



Local adaptation of universal values and principles from *The Earth Charter* ...

...to sustain human health and well-being for both present and future generations

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Framework for this presentation

- The human enterprise needs to shift from its current unsustainable trajectory to a path of sustainability; how epidemiology can help in such movement
- The relevance of values and ethical principles
- *The Earth Charter (2000)*
- Examples from books, and of governance in Mexico and Brazil, and from universities in Spain, Greece, and the USA: all demonstrate its utility, certainly as an educational instrument



Can *epidemiology* remain relevant in the face of *global ecological change*?

“We seem to have been living for a long time on the assumption that we can safely deal with the parts, leaving the whole to take care of itself. But now the news from everywhere is that we have to begin gathering up the scattered pieces, figuring out where they belong, and putting them back together. For the parts can be reconciled to each other only within the pattern of the whole to which they belong.”

- Wendell Berry (b. 1934)



Reductionist vs. Systems Approaches

- **Reductionism:** Pursuit of single causes along linear paths to explain a phenomenon

- or -

- **Systems Approaches/Wholism:** Integrative, multi-, inter- and transdisciplinary approaches to explain a phenomenon; embraces complexity



Transdisciplinarity

- ***Transdisciplinary approaches to Human Health are approaches that integrate the natural, social and health sciences in a humanities context, and in so doing transcend each of their traditional boundaries. Emergent concepts and methods are the hallmark of the transdisciplinary effort***



Anthropocentrism vs. Eco/Biocentrism

- **To reconnect humans to their complete dependence on the ecosystems in which they live, new approaches are needed to move us from our silo-based and compartmentalized approaches to transdisciplinarity**



- **Why should epidemiologists, all professions and, indeed, all people be concerned with matters of a global nature?**
 - Prevent harms *on a massive scale*
 - *The Right to Life for both present and future generations*



Core Values & Mission Statements

- Provide the anchor for our activity and collective motivation
- From the profession's sub-specialty of *Environmental Epidemiology Ethics Guidelines (2012)*: ...
maintain, enhance, and promote health in communities worldwide ...
work to protect the public health interest above any other interest ...



Principle-Based Ethics

- **Respect for autonomy**

respecting the right of participants to self-determine the extent of their participation

- **Beneficence**

doing good through our research

- **Non-maleficence**

doing no harm

- **Social/Distributive Justice/ Fairness**

who derives benefits and who takes risks?



The FUNDAMENTAL PRINCIPLES of BIOETHICS include (under Justice):

- **ENVIRONMENTAL JUSTICE PRINCIPLE**
 - *Who is taking the risks?*
 - *Who is deriving the benefits?*
- **POLLUTER PAYS PRINCIPLE**
 - *incentive to internalize costs*
- **PRECAUTIONARY PRINCIPLE**
 - *act to prevent even if evidence is limited*
- **SEVENTH GENERATION PRINCIPLE**
 - *consider consequences seven generations hence*



First order Principles in Public Health

- **Protect the most vulnerable in society** (e.g., unborn, children, Inuit, frail elderly)
- **Involve communities in our research** (ensure community relevance of our work)
- **Integrity in Public Health**
 - **Serve the public health interest above any other interest**



Maurice Strong ...

**United Nations Conference on
Environment and Development (UNCED),
1992, Rio de Janeiro, Brazil**

- **Mikhail Gorbachev**
 - **Steven Rockefeller**
-

A GRASSROOTS GLOBAL INITIATIVE



The Earth Charter

A four-page **soft law** instrument ... to save us from ourselves

PREAMBLE (Values followed by four principles)

- *Respect and care for the community of life*
- *Ecological integrity*
- *Social and economic justice*
- *Democracy, non-violence, and peace*

THE WAY FORWARD (Commitment to EC values)

<http://www.earthcharter.org/>

http://earthcharter.org/invent/images/uploads/echarter_english.pdf

Accessible in 53 different languages at

<http://earthcharter.org/discover/download-the-charter/>



I. Respect and care for the community of life

- 1. Respect Earth and life in all its diversity.**
- Care for the community of life with understanding, compassion, and love.
- Build democratic societies that are just, participatory, sustainable, and peaceful.
- 4. Secure Earth's bounty and beauty for present and future generations.**



II. Ecological Integrity

- 5. Protect and restore the integrity of Earth's ecological systems, with special concern for biological diversity and the natural processes that sustain life.**
- 6. Prevent harm as the best method of environmental protection and, when knowledge is limited, apply a precautionary approach.**
7. Adopt patterns of production, consumption, and reproduction that safeguard Earth's regenerative capacities, human rights, and community well-being.
8. Advance the study of ecological sustainability and promote the open exchange and wide application of the knowledge acquired.



