

Thanks for joining. I appreciate the chance to co-create together. I'm a surfer and in over 50 years of learning from the Ocean, I read the water before going out and choosing which waves to ride. I have shared the information I am presenting with links so our organizers will be able to share my notes and links with you. My objective is to empower you with the resources that have inspired me to realize that we not only have the potential and evolutionary capacity to collectively manifest a regenerative future, this is why we are here, and it is never going to be easier than now - to pull this off.

The following quote from Joanna Macy, sums up our situation: <https://www.joannamacy.net/main>

COMING BACK TO LIFE - The Work That Reconnects by Joanna Macy acknowledges the grief, pain, and apathy that so many of us feel for taking part in a global economic system that is destroying our earth and essentially, life itself.

Grounded in Buddhism, Deep Ecology, Systems Theory, and psychosynthesis, this body of work reminds us that we can make a difference by first moving through our numbness and being willing to feel it all.

“As corporate-controlled government tightens its grip on the public mind, our trust is in our ability to discern and to choose. Despite all the very real as well as fabricated fears, despite the pace of destruction and the fog of distraction, it is still possible to turn back to the wellsprings of life.

We can find, in the love that grounds us in the living earth, clarity, courage, and self-respect to free ourselves from bondage to a sick and death-dealing economy.

Living within a society that denies the pain it causes engenders deep conflict within us, but the taboos against speaking of it, or even seeing it, are subtle, strong and complex.

I believe we can cut through denial and take a good hard look at the dysfunctional economic system that has captured humanity and is destroying our life support system.

This is not who we really are: self-centered, arrogant, greedy, contemptuous of other humans and lifeforms. No! We have been hijacked by an insane, alien culture of our own foolish making.

Let's reclaim our true humanity: loving, generous, caring, connected and joyful, heroic, persevering, willing to endure suffering as part of life, heart-centered, creative and wise.

It is crucial that we know this: we can meet our needs without destroying our life-support system. We have the scientific knowledge and the technical means to do that. We have the savvy and the resources to grow sufficient quantities of real, unadulterated food. We know how to protect clean air and water and how to generate clean energy. We can exercise our moral imagination to bring our lifestyles and consumption into harmony with the living systems of earth. All we need is the collective will.

When we are distracted and fearful and the odds are running against us, it is easy to let the heart and mind go numb. The dangers now facing us are so pervasive and yet often so hard to see - and so painful to see when we manage to look at them – that this numbing touches us all. No one is unaffected by it. No one is immune to doubt, denial or distraction in relation to the severity of our situation, nor to doubt about our power to change it.

Yet of all the dangers we face, from climate change to nuclear wars, none is so great as the deadening of our response. That knowing of mind and heart is already upon us - in the diversions we create for ourselves at it as individuals and nations, in the fights we pick, the aims we pursue, the stuff we buy.

So let us look at it. Let us see how it happens so we can awaken. The Work That Reconnects helps us open our eyes, our minds and hearts. Then, reconnected with our deepest desire, we will choose life.

When we know and revere the wholeness of life, we can stay alert and steady. We know there is no individual salvation. We join hands to find the ways the world self-heals.

Now, in our time, these three rivers - anguish for our world, scientific breakthroughs and ancestral teachings - flow together. From the confluence of these rivers we drink. We awaken to what we once knew: we are alive in a living Earth, the source of all we are and can achieve. Despite our conditioning by the industrial society of the last two centuries, we want to name, once again, this world as holy.”

