boom in world
- 116 Possible Synergies (Nag) 1) Genetically Engineered Plants 2) Super pests - Immune. 3) Natural Control Insects collapse
- CLIMATE - 2 great quotes 1) "angry heart" - pecking with sticks
- 2) Impact - Drastic change / within human life time.
- Then Effects of synergies leap realms Physical/Biological/Economic/Social
- then Psychological Tsunami: Frustration, Resentment, Anger, Rage, Depression.
- 119 - suicides increasing Highest Pop. India China
- 57% of the World's Female suicides - in China
- 121 - big thesis that Drug War - use to power structure And great harm because of its diversion of our interest resources. From focus on real problems. 4 spikes
- 129 - Decline of Civilizations Indus, Mexican, Mayan, Easter Island collapses - Deforestation
- Sumerian, Mesopotamian, Mex. over irrigation / salt
- 36 - got to Easter Island - Killed some - only a few apocalyptic remnant - of people was left
- All - just tried to boost immediate output just like whole earth today

They will have to be universal - so they can't be undermined by "the shadow economy".

227) Quick list of Problems & Solutions

- Technology Changes Rapidly - institutions remain hidebound.
- ? Loss of National Sovereignty could hurt our ability to deal with the unraveling of Human Security.
- to 1) Intl. Orgs 2) Culturally distinct localities
- 3) Global Corporations. 4) Regional Trade Markets
- World's 500 biggest corps control 25% of world economic output - and employ 1/20th of 1% of the people.

S. N.G.O.s

232 Life can be without connection (Visible) to the physical or biological world that supports it.

234 Las Vegas etc makes the Delta of the Colorado in Mexico a Desert

243 - 1000 Tons of water to produce 1 ton of Grain

- Grain, Tradeable Commodity.

244 WATER - Again - Biggest use of water - Agriculture

244 - USA - Rich have been given a free pass by the poor. Myth of upward mobility must be maintained

246 - First time the Common interest of all on earth may be visible to most - Broad, transnational approach necessary to stabilize spikes.

240 200,000 sq. K. of land goes to desert each year - even more is deforested, losing carbon sink.

Water Crisis? ag. will lose water - land go bad

H.E.M.P. - Solution to all those problems

248 - Natural units of govt. Not Nation but Watershed District

+ local ecosystems efficient use

202 - must have both - reduced absolute consumption

⊗ MAT. Reduced Consumption will require shifts in both

1) Human perception of what satisfies

2) More efficiency in achieving that satisfaction

252 Armed Forces - Switch to mounting serious biological, climate, + population growth Defenses.

255 No. of time to plan your responses to the spikes they will get you. 3 levels ⊗ - 4th Level - The trans-

ition of civilization - role you choose to play

Common Needs of Humanity Inseparable from your own surviving and thriving.

256 - 2 million people per inch of sea level rise vulnerable

259 Bio Engineered Food - Toxic Chemicals That Reproduce

- Bt corn? - Nightmare - need ag. chemicals -

Genetically Modified - as dangerous as water or food

261 Contaminated Information - National Governments will be critical

262 Military - GOD'S LAST OFFER for enforcing

263 The Real Survivors will be those the regenerative codes

Communities

266 We Need 1) Love/Sense of Place 2) Sense of Trust 3) Ability to be

⊗ A healthy COMMUNITY - Sustainable Future

one that replicates the function of a healthy organism on a

large scale.

267/8 We are conditioned (MAT.) to equate our highest aspirations

with high consumption - Assume its human nature to

want more income and things

But - The Services things provide is what we really want

- Different ways that service can be provided / at fraction

of ecological cost - How?

1) Product substitution Ed Ayres 3) Reuse

2) material recycling 4) Borrowing / Sharing

FORESTS / Extinction - Billion People daily use wood industry

271 - Real Problem is vast distances / 125 + 50 yrs between home

job / shopping etc. Even Electric car is Bandaid

272 Political Consensus Not now on the horizon in most Countries

Must Pull Back city boundaries + revitalize the core - Not use car -

opens up more space.