III. Social and Economic Justice

- 9. Eradicate poverty as an ethical, social, and environmental imperative.**
- 10. Ensure that economic activities and institutions at all levels promote human development in an equitable and sustainable manner.**
11. Affirm gender equality and equity as prerequisites to sustainable development and ensure universal access to education, health care, and economic opportunity.
12. Uphold the right of all, without discrimination, to a natural and social environment supportive of human dignity, bodily health, and spiritual well-being, with special attention to the rights of indigenous peoples and minorities.



IV. Democracy, Non-Violence and Peace

- 13. Strengthen democratic institutions at all levels, and provide transparency and accountability in governance, inclusive participation in decision making, and access to justice.**
- 14. Integrate into formal education and life-long learning the knowledge, values, and skills needed for a sustainable way of life.**
15. Treat all living beings with respect and consideration.
16. Promote a culture of tolerance, nonviolence, and peace.



The Earth Charter

- **Encourages interdisciplinary and transdisciplinary approaches for addressing complex social policy questions that also integrate health**



The Earth Charter and Environmental Epidemiology

- **Prevention in focus –**

**for the support of *all* life and its
inter-dependence**



RIGHTS vs. DUTIES

- **The Universal Declaration of Human Rights (1948)**

And, since 2000:

- ***The Earth Charter* (a declaration of human responsibilities)**



Rights-Based Arguments in Support of the EC

- ***The Earth Charter (EC)*** is the only document that:
 - ***Supports Ecological Integrity rights***
 - ***Has Biocentrism at its core***
 - ***Integrates the dependence of human health on Ecological Integrity, and hence “the right to life” for present and future generations***
 - ***Extends a right to precaution in policy-making (benefits to whom? risks to whom?)***
 - ***Explicitly defends future generations***



The Earth Charter

- **Enabling of MDGs attainment; and now SDGs** <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>
- **Linkages among health, poverty, and conservation**
- **Inter-dependencies are recognized**

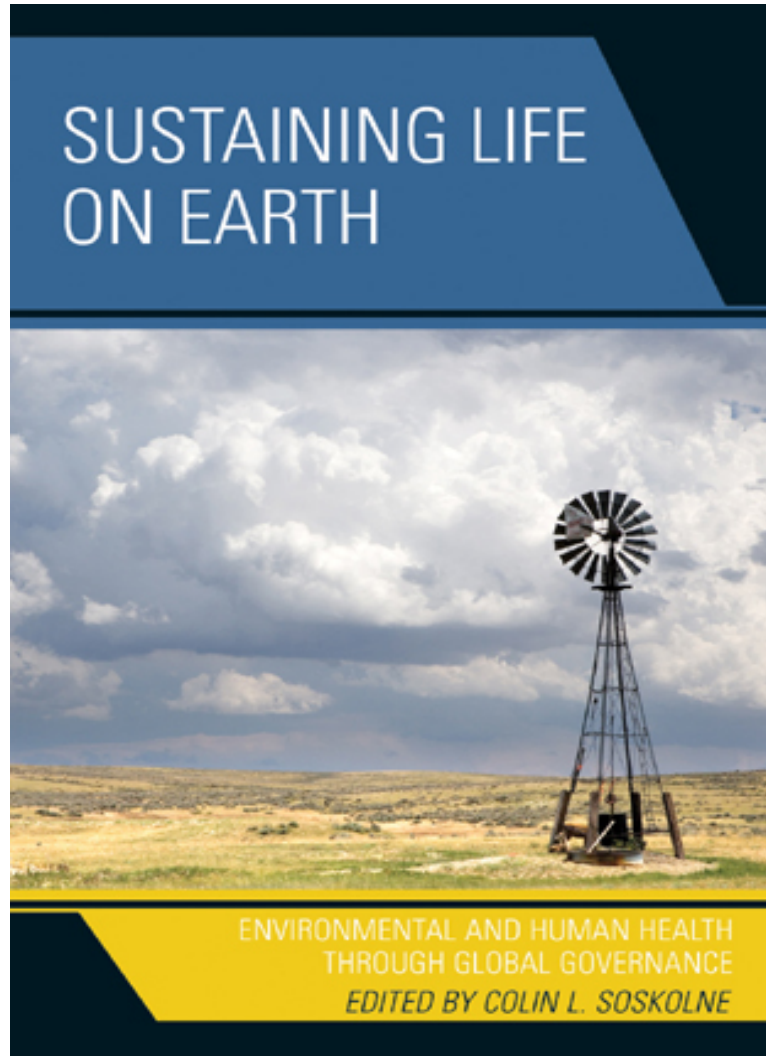


A 2008 book anchored in
The Earth Charter

Sustaining Life on Earth:
Environmental and Human Health
through Global Governance

- www.LexingtonBooks.com/ISBN/0739117297

Rowman & Littlefield (2008)





