

**ENVIRONMENTAL FORUM OF MARIN'S "TOWARD A SUSTAINABLE MARIN"
2007 WORKSHOP SERIES**

Members, and their guests, are welcome to attend classes, as visitors, but conditions apply.
Permission from the Director is mandatory prior to attendance.
Please inquire three days minimum prior to class date: Workshop@MarinEFM.org – thank you!

FOSSIL FUELS & CLIMATE CHANGE

Session #2: Saturday, February 10, 2007, 9 a.m. - 2:00 p.m.

Coordinators: Liz Danel (33), Zem Joaquin (33)

Location: Dominican University, Caleruega Hall/The Creekside Room, Magnolia Avenue, San Rafael
Directions to Dominican: <http://www.dominican.edu/about/campus/directionstocampus.html>
Campus Map: (<http://www.dominican.edu/about/campus/campus-tour/campusmap.pdf>)

CLASS OBJECTIVES:

1. Learn about fossil fuel sources and supply levels.
2. Learn how and where fossil fuels are used--homes, businesses, U.S. government/military, public transportation, manufacturing—and their respective contributions of GHG emissions.
3. Learn how fossil fuel use affects our environment (climate change, pollution, human health, economy, land use, water resources, food supply and biological diversity.)
4. Discuss what individuals are doing, and could do, to limit their GHG emissions (e.g., home products, green building, public transportation.)
5. Learn about international and U.S. energy agreements and initiatives of governments, utilities, businesses, regional collaboratives and NGOs that are aimed at cutting greenhouse gas emissions (e.g., Cities for Climate Protection.)

SPEAKERS:

Richard Heinberg	Author, <i>The Party's Over</i> (and other numerous books and writings)
Jason Salfi	Founder, Comet Skateboards; Entrepreneur and Environmentalist
Cameron Sinclair	Executive Director and Co-Founder, Architecture for Humanity
David Shearer	Chief Scientist, California Environmental Associates

SCHEDULE:

8:45	Meet and Greet
9:00 - 10:15	Fossil Fuels and Climate Change: Our dependency on fossil fuels, immediacy of a peak, inevitability of a depletion, role in geopolitics; fossil fuel's role in GHG emissions (Richard Heinberg)
10:15 – 11:05	Green Building: a systems approach to designing & planning; embodied energy explained (Cameron Sinclair)
11:05 – 11:15	Break (10 minutes)
11:15 - 12:00	Cradle to cradle concepts; our energy requirements & what we can do as individuals (Jason Salfi)
12:00 - 12:40	Lunch Break
12:40 - 1:40	How global warming is affecting our environment; why it occurs and possible solutions (i.e., carbon sequestration, trading, tax) (David Shearer)
1:40 - 2:00	Green Product Demo

READING and RESOURCES:

How to Clean Coal; National Resources Defense Council's On Earth magazine:
<http://www.nrdc.org/onearth/05fal/coal1.asp>

Calculate your carbon footprint at <http://www.safeclimate.net/calculator/>
<http://www.Skymetrics.us>, go to: "Big Picture", read: "Climate Change 101", "Glossary of Terms",
"Important Greenhouse Gases"

US Mayors' Climate Protection Agreement: <http://www.ci.seattle.wa.us/mayor/climate/default.htm>

Global Warming. Undo it. 20 simple steps Environmental Defense
http://www.undoit.org/undoit_steps1.cfm

Climate Change:

United Nations Framework Convention on Climate Change
(on Kyoto Protocol, Montreal Conference 2005 etc., website with a multitude of links)
<http://www.unfccc.int/>

Brown, Lester Russell: Outgrowing the Earth: The Food Security Challenge in the Age of Falling Water
Tables and Rising Temperatures, Earth Policy Institute, New York, W.W. Norton & Co., 2004

<http://www.heatisonline.org>

Stormy Weather. 101 Solutions to Global Climate Change
Guy Dauncey with Patrick Mazza, New Society Publisher, 2001

Cities for Climate Protection Campaign: <http://www.ICLEI.org/us/ccp>
<http://www.Skymetrics.us>

Green Building/Resource Efficient Building:

<http://www.architecture2030.org>

U.S. Green Building Council, LEED (Green Building Rating System): <http://www.USGB.org>
Green Resource Center: <http://www.GreenResourceCenter.org>
<http://www.iGreenBuild.org>

Whole Building Design Guide: <http://www.WBDG.org>

Susan Roaf, David Crichton and Fergus Nichol: Adapting Buildings and Cities for Climate Change:
A 21st Century Survival Guide. Amsterdam, Boston, London, 2005

<http://www.climateprotectioncampaign.org> - January 2006

Climate Protection Resources:

Intergovernmental Panel on Climate Change: Most authoritative source of climate change science:
<http://www.ipcc.ch>

RealClimate: Provides commentary on climate science by working climate scientists for the public and
journalists. Especially useful for separating scientific fact from fiction. <http://www.realclimate.org>

"The Climate of Man" Three-part series on climate change published in the New Yorker, 2005:
<http://www.fccsanrafael.org/Resources/Climate%20of%20Mana.pdf> Interview with the author,
Elizabeth Kolbert: http://www.newyorker.com/online/content/articles/050425on_onlineonly01

Safe Climate for Business: Tools for businesses, institutions, and organizations:
<http://www.safeclimate.net/business>

Climate Leaders: Tools to develop comprehensive climate protection strategies:
<http://www.epa.gov/climateleaders/>

Interfaith Power and Light: Resources for faith-based institutions: <http://www.interfaithpower.org>

Climate Protection Campaign: Campaign updates, reports, and other climate protection resources
<http://www.climateprotectioncampaign.org> “Local Actions to Address Climate Change” posted on the site provides an overview of local solutions. The Campaign’s blog, <http://www.climateprotectionblog.com>, supports an online community aimed at developing local solutions.