- Joanna Macy

This is from Buckminster Fuller's last book, **GRUNCH OF GIANTS**, 1982 (pages 84 – 91):

https://archive.org/stream/GrunchOfGiants/R.BuckminsterFullerGrunchOfGiants2004_djvu.txt

Before humans could be designed to occupy it, planet Earth had to be designed. Before planet Earth could be designed, the solar system had to be designed. Before the solar system could be designed, galaxies had to be designed. Before special case galaxies could be designed, special-case macro-micro universe, all its atoms and molecules, gravity, and radiation had to be designed. Before *any* realizable designing was possible, it was cosmically necessary to discover and employ the full family of eternally coexistent and synergetically inter-augmentative, only by mathematical equations expressible, intercovarying, generalized principles governing the generalized design of eternally regenerative scenario Universe. And before all recognition of the eternal generalized principles and their inherent design science functions, it was further necessary to have:

1. The design of an eternally regenerative, radiationalley expansive and gravitationally contractive, everywhere and everywhen complexedly intertransforming, non-simultaneously episoded, scenario Universe.
2. The generalized design of galaxies of entropic matter-into-energy as radiation-exporting stars and generalized star systems of planets serving syntropically, as radiation-into-matter importing planets.
3. The design of planet earth as the Sun-orbiting, biosphere protected, and oxygen-atmosphere-equipped incubator of DNA-RNA design-controlled biological life and of that life's photosynthetic conversion of entropic radiation into syntropic, orderly hydrocarbon molecules and a vast variety of hydraulically compressioned, crystallinely tensioned, exquisitely structured biological species omni-inter-regenerating as an ecological omni-life and human-thinking support system.
4. The eternal mathematics - numbering and structuring. The eternally extensive mathematical spectrums of frequencies, wavelengths, and harmonic intervals.

Only thereafter could those human beings progressively re-evolutionize, exclusively by trial-and-error enlightenment, from their born-naked state of absolute ignorance, to discover their scientific-principle-apprehending minds and thereby (now for the first possible moment in history) to glimpse humanity's semi-divine functioning-potential as local-Universe critical-information gatherers and local Universe problem-solvers in support of the integrity of eternally regenerative Universe.

Only now for the first time can we human beings effectively revolutionize society in an adequate degree to fulfill what I have identified in *Critical Path* as being the number one objective of humanity's inclusion in comprehensive evolution.

The generalized principles have always-eternally-existed and have always been available for each special case revolutionary design-realization. The special case-design revolution has always had to precede the extra-special-case local social revolution, whether it be by inventing guns which overwhelm archery or inventing the wireless telegraph which transmits messages halfway around the world at 6 million miles per hour making utterly obsolete the Pony Express and its concomitant “Wild West” socioeconomic behavior patterning. The greatest evolution producing revolutions are complex and take the longest to be realized.

The social revolution potential now can for the first time in history realize economic success for all and a comprehensive world enjoyment that involves not revengefully toppling the economically successful minority but elevating all humanity to a sustainable higher level of existing and interacting than any humans have heretofore either experienced or dreamed of.

Never before in all history have the inequities and the momentums of unthinking money-power been more glaringly evident to so vastly large a number of now literate, competent, and constructively thinking all-around-the-world humans.

There's a soon-to-occur critical-mass moment when the intuition of the responsibly inspired majority of humanity in contradistinction to the angered Luddites and avenging Robin Hoods, faced with comprehensive functional discontinuity of nationally contained techno-economic system, will call for and accomplish a world around reorientation of our planetary affairs.

At this critical moment will occur a realization by the responsibly inspired majority that the adequate capacity of the invisible technology to sustainingly support all humanity depends on all the resources, physical and metaphysical, being always and only employed for all of world-around humanity as a completely integrated techno-economic system operating entirely on its daily income principally of Sun-emanating energy.

The integrated world techno economic system purpose is in contradistinction to a union of 150 autonomously operating nation-states as with the United Nations.

All this can now be comprehensively commonwealth-accounted in time energy work units.

All this can provide regenerative-initiative accommodating access of human individuals to the ever multiplying commonwealth-techno-economic facilities. The degree of individual-initiative computerized access to the commonwealth facilities will be predicated on the demonstrated performance and sustained integrity of the individual's ever-forwardly-anticipatory designing competence.

I have been a deliberate half-century-fused insider of a coolheaded, natural, gestation-rate-paced revolution, armed with physically demonstrable livingry levers with which altogether to elevate all humanity to realization of an inherently sustainable, satisfactory-to-all, ever higher standard of living.