Florida Gulf Coast University, United States



- **Infusing *The Earth Charter* into Research and Curriculum: One American University's Example**
- ***Peter Blaze Corcoran, and A. James Wohlpart***
- <http://earthcharter.org/virtual-library2/images/uploads/20-FloridaGulf,%20UnitedStates.pdf>

The Use of *The Earth Charter* at the Primary Teachers Education Department



**UNIVERSITY
OF CRETE**

- **The Heart of the Matter:
Infusing Sustainability Values
in Education: Experiences of
ESD with *The Earth Charter*
(2014)**
- ***Nelly Kostoulas-Makrakis***
- <http://earthcharter.org/virtual-library2/images/uploads/Ech91-95.pdf>

Beyond Cognitive Learning: Facilitating a Reconnection between the Community and Nature



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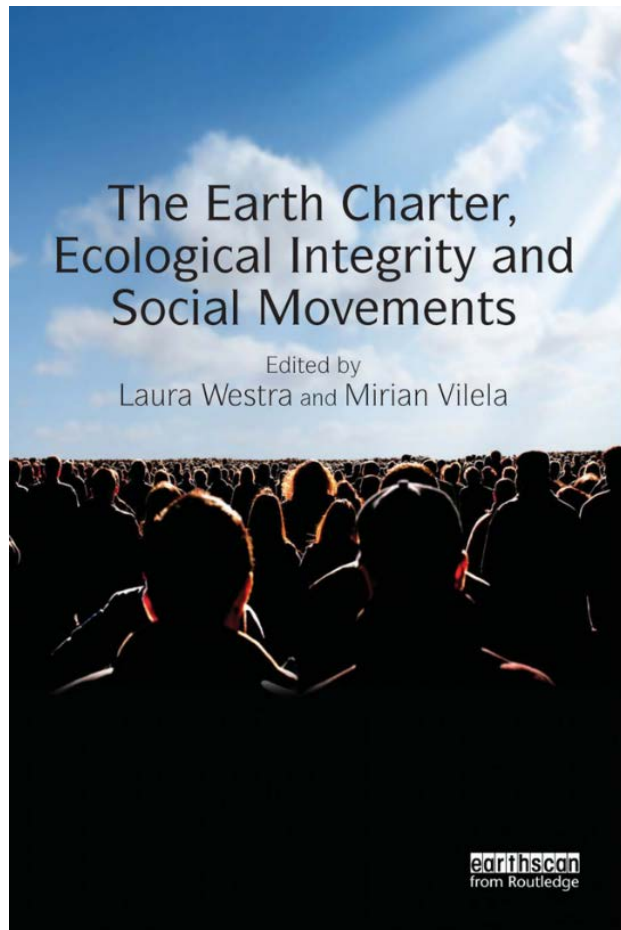
- **The Heart of the Matter: Infusing Sustainability Values in Education: Experiences of ESD with *The Earth Charter* (2014)**
- **Celebrating the UN Decade of Education for Sustainable Development**
- ***Alfonso Fernández Herrería***
- <http://earthcharter.org/virtual-library2/images/uploads/ECh79-82.pdf>

Cultivating Good Water and *The Earth Charter*. The experience of Itaipu Binacional in Brazil



- **The Heart of the Matter:
Infusing Sustainability Values
in Education: Experiences of
ESD with *The Earth Charter*
(2014)**
- **Celebrating the UN Decade of
Education for Sustainable
Development**
- ***Nelton Friedrich***
- <http://earthcharter.org/virtual-library2/images/uploads/ECh20-24.pdf>

The Earth Charter as an environmental policy instrument in Mexico



- **A soft law or hard policy perspective (2014)**
- *Franciso Javier Camarena Juarez*
- *In: **The Earth Charter**, Ecological Integrity and Social Movements (2014)*



Universal Responsibility (1 of 2)

The Earth Charter articulates the **Principle of Universal Responsibility**:

*To realize these aspirations, we must decide to live with a sense of **universal responsibility**, identifying ourselves with the whole Earth community as well as our local communities. We are at once citizens of different nations and of one world in which the **local** and **global** are linked.*



Universal Responsibility (2 of 2)

Everyone shares responsibility for the present and future well-being of the human family and the larger living world.

The spirit of human solidarity and kinship with all life is strengthened when we live with reverence for the mystery of being, gratitude for the gift of life, and humility regarding the human place in nature ...



CONCLUSIONS

- If humanity is to achieve a change in trajectory, reflections on implementing *The Earth Charter* could shed light on more effective strategies for expanding success
- The role of *Environmental Epidemiology* in evaluating the potential of the **EC** to limit impacts from upstream determinants of health warrants urgent consideration



Discussion

This presentation will be posted to

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