



post carbon **institute**

Leading the transition to a resilient world.



Richard Heinberg
Senior Fellow-in-Residence



Erika Allen
Urban Farming & Social Justice



Zenobia Barlow
Ecological Literacy



Michael Bomford
Agriculture & Energy



Hillary Brown
Buildings & Design



Majora Carter
Social Justice & Communities



Richard Douthwaite
Economics & Money



Joshua Farley
Ecological Economics



Gloria Flora
Public Lands



David Fridley
Renewable Energy & Biofuels



Rob Hopkins
Community Preparedness



David Hughes
Fossil Fuels



Wes Jackson
Sustainable Agriculture



Warren Karlenzig
Urban Sustainability



John Kaufmann
Government & Peak Oil



Chris Martenson
Economy & Preparedness



Bill McKibben
Climate, Ecology & Economy



Stephanie Mills
Biodiversity & Bioregionalism



David Orr
Climate, Education & Communities



Cindy Parker
Health & Climate



Anthony Perl
Transportation



Sandra Postel
Water



William Rees
Ecology & Resilience



William Ryerson
Population



Brian Schwartz
Health & Peak Oil



Bill Sheehan
Products & Waste



Michael Shuman
Local Economies



Tom Whipple
Peak Oil



Peter Whybrow
Culture & Behavior





Founded 2003, Post Carbon Institute is leading the transition to a more resilient, equitable, and sustainable world.

Mission

Post Carbon Institute provides individuals, communities, businesses, and governments with the resources needed to understand and respond to the interrelated economic, energy, and environmental crises that define the 21st century. We envision a world of resilient communities and re-localized economies that thrive within ecological bounds.

What We Do

Post Carbon Institute has gathered 29 of the world's leading experts to point the way forward through a systems oriented, interdisciplinary, and collaborative approach. Through strong partnerships with the Transition Initiative movement and other leading innovators, we work to transform lives and communities through a powerful combination of integrated thinking and replicable direct action. These symbiotic relationships with on-the-ground leaders and grassroots organizers provide the opportunity to immediately implement and test generated ideas and strategies.

Our Goals

Post Carbon Institute has four primary goals:

- **Build awareness and understanding. Business as usual is failing us.** But most people struggle to understand why, and what to do instead. Our aim is to help people face reality, understand the true nature of the crises at hand, and take thoughtful, confident action.
- **Foster collaboration.** The worst thing one can do in a crisis is “go it alone.” Thankfully, a growing community of people is passionately addressing the pressing economic, energy and environmental concerns that threaten society. Too often, these efforts work in isolated silos. Our goal is support true collaboration that sees both the causes and solutions to these crises as interconnected.
- **Integrate knowledge.** Individual approaches and solutions to one concern can sometimes exacerbate other problems or escalate an overall crisis. Just one example: most climate change models originally failed to incorporate peaking fossil fuel supplies into their projections. Post Carbon Institute takes a whole systems approach, aimed at ensuring that solutions amplify, rather than cancel out, one another.
- **Inspire action.** The sheer enormity of the challenge at hand and the uncertainty of times ahead can lead to fear, hopelessness or paralysis. We offer people and communities with concrete, practical, and replicable actions they can take to build resilience and manage the transition ahead.





Our Programs

With these goals in mind, Post Carbon Institute has established the following programs and initiatives:

- **Fellowships.** The Institute brings together 29 of the world's leading minds in the areas of economic, energy, and environmental sustainability. Through various collaborations, our Fellows deepen, broaden and integrate their knowledge.
- **Research & Publications.** Every year, Post Carbon Institute publishes a range of books, reports, articles, commentaries, and blog posts that aim to build awareness, challenge misconceptions, promote promising models, and inspire action. Together these publications provide both an in-depth understanding of the key crises of our times and an integrated roadmap for the transition at hand.
- **Speakers Bureau.** Our Fellows, staff, and board include renowned educators and public speakers. The Institute provides conference organizers, universities, community groups, government agencies, and others with inspiring experts who share deep insights about the challenges at hand and the ways forward.
- **Transition Initiatives.** Post Carbon Institute works closely with Transition US—the national support hub for Transition Town efforts in the United States. This unique collaboration brings our Fellows' knowledge and ideas to the Transition movement, and provides our Fellows with immediate feedback on emerging models and on-the-ground challenges and opportunities. In 2009, the Institute provided seed funding and other support to launch Transition US.
- **Energy Bulletin.** EnergyBulletin.net is a tremendous resource for people looking to gain deeper insight into our energy dilemma and related sustainability issues. A great forum for new voices and new ideas, EnergyBulletin.net explores energy-related impacts on food, population, culture, and more through original articles and multimedia.