Critical threshold crossing of the inevitable revolution is already underway. The question is: can it be successfully accomplished before the only-instinctively-operating fear and ignorance preclude success, by one individual authorized or unauthorized, pushing the first button of a chain-reacting all-buttons-pushing, atomic, race-irradiated suicide?

The only happily promising recourse of each human individual is to our highest intellectual facilities and their mutual, ego deflated, unselfishly loving preoccupation with comprehensivity and our employment of the most powerful tools of all:

(A) the family of generalized scientific principles governing the operational design of eternally regenerative universe itself;

(B) comprehending and effectively employing *Synergetics* with the books *Synergetics* and *Synergetics 2* presenting the comprehensive omni-image-able mathematical coordinate system employed by nature, thus avoiding the mentally debilitating, vast-majority-of-humanity excluding quasi mathematical coordinate system employed by present-day science;

(C) comprehending the major objectives and operating strategies of the major opposing power structures of world politics, their present status quo and probable future trending;

(D) comprehending the fundamentals of economics, of wealth vs. money, of the principle features and functioning of industry, banking, and securities;

(E) comprehending the educational system in general as well as the discovery of the shortcomings of science, engineering and education in general;

(F) synergetically comprehending “what it is all about,” as propounded in *Critical Path* and this book, *Grunch of Giants*, and discovering what our options are to confront imminent race disaster; and

(G) the individual discovery of God by a vast majority of human individuals - not the discovery of religions, but the discovery that each and every individual has an always instantly-open, no-intermediary-switchboard-authority-to-contend-with, no-interference-of-any-kind, direct “hotline to God”; i.e., the weightless, nonphysical communication occurring teleologically between the differentially limited, weightless, nonphysical, temporal, special-case mind of the individual human and the comprehensively integrated macro-micro unlimited, weightless, eternal, generalized mind of God.

“Nature is a totally efficient, self-regenerating system. If we discover the laws that govern this system and live synergistically within them, sustainability will follow, and humankind will be a success.”

– **Buckminster Fuller**

Let’s look at how we act / treat each other for insights on how we got here:

Justice is the first virtue of social institutions, as truth is of systems of thought. A theory however elegant and economical must be rejected or revised if it is untrue; likewise laws and institutions no matter how efficient and well-arranged must be reformed or abolished if they are unjust. Each person possesses an inviolability founded on justice that even the welfare of society as a whole cannot override. For this reason justice denies that the loss of freedom for some is made right by a greater good shared by others. It does not allow that the sacrifices imposed on a few are outweighed by the larger sum of advantages enjoyed by many. Therefore in a just society the liberties of equal citizenship are taken as settled; the rights secured by justice are not subject to political bargaining or to the calculus of social interests. The only thing that permits us to acquiesce in an erroneous theory is the lack of a better one; analogously, an injustice is tolerable only when it is necessary to avoid an even greater injustice. Being first virtues of human activities, truth and justice are uncompromising.

From "A THEORY OF JUSTICE" BY JOHN RAWLS
https://en.wikipedia.org/wiki/A_Theory_of_Justice

EXTERMINATE ALL THE BRUTES – Raul Peck - Statement of Intent:
<https://www.youtube.com/watch?v=dQ4r3Qdrqmo>

FLOW - Mihaly Csikszentmihalyi

“If you follow these three steps, namely you are always setting goals, you are always paying attention and you become immersed in whatever you do, the outcome is that you learn to enjoy whatever you are doing and that produces a sense of high energy, liveliness and flow. The great gift of flow is that if you have learned to achieve this state you will have outcomes that match the best that we can dream of having in this life. First of all, you will enjoy every minute of your life. Second you will achieve personal growth, your skills will expand, your goals will become more and more important to you and to others. And the third outcome is, that it is through flow experiences that culture evolves: it is through flow that we can build new forms of art, new technologies, new science, new and better relationships among people, so the evolution of personal abilities, the development of personal skills, is the energy out of which the evolution of culture is made. If there is one legacy we can leave to the future, knowing that we have contributed something positive to it, it is to live our lives as a constant source of flow.”