“Report on the Sonoma County Ecological Footprint Project,” May 2002. Report shows that much of human impact on earth is related to fossil fuel usage:
<http://www.sustainablesonoma.org/projects/footprintreport/scfpweb.pdf>

California’s climate choices: Union of Concerned Scientists: <http://www.climatechoices.org>

California Climate Registry: State institution for businesses to register their greenhouse gas emission reductions: <http://www.climateregistry.org>

California Energy Commission: Climate Change and California: www.climatechange.ca.gov

U.S. Environmental Protection Agency Global warming resources:
<http://yosemite.epa.gov/oar/globalwarming.nsf/content/index.html>

Pew Center on Global Climate Change: www.pewclimate.org

United Nations Environmental Programme, Grid-Arendal: Excellent source for information and graphics, including a “CO₂ meter” showing the current estimated annual rate of global anthropogenic emissions of carbon dioxide, based on projections made by the International Energy Agency:
<http://www.grida.no/>

Calculator to determine individual greenhouse gas emissions: <http://www.americanforests.org>

“Talking Global Warming” Research and recommendations about effective climate communications
<http://www.skymetrics.us/talking-global-warming/talkingglobalwarming.php>

SPEAKERS’ BIOGRAPHIES:

Richard Heinberg is the author of seven books including *The Party’s Over: Oil, War and the Fate of Industrial Societies* (New Society, 2003, 2005), *Powerdown: Options and Actions for a Post-Carbon World* (New Society, 2004), and *The Oil Depletion Protocol* (New Society, 2006). He is a journalist, educator, editor, lecturer, and a Core Faculty member of New College of California, where he teaches a program on “Culture, Ecology and Sustainable Community,” and is widely regarded as one of the world’s foremost Peak Oil educators. His monthly *MuseLetter* was nominated in 1994 for an Alternative Press Award and has been included in *Utne Magazine*’s annual list of Best Alternative Newsletters. His essays and articles have appeared in many journals including *The Ecologist*, *The American Prospect*, *Z Magazine*, *Resurgence*, *The Futurist*, *European Business Review*, *Earth Island Journal*, *Yes!*, *Wild Matters*, *The Proceedings of the Canadian Association of the Club of Rome*, *Alternative Press Review*, and *The Sun*; and on web sites including *Altnet.org*, *EnergyBulletin.net*, *ProjectCensored.com*, and *Counterpunch.com*. He is a Research Fellow of the Post Carbon Institute and a member of the Association for the Study of Peak Oil.

David Shearer currently serves as Chief Scientist at California Environmental Associates. Dr. Shearer works in the next generation transportation, energy and information technologies space. He has focused recently on creating policy instruments that catalyze the development of emerging technology markets and climate change interventions. Earlier, Dr. Shearer developed and deployed exposure assessment technologies/methodologies for outdoor/indoor air pollutants. He has worked with a range of private and public sector groups to manage environmental risk, quantify the life cycle impacts of human activities, develop market-based environmental strategies, and engage stakeholder groups in constructive dialogue. His primary collaborator over the last decade has been Toyota.

Jason Salfi founded Comet Skateboards in 1998 on the premise that high performance skateboards must be built sustainably. With custom blends of materials and a solar powered manufacturing facility, Comet Skateboards has influenced many young people and competitors alike to understand more about what they consume and to be active in the community. For the last two years Salfi has been co-producing the Hood Games (high profile block parties that inspire youth expression through skateboarding, fashion, and hip hop) to build understanding and hope of a healthy planet to youth in under-served neighborhoods. Most recently Salfi has been leveraging deep connections with youth culture to help grow the youth leadership program at Earth Island Institute and plans to assist green business in growing the reach of products and services to all spheres of society. He is also working on Cradle to Cradle community development. He lives in San Francisco with his wife Kadie and daughter Lucia.

Cameron Sinclair

Architecture for Humanity was co-founded by its Executive Director, Cameron Sinclair, who was trained as an architect at the University of Westminster and at the Bartlett School of Architecture in London. During his studies, Mr. Sinclair developed an interest in social, cultural and humanitarian design. His postgraduate thesis focused on providing shelter to New York's homeless population through sustainable, transitional housing. After completing his studies, he moved to New York where he has worked as a designer and project architect.

Sinclair is a regular guest critic and lecturer at schools and colleges in the United States and abroad. Recently he served as the Cass Gilbert Visiting Professor at the University of Minnesota. He has spoken at a number of international business and design conferences on sustainable development and post disaster reconstruction, including guest appearances on BBC World Service, CNN International and National Public Radio.

Sinclair has contributed to a number of exhibitions dealing with social justice and design. He is also a contributing writer for the blogs *Worldchanging.com* and, with Kate Stohr, has compiled a book on humanitarian design called *Design Like You Give A Damn: Architectural Responses to Humanitarian Crises*.

In 2003 Sinclair was named a Nice Modernist by *Dwell Magazine*. He is a recipient of the ASID Design for Humanity award and the Lewis Mumford Award for Peace. In 2004 *Fortune Magazine* named him as one of the Aspen Seven, seven people changing the world for the better. Most recently Sinclair was one of three winners of the 2006 TED Prize and short listed for the UK Designer of the Year.