Fellows Bios

Winter 2010



Richard Heinberg **Senior Fellow-in-Residence**

Richard Heinberg is widely regarded as one of the world's foremost Peak Oil educators, having delivered hundreds of lectures on oil depletion to a wide variety of audiences around the world. He is the award-winning author of nine books including:

- The Party's Over: Oil, War and the Fate of Industrial Societies;
- Powerdown: Options and Actions for a Post-Carbon World;
- The Oil Depletion Protocol: A Plan to Avert Oil Wars, Terrorism, and Economic Collapse; and
- Blackout: Coal, Climate and the Last Energy Crisis.

Richard writes a regular column for *Ecologist* magazine and has authored scores of essays and articles that have appeared in such journals as *The American Prospect*, *Public Policy Research*, *European Business Review*, *Earth Island Journal*, *Yes! Magazine*, and *The Sun*. Richard has appeared on ABC's Good Morning America, Canadian Broadcasting Television, BBC, Australian Broadcasting Corporation, and Al Jazeera, as well as numerous radio programs and print publications. He has been featured in many film documentaries, including *The End of Suburbia* and Leonardo DiCaprio's *11th Hour*.



Erika Allen **Fellow – Urban Farming & Social Justice**

Erika Allen is Chicago Projects Manager for Growing Power, a nationally acclaimed non-profit organization and land trust providing equal access to healthy, high-quality, safe, and affordable food, especially in disadvantaged communities. She helps food producers of limited resources strengthen their farm businesses and work in partnerships to create healthy and diverse food options in inner city and rural communities.

Erika and her father, Growing Power founder Will Allen, have recently received significant attention for their work, including a feature article in *The New York Times Magazine*. Erika is co-chair of the Chicago Food Policy Advisory Council, and was appointed by Governor Pat Quinn in 2008 to the Illinois Local and Organic Food and Farm Task Force. In 2007 she was honored by Family Focus for her work in community food systems, and in 2006 she received the Good Eating Award from the Chicago Tribune. Erika has a BFA from the School of the Art Institute of Chicago and an MA in art therapy from the University of Illinois at Chicago.





Zenobia Barlow

Fellow – Ecological Literacy

Zenobia Barlow is a nationally known pioneer in creating models of schooling for sustainability. Co-founder and executive director of the Center for Ecoliteracy (CEL), she has designed strategies for applying ecological and indigenous understanding in K-12 education, including "Smart by Nature: Schooling for Sustainability," "Rethinking School Lunch," and the "Food Systems Project." She is a contributor to *Smart by Nature: Schooling for Sustainability* (2009, Watershed Media/UC Press), co-edited *Ecological Literacy: Educating Our Children for a Sustainable World* (2005) and co-authored *Ecoliteracy: Mapping the Terrain* (2000). Prior to joining CEL, Zenobia was editor of an international publishing company, a university program director, and executive director of The Elmwood Institute, an ecological think tank. She travels widely as a documentary photographer.



Michael Bomford

Fellow – Agriculture & Energy

Michael Bomford is a research scientist and extension specialist at Kentucky State University, and an adjunct faculty member in the University of Kentucky Department of Horticulture. His work focuses on organic and sustainable agriculture systems suitable for adoption by small farms operating with limited resources. His projects examine practical ways to reduce food system energy use and meet farm energy needs using renewable resources produced on-farm. Michael has a Master of Pest Management from Simon Fraser University, and a PhD in Plant and Soil Sciences from West Virginia University, where he conducted research on one of the nation's first land grant university farms operated entirely according to national organic standards.



Hillary Brown

Fellow – Buildings & Design

Hillary Brown is principal of New Civic Works, where she specializes in green design for infrastructure, public buildings, universities, and schools. While at the City of New York's Department of Design and Construction, Hillary founded the Office of Sustainable Design and was managing editor and co-author of the city's internationally recognized *High Performance Building Guidelines*. She has also co-authored *High Performance Infrastructure: Best Practices for the Public Right-Of-Way* and the *U.S. Green Building Council's State and Local Green Building Toolkit*.