Mihaly Csikszentmihalyi

(Me-high Cheek-sent-me-high)

Flow is not only a human trait – all life is in evolutionary flow. Flow is the easiest way to move through existence – life does it naturally, intuitively, and for this step in our evolution, we are going to have to trust our senses to reconnect to nature and ourselves by letting go. Once you define the objective of life as being to support Flow, the design of the infrastructure of living becomes more obvious.

The consciousness expanding toolset available to us at this critical time:

James Webb Space Telescope – NASA: <https://www.jwst.nasa.gov/>

Planet provides daily satellite data that helps businesses governments researchers and journalists understand the physical world and take action: <https://www.planet.com/>

Tom Chi - Everything Is Connected – Here’s How: <https://www.youtube.com/watch?v=rPh3c8Sa37M>

Biomimicry Overview: [Vox + 99% Invisible story](#)

[Biomimicry.org](#) -- [list of solutions](#) in various stages (concepts created by students that show the power of understanding biology + companies with early-stage investment).

Videos: <https://biomimicry.org/videos/>

Examples: [Impossible Materials](#) (replacing titanium dioxide), [Biohm](#) (plastic-eating mycelium to make bricks/insulation), and [ECONcrete](#) (rebuilding marine-rich environments that get stronger over time along developed shorelines).

[AskNature.org](#) has [educator resources](#) organized by grade level, and collections organized by theme (like [high performance materials](#)), strategy pages ([how fish scales reduce drag](#)), and more [innovations](#).

Dan Mapes – The Spatial Web – VERSES.IO:

Verses Spatial Web Introduction

<https://vimeo.com/433522124>

<https://spatialwebfoundation.org/>

www.verses.io

Spatial Web Article

<https://medium.com/swlh/an-introduction-to-the-spatial-web-bb8127f9ac45>

DELOITTE ARTICLE

<https://www2.deloitte.com/us/en/insights/topics/digital-transformation/web-3-0-technologies-in-business.html>

Spatial Web Potentials - Europe Speech

<https://www.youtube.com/watch?v=q-psstPGETc>

Interview - Future Advisory Board

<https://www.youtube.com/watch?v=yz5egArq3ww>

SPATIAL WEB FEATURES

<https://vimeo.com/manage/videos/659476149>

How AR and the Spatial Web could save humanity

<https://medium.muz.li/how-magic-leaps-augmented-reality-glasses-could-play-a-critical-role-in-saving-the-planet-8fab8fda16f7>

Society 5.0

https://sg.nec.com/en_SG/campaign/society5.0/index.html

Global Standards Organizations Collaborate On Interoperability Standards for the Spatial Web
https://www.prweb.com/releases/global_standards_organizations_collaborate_on_governance_and_interoperability_standards_for_the_spatial_web/prweb18122160.htm

VR and Climate

<https://phys.org/news/2021-08-virtual-reality-planet.html>

OpenClimate: Dynamic Adaptable Schemas

<https://www.youtube.com/watch?v=cwcBfjIY1ZU&t=3915s>

Open Climate Demo: Nested Climate Accounting and Next-Gen Carbon Markets

<https://www.youtube.com/watch?v=Luagannp8Jl&t=130s>

Population Media Center – *Overdevelopment, Overpopulation, Overshoot:*

<https://www.populationmedia.org/2015/06/25/overdevelopment-overpopulation-overshoot-circles-the-globe/>

Gapminder / Hans Rosling – Gapminder is an independent educational non-profit fighting global misconceptions:

<https://www.gapminder.org/>

Education Reimagined: <https://education-reimagined.org/ecosystem-approach/> , <https://education-reimagined.org/wp-content/uploads/2021/01/A-Transformational-Vision-for-Education-in-the-US.pdf> ,
<https://www.youtube.com/watch?v=KocMAufXV0>

Sound Healing Center / David Gibson: <https://soundhealingcenter.com/>

Hydration Foundation – learn about us and water: <https://hydrationfoundation.org/>

Breatheology – Founder Stig Severinsen can hold his breath for over 20 minutes: <https://www.breatheology.com/>