276-277 - Argument for living in cities - Live surrounded by cultural

diversity, let natural diversity recover.

MAT - GREAT on TOO MANY POSSESSIONS 102 - house, fix, store, pads, etc

277 - USA Waste produced by livestock is 130 times that of humans

one Utah Farm will equal shift of L.A.

273 - Big CEO's recognize doom scenario

Germany - Taking advanced steps - Packaging - responsibility

FOUR WALLS EIGHT WINDOWS

587 MAT / Enthos - Only New York / London

(not just morality or rationality) will have less matter to

give up their "incentives" - Their aspiration to consume

hundreds or thousands of times their own share.

289 World has split in two in the ways that really count

The wealthy have abandoned the poor. MAT comes to

289 - Sustainability "Ecological Stability is an absolute requirement of a stable society."

292 - must connect with Geography, Where, How to live - to work
on EVOLUTION - a part of it is the institutional history of human life. Evolution clearly not a random process

293 - Moving Close to the Time - We will have to end an artificial life - on our span. (as 999 of powerhouse?)
Published in the United States by Separation from there
FOUR WALLS EIGHT WINDOWS

294 - ME Now at Decision Point - Action Point.
39 WEST 14TH STREET, ROOM 503
NEW YORK, NY 10011

294/295 Need conscious change (Enthel) - see ourselves as processes rather than objects - consumers. means
http://www.fourwallsightwindows.com
U.K. office
FOUR WALLS EIGHT WINDOWS / TORNAROUND

295 We have the brain & technology to survive, Question is will we use it in time. Eluded before Ark built.
UNIT 3, OLYMPIA TRADING ESTATE
COBURG ROAD, WOOD GREEN
LONDON N22 6TZ ENGLAND

296 - Reduced to miracles - only a miracle can move us down our EVOLUTIONARY PATH - not miracle means, including mechanical, electronic, photocopying, recording, or otherwise, without the prior written permission of the publisher.
Don't Fight about the past - Create (implement) the sustainable vision

299 - List of things we have to do
Ayres Ed.
Science (must) be paid for by public taxes and remain accessible to all humanity

Keep in touch with the source of info you know are trust worthy
Includes bibliographic references and index.
Don't live too much in fictional experience

1. Human ecology. 2. Environmental degradation.
3. Conservation of natural resources. 4. Sustainable development.

299 Oh
List of To Do's. Title. 1) Cautious w/ Technology
GF21.A93 1999 Look Beyond Technology for fulfillment.
33.72-dc21 yes / En me ch 99-17049

2) Complete materials & Energy accounting of all human activities
10 9 8 7 6 5 4 3 2 1

Printed in the United States
Interior design by Terry Bain
Then complete financial accounting
& global information tracking

Shift from liquidation to restoration
- reconsider "growth" - too rapid... leads to implosion

301 - Great Steven Jay Gould (Medial pos) on Evolutionary unity

290 maybe of all species that ever existed exist now
Program for Gore
Full phase out of Coal & oil - 20 yrs

1) Full phase out of Coal & oil - 20 yrs
2) Full world family planning
3) Redesign everything - moves having to live better on less destruction

4) Pull in city boundaries
5) overhaul tea system reinforce what you want
Radical? - More danger in doing nothing.

307 Great Experiment No Second Chance
- Not prepared (evol) to face this kind of threat
INTRODUCTION - A DIMINISHING CAPACITY FOR ASTONISHMENT

We could go extinct
offer - Defend our world instead of ourselves
individually - to Regain "Security"

1. THE FOUR SPIKES
2. THE OBSTRUCTIONS TO PERCEPTION
3. THE SHOCKS OF SYNERGY

4. AMBUSHES OF THE PAST AND WHAT THEY TELL US
5. DO YOU KNOW WHERE YOU GOT YOUR INFORMATION?

6. INFORMATION DENIED, DISREGARDED, OR DISAPPEARED
7. KEEPING UP WITH SHIFTING POWER

8. YOU
9. THE OFFER

NOTES
INDEX

309
343