Hillary has given more than 100 presentations at U.S. major universities, as well as in Europe, Asia, and the Middle East. She teaches sustainable design at Princeton, Columbia, and Bard, and is a Fellow of the Institute for Urban Systems at City University of New York. A graduate of the Yale University School of Architecture, she has been a Loeb Fellow at the Harvard University Graduate School of Design and a Bosch Public Policy Fellow at the American Academy in Berlin. Hillary has been a Board Director of the U.S. Green Building Council, and is currently a Board Member of the Healthy Schools Network.





Majora Carter

Fellow – Social Justice & Communities

Majora Carter is President of Majora Carter Group LLC. Majora simultaneously addresses public health, poverty alleviation, and climate change as one of the nation's pioneers in successful green-collar job training and placement systems. In 2001 she founded Sustainable South Bronx to achieve environmental justice through economically sustainable projects informed by community needs. Her work now includes advising cities, foundations, universities, businesses, and communities around the world on unlocking their green-collar economic potential to benefit everyone.

Majora's vision, drive, and tenacity earned her a MacArthur "Genius" Grant. In 2007 she was named one of Newsweek Magazine's "25 To Watch" and Essence Magazine's "25 most Influential African Americans." *The New York Post* named her one of the "50 most influential women in NYC" for two years, and BBC World Service named her "NYC's most influential environmentalist." Majora is a board member of the Wilderness Society, SJF Ventures, and CERES. She hosts "The Promised Land" on public radio's Launch Minneapolis, and "Eco-Heroes" on the Sundance Channel.



Richard Douthwaite

Fellow – Economics & Money

Richard Douthwaite is co-founder of Feasta, an Irish economic think tank focused on the economics of sustainability. He is also a council member of Comhar, the Irish government's national sustainability council. He acted as economic adviser to the Global Commons Institute from 1993 to 2005, during which time GCI developed the Contraction and Convergence approach to dealing with greenhouse gas emissions which has since been backed by many countries. Richard is author of *The Growth Illusion: How Economics Growth has Enriched the Few, Impoverished the Many and Endangered the Planet* (New Society, 1999) and *Short Circuit: Strengthening Local Economics for Security in an Unstable World* (Green Books, 1996).



Joshua Farley

Fellow – Ecological Economics

Joshua Farley is a renowned ecological economist working to integrate social, human, and natural capital into the way the world views economics. He is a Fellow of the Gund Institute for Ecological Economics and a Professor in the Community Development and Applied Economics faculty at the University of Vermont. With economist Herman Daly, Joshua co-authored the foundation textbook *Ecological Economics: Principles and Applications*; he also co-authored *Restoring Natural Capital: Financing and Valuation*. Joshua has received several Fellowships and has spent considerable time abroad, including several years teaching ecological economics at the School for Field Studies Centre for Rainforest Studies (CRS) in Far North Queensland Australia.





Gloria Flora
Fellow – Public Lands

Gloria Flora is founder and Director of Sustainable Obtainable Solutions, an organization dedicated to the sustainability of public lands and of the plants, animals and communities that depend on them. In her 22-year career with the U.S. Forest Service, Gloria became nationally known for her leadership in ecosystem management and for her courageous principled stands: as supervisor of the Lewis and Clark National Forest, she made a landmark decision to prohibit natural gas leasing along the 356,000-acre Rocky Mountain Front.

Gloria recently co-authored a report on how Montana can become energy self-reliant through renewable energy, efficiency and conservation. She serves on the Montana Climate Change Advisory Committee and works with the Center for Climate Strategies in assisting states develop climate change action plans. Her work has been featured in national magazines, books, radio, television and documentaries, including "NOW with Bill Moyers" and in Leonardo DiCaprio's climate change feature film, "The 11th Hour."



David Fridley
Fellow – Renewable Energy & Biofuels

Since 1995, David Fridley has been a staff scientist at the Energy Analysis Program at the Lawrence Berkeley National Laboratory in California. He is also deputy group leader of Lawrence Berkeley's China Energy Group, which collaborates with China on end-user energy efficiency, government energy management programs, and energy policy research. Mr. Fridley has nearly 30 years of experience working and living in China in the energy sector, and is a fluent Mandarin speaker. He spent 12 years working in the petroleum industry both as a consultant on downstream oil markets in the Asia-Pacific region and as business development manager for Caltex China. He has written and spoken extensively on the energy and ecological limits of biofuels.