James Nestor – Author / *BREATH:* <https://www.mrjamesnestor.com/>

Vivo Barefoot – Our connection to the Earth is through our Feet: <https://www.vivobarefoot.com/us/>

SHOESPIRACY - Movie – (Extended Cut): https://www.youtube.com/watch?v=x_rDFa6kZfl

Paul Stamets / Fungi – Into the MycoVerse – Our connection to nature / soil / plants / fungi - San Francisco, 2018:
<https://www.youtube.com/watch?v=f0rkcrWqsV4>

Eliot Coleman – Real Farming / Real Food and Nantucket Garden Festival Keynote:

<https://www.fourseasonfarm.com/> , https://www.youtube.com/watch?v=nRgk4aAbW_Y

David Blume – Full Circle Regenerative Food / Energy / Alcohol / Waste: <https://www.blumedistillation.com/>

Gunter Pauli – Media: <https://www.gunterpauli.com/media.html>

Climate Foundation – Solutions for the Planet - Brian von Herzen: <https://www.climatefoundation.org/>

Dr. Craig Venter - “Oceans, Human Health and the Genomic Future”:

<https://www.youtube.com/watch?v=YZZY8Jppmg4>

Gump Research Station - IDEA Consortium: <https://moorea.berkeley.edu/idea>

Walter Munk Foundation for the Oceans: <https://waltermunkfoundation.org/>

Project Kaisei – Google Earth Hero: <https://www.youtube.com/watch?v=kf9W3VDf9Bk>

International Dialogue for Underwater Munitions: <https://underwatermunitions.org/>

Diana Beresford Kroeger – Global Forest Revival: <https://dianaberesford-kroeger.com/>

Geothermic Solution – Using the Earth as a battery to harvest heat energy cleanly and safely 24/7/365:
<https://geothermicsolution.com/>

Chad Frischmann Global (Project Drawdown): <https://www.chadfrischmann.com/> ,
https://link.springer.com/referenceworkentry/10.1007/978-3-319-71067-9_100-1

- **WATER FOR THE RECOVERY OF THE CLIMATE – A NEW WATER PARADIGM:**
[http://www.waterparadigm.org/download/Water for the Recovery of the Climate A New Water Paradigm.pdf](http://www.waterparadigm.org/download/Water%20for%20the%20Recovery%20of%20the%20Climate%20A%20New%20Water%20Paradigm.pdf)
- **GREEN RESTORATION PROGRAM FOR THE KOSICE REGION OF SLOVAKIA - LANDSCAPE AND WATERSHED RECOVERY 2021-2030:** <https://www.waterholistic.com/wp-content/uploads/2021/05/KSK-EN.pdf>

Steven Kotler - *The Art of the Impossible*: <https://www.theartofimpossible.com/>

Steven Kotler - Flow Video: https://www.youtube.com/watch?v=XG_hNZ5T4nY

Evolutionary Sports Collective: <https://www.evosportscollective.com/>

Exponent – 50+ year multi-disciplinary engineering and scientific consulting firm bringing together 90+ different disciplines analyze failures and discover solutions:
<https://www.exponent.com/>

Partnerships for Change: <https://www.partnershipsforchange.org/>

LAUDATO SI Action Platform: <https://laudatosiactionplatform.org/>

Buckminster Fuller Institute: <https://www.bfi.org/>

Foresight Institute: <https://foresight.org/>

Goldman Environmental Prize: <https://www.goldmanprize.org/>

Indigenous View of Donut Economics: <https://doughnuteconomics.org/stories/24>

Visions of the Philanthropy of the Future: <https://www.flowfunding.org/future/visions.html>

Kinship Earth – Manifesting A Thriving Planet, Collaboratively: <https://kinshipearth.org/>

Finca Sagrada – Sacred Land Farm – Vilcabamba, Ecuador: <https://finca-sagrada.com/>

Planet Positive Ventures: <https://planetpositive.ventures/>

Planet Home – Eat Better, Make Better, Move Better, Live Better: <https://planethome.eco/>

Tom Chi – Helping Humanity Become Net Positive To Nature Video:
<https://vimeo.com/294975140>