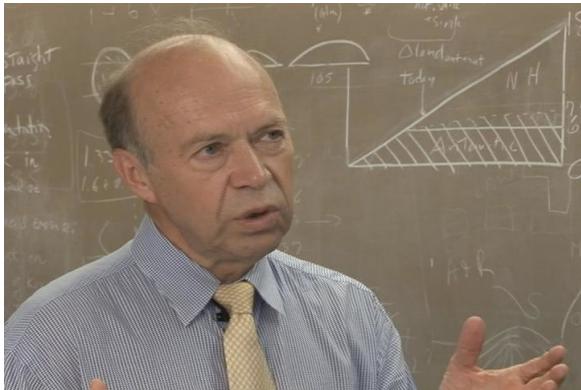


# The First Millimeter: HEALING THE EARTH

## EXPERTS BIOGRAPHIES



**James Hansen (PhD, NASA Goddard)**

**Institute for Space Studies**) directs the NASA Goddard Institute for Space Studies in New York City and is Adjunct Professor of Earth Sciences at Columbia University's Earth Institute. He was recently chosen by his peers to receive the 2009 Carl-Gustaf Rossby Research Medal, the highest honor bestowed by the American Meteorological Society. Best known for his innovative research in