Rob Hopkins
Fellow – Community Preparedness

Rob Hopkins is the originator of the Transition Town concept, which promotes community-driven responses to peak oil that focus on cooperative effort to meet basic needs as sustainably and close to home as possible. In just a few years, his work has inspired an international movement of hundreds of communities and thousands of people pursuing Transition initiatives. A teacher of permaculture and natural building techniques, Rob is co-founder of the Transition Network and author of *The Transition Handbook: From oil dependency to local resilience* (2008). Rob is a Trustee of the Soil Association (U.K.), the winner of the 2008 Schumacher Award, and a Fellow of Ashoka International.





David Hughes
Fellow – Fossil Fuels

David Hughes is one of Canada's most authoritative petroleum geologists. He has 35 years experience studying the energy resources of Canada, having worked both at the Geological Survey of Canada and in the private sector. He is the Leader of the National Coal Inventory, and Team Leader for Unconventional Gas for the Canadian Gas Potential Committee. David's evolving analysis of global and North American energy issues has been presented across Canada and the United States to government agencies at all levels, as well as to industry and professional groups. Aspects of his analysis have been taken up by the popular press and trade journals, including the Toronto Star, Canadian Business Magazine and the Canadian Press wire service.



Wes Jackson
Fellow – Sustainable Agriculture

Wes Jackson is one of the foremost figures in the international sustainable agriculture movement. Founder and president of The Land Institute in Salina, Kansas, he has pioneered research in Natural Systems Agriculture — including perennial grains, perennial polycultures, and intercropping — for over 30 years. He was a professor of biology at Kansas Wesleyan and later established the Environmental Studies program at California State University, Sacramento, where he became a tenured full professor. He is the author of several books including *Becoming Native to This Place* (1994), *Altars of Unhewn Stone* (1987), and *New Roots for Agriculture* (1980).

The work of the Land Institute has been featured extensively in the popular media, including The Atlantic Monthly, Audubon, "The MacNeil/Lehrer News Hour," and "All Things Considered." Life magazine predicted Wes Jackson would be among the 100 "most important Americans of the 20th century." He is a recipient of the Pew Conservation Scholars award and a MacArthur Fellowship, and has been listed as one of Smithsonian's "35 Who Made a Difference." Wes has an M.A. in botany from University of Kansas, and a Ph.D. in genetics from North Carolina State University.



Warren Karlenzig
Fellow – Urban Sustainability

Warren Karlenzig, President of Common Current, is recognized as one of the world's top experts on urban sustainability planning and metrics. He has developed sustainability plans and metrics with nations, the State of California, major cities, corporations, foundations and non-governmental organizations; his clients have included the US Department of State, the White House Office of Science and Technology, US EPA Futures Group, and the Asian Institute for Energy, Environment & Sustainability. Warren is the author of *How Green is Your City? The SustainLane US City Rankings* (New Society, 2007) and *Blueprint for Greening Affordable Housing* (Global Green USA, 1999).

Warren is on the board of directors for the Climate Change Center and the Korea Green Foundation, and has lectured in three continents, appearing in global media including *The Washington Post*, *The Wall Street Journal*, *The New York Times*, *People's Daily* (China), BBC, CNN and CNBC.





John Kaufmann

Fellow – Government & Peak Oil

John Kaufmann is Senior Buildings Energy Manager for the Pacific Northwest National Laboratory. Previously, John led energy efficiency and renewable energy efforts with the Oregon Department of Energy for 29 years, helping to make Oregon a national leader. He started as one of the nation's first state-level solar energy specialists, received the American Planning Association Professional Achievement Award for getting 26 local governments in the Portland Metro area to jointly adopt solar orientation and solar rights ordinances, and headed Oregon's efforts to adopt the nation's most energy-efficient residential and non-residential building codes. At various times he managed the agency's Residential and Business Energy Tax Credit programs, public buildings programs, new energy technologies efforts, and climate change response.

In 2006-2007 he was lead staff for the groundbreaking Portland Peak Oil Task Force, one of the first local government efforts in the world to analyze the local implications of fossil fuel decline, and was primary author of the report. He has made presentations to numerous audiences on the subject nationwide. John has a Master's in planning from Hunter College–City University of New York. He lives in Salem, Oregon.



Chris Martenson

Fellow – Economy & Preparedness

Chris Martenson is the creator of *The Crash Course*, a 20-chapter online video course that educates viewers on our broken economic system and its connection to the energy and environmental crises of the 21st century. Since its launch in 2008, *The Crash Course* has been viewed over 200,000 times online and has sold over 20,000 DVD copies. Prior to spending four years educating himself and developing the course and other materials to help individuals understand and take action, Chris was a Vice President at a Fortune 300 Company and spent over ten years in corporate finance and strategic consulting. He has a PhD in pathology from Duke University and an MBA from Cornell University.



Bill McKibben

Fellow – Climate, Ecology & Economy

Bill McKibben, scholar-in-residence at Middlebury College, is an American environmentalist and writer. He is the author of thirteen books, including *The End of Nature* (1989), the first book for a general audience about global warming, and *Deep Economy: the Wealth of Communities and the Durable Future* (2007), which addresses the shortcomings of the growth economy and envisions a transition to more local-scale enterprise. His latest book, *Eaarth: Making a Life on a Tough New Planet* explores what it means to live on a planet we've changed fundamentally. Bill is a frequent contributor to various publications including *The New York Times Magazine*, *The Atlantic Monthly*, *Rolling Stone*, and *Outside*. He is also a board member and contributor to *Grist Magazine*.

Bill is co-founder and Director of 350.org, an international campaign building a movement to unite the world around solutions to the climate crisis. He is also on the Board of 1Sky, which is assembling diverse U.S. organizations in support of a unified policy platform on climate. Bill has been awarded Guggenheim and Lyndhurst Fellowships, and won the Lannan Prize for nonfiction writing in 2000.





Stephanie Mills
Fellow – Biodiversity & Bioregionalism

Stephanie Mills is a renowned author and lecturer on bioregionalism, technology, and population. Her books include *Tough Little Beauties* (2007), *Epicurean Simplicity* (2002), and *Turning Away from Technology* (1997). An ecological activist for over 30 years, she has written or edited six books and countless articles, and edited numerous publications including *Earth Times* and *CoEvolution Quarterly*. Stephanie has lectured at numerous institutions including the E.F. Schumacher Society and the Chicago Academy of Sciences.

In her 1969 college commencement address, Stephanie decried overpopulation and natural resource exploitation and vowed to never have children — a statement *The New York Times* called "perhaps the most anguished...of the year's crop of valedictory speeches." In 1996 she was named by *Utne Reader* as one of the world's leading visionaries. Stephanie lives in Northwest Lower Michigan.



David Orr
Fellow – Climate, Education & Communities

David Orr is the Paul Sears Distinguished Professor of Environmental Studies and Senior Adviser to the President of Oberlin College. His career as a scholar, teacher, writer, speaker, and entrepreneur spans fields as diverse as environment and politics, environmental education, campus greening, green building, ecological design, and climate change. He is the author of six books, including the widely praised *Ecological Literacy* (1992) and *Earth in Mind* (1994/2004); his most recent book is *Down to the Wire: Confronting Climate Collapse*.

In 1996 David organized the effort to design the first substantially green building on a U.S. college campus. The Adam Joseph Lewis Center was later named by the U.S. Department of Energy as "One of Thirty Milestone Buildings in the 20th Century." His recent projects include a two year, \$2 million project to define a 100-days climate action plan for the Obama Administration. David is Trustee of the Rocky Mountain Institute and Bioneers.



Cindy Parker
Fellow – Health & Climate

Cindy Parker is on the faculty at the Bloomberg School of Public Health at Johns Hopkins University, where she co-directs the Program on Global Sustainability and Health. She is also an Instructor in the Department of Earth and Planetary Sciences where she directs the new undergraduate major in Global Environmental Change and Sustainability. Her professional interests include education, policy work, practice, and research on the global environmental topics of climate change, peak petroleum, and sustainability. She is a frequent speaker on the topic and recently co-authored *Climate Chaos: Your Health at Risk* (2008).

Cindy received her MD from the University of Arizona and her Masters in Public Health from the Johns Hopkins Bloomberg School of Public Health. She is board certified in Public Health and General Preventive Medicine and is a Fellow of the American College of Preventive Medicine, where she is also Co-Chair of the Environmental Health Committee. She also serves on the National Board of Directors for Physicians for Social Responsibility.





Anthony Perl
Fellow - Transportation

Anthony Perl is Director of the Urban Studies Program at Simon Fraser University in Vancouver, British Columbia; he has previously worked at the City University of New York, the University of Calgary, and Université Lumière in Lyon, France. He has authored or co-authored four books, most recently *Transport Revolutions: Moving People and Freight Without Oil* (2008). Anthony's research crosses disciplinary and national boundaries to explore the policy decisions that affect transportation, cities and the environment. He has published in scholarly journals such as *Energy Policy*, *Transportation Research*, *Transportation Quarterly*, *World Transport Policy and Practice*, and *Scientific American*.

Anthony's work been awarded prizes for outstanding papers presented at the World Conference on Transport Research and the Canadian Transportation Research Forum. He has advised governments in Australia, Belgium, Canada, France, and the United States on transportation and environmental research and policy development, and currently chairs the Intercity Passenger Rail committee of the U.S. Transportation Research Board, a division of the National Research Council.



Sandra Postel
Fellow - Water

Sandra Postel is a leading authority and prolific author on international water issues; she directs the independent Global Water Policy Project. In 1992 Postel authored *Last Oasis: Facing Water Scarcity*, which now appears in eight languages and was the basis for a PBS documentary that aired in 1997. She is also author of *Pillar of Sand: Can the Irrigation Miracle Last?* (1999) and co-author of *Rivers for Life: Managing Water for People and Nature* (2003). Her article "Troubled Waters" was selected for inclusion in the 2001 edition of Best American Science and Nature Writing. Sandra has authored well over 100 articles for popular, scholarly, and news publications, including *Science*, *Scientific American*, *Foreign Policy*, *The New York Times*, and *The Washington Post*.

A frequent conference speaker and lecturer, she has served as commentator on CNN's "Futurewatch," addressed the European Parliament on environmental issues, and appeared on CBS' "Sunday Morning," ABC's "Nightline," and NPR's "Science Friday." From 1988 to 1994, Sandra was vice president for research at Worldwatch Institute. From 2000 to 2008 she was visiting senior lecturer, and later director of the Center for the Environment at Mount Holyoke College. A 1995 Pew Scholar in Conservation and the Environment, Sandra has been awarded two honorary Doctor of Science degrees and, in 2002, was named one of the "Scientific American 50" for her contributions to water policy.





William Rees
Fellow – Ecology & Resilience

William Rees is a Professor and former Director of the School of Community and Regional Planning at the University of British Columbia (UBC), where he has taught since 1969. He is the co-originator of the widely-used "ecological footprint" concept; his classic book on the subject, *Our Ecological Footprint* (1996, with Mathis Wackernagel), is now available in nine languages. Bill's teaching and research emphasize the public policy and planning implications of global environmental trends and the necessary ecological conditions for sustaining socioeconomic activity. Much of his work is in ecological economics and human ecology.

Bill has delivered countless lectures on ecological footprint analysis, ecological economics, and human ecology around the world. He is a founding member and recent past-President of the Canadian Society for Ecological Economics; a co-investigator in the Global Integrity Project; and a Founding Fellow of the One Earth Initiative. In 2006 he was elected to the Royal Society of Canada and in 2007 he was awarded a prestigious 3-year Pierre Elliott Trudeau Foundation Fellowship.



William Ryerson
Fellow - Population

William Ryerson is founder and President of Population Media Center and President of the Population Institute. He has a 38-year history of working in the field of reproductive health, including two decades of experience adapting the Sabido methodology for behavior change communications to various cultural settings worldwide. He has been involved in research to measure the effects of such projects in a number of countries, one of which led to a series of publications regarding a serialized radio drama in Tanzania and its effects on HIV/AIDS avoidance and family planning. In 2006, he was awarded the Nafis Sadik Prize for Courage from the Rotarian Action Group on Population and Development. William received a B.A. in Biology (Magna Cum Laude) from Amherst College and an M.Phil. in Biology from Yale University.



Brian Schwartz
Fellow – Health & Peak Oil

Brian Schwartz is a Professor in the Department of Environmental Health Sciences in the Bloomberg School of Public Health at Johns Hopkins University, where he is also Co-Director of the Program on Global Sustainability and Health and of the Environmental Health Institute. He has conducted extensive research on the health effects of chemicals via occupational, environmental and molecular epidemiology studies. Brian's career has included research, teaching and training, as well as clinical and public health practice.

In the past several years, Brian has increasingly focused on global environmental sustainability, and how land use and energy use are contributing to global climate change, ecosystem degradation, biodiversity and species losses — ultimately posing important risks to individual and population health. He is engaged in ongoing studies on land use and obesity; local food and physical activity environments and the progression of diabetes; abandoned mine lands and community health; and evaluating the public health risks posed by peak oil. Brian received a B.S. from Tufts University, an M.D. from Northwestern University Medical School, and an M.S. in clinical epidemiology from the University of Pennsylvania School of Medicine.





Bill Sheehan
Fellow – Products & Waste

Bill Sheehan co-founded the Product Policy Institute with Helen Spiegelman in 2003 and serves as its Executive Director. Bill advocates for public policy that protects public health and safety and slows climate change by encouraging waste prevention, clean production and reduced use of toxics in products. He developed, with Spiegelman, an historical analysis that showed how municipal recycling and waste management services unfairly enable product manufacturers to design and sell goods without considering disposal costs and impacts.

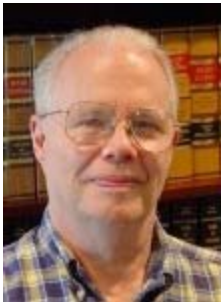
Since 2005, Bill has worked with local governments, communities and NGOs to bring "extended producer responsibility" (EPR) policies to the U.S. to spur green product design. This work resulted in the formation of local government Product Stewardship Councils in California, New York, Texas and Vermont; he is working in several other states to form Councils. Bill holds a Ph.D. in ecology from Cornell University.



Michael Shuman
Fellow – Local Economies

Michael Shuman is Director of Research and Public Policy at the Business Alliance for Local Living Economies (BALLE). He holds an A.B. with distinction in economics and international relations from Stanford University and a J.D. from Stanford Law School. Michael has authored, coauthored, or edited seven books, including *The Small Mart Revolution: How Local Businesses Are Beating the Global Competition* (2006) and *Going Local: Creating Self-Reliant Communities in the Global Age* (1998). *The Small-Mart Revolution* was awarded a bronze medal for best business book by the Independent Publishers' Association.

In recent years, Michael has led community-based economic-development efforts in St. Lawrence County (NY), Hudson Valley (NY), Katahdin Region (ME), Martha's Vineyard (MA), and Carbondale (CO), and served as a senior editor for the recently published *Encyclopedia of Community*. He has given an average of more than one invited talk per week for 25 years throughout the United States and the world.



Tom Whipple
Fellow – Peak Oil

Tom Whipple is one of the most highly respected analysts of peak oil issues in the United States. A retired 30-year CIA analyst who has been following the peak oil story since 1999, Tom is the editor of the daily Peak Oil News and the weekly Peak Oil Review, both published by the Association for the Study of Peak Oil-USA. He is also a weekly columnist on peak oil issues for the Falls Church News Press. Tom has degrees from Rice University and the London School of Economics.





PHOTO: AMY FOSTER (CC-BY)

Peter Whybrow
Fellow – Culture & Society

Peter Whybrow is an international authority on depression and manic-depressive disease and the effects of thyroid hormone on brain and human behavior. He is Director of the Semel Institute for Neuroscience and Human Behavior, Executive Chair of the Department of Psychiatry and Biobehavioral Sciences at the David Geffen School of Medicine, and CEO of the Resnick Neuropsychiatric Hospital — all at the University of California in Los Angeles (UCLA).

Peter is a frequent advisor to universities, foundations, and government agencies and is the author of numerous scientific papers and six books. His latest book, *American Mania: When More Is Not Enough* (2006), is a provocative neurobiological analysis of the origins of the instinctual and social behaviors that balance a market economy, and explains how our reward-driven debt-fueled economy fostered the culture of greed and excess that triggered the world financial crisis of 2008. Peter is a founding member and Fellow of the Royal College of Psychiatrists, and Fellow of the American Association for the Advancement of Science, the American College of Psychiatrists, and the American Psychiatric Association, he has lectured widely across the United States and Europe, and is the recipient of many awards.





post carbon institute

Post Carbon Institute is leading the transition to a more resilient, equitable, and sustainable world.

We offer a comprehensive understanding of the 21st century's most pressing economic, energy, and environmental crises.

We envision a world of resilient communities thriving in the face of these unprecedented challenges.

Find out more at postcarbon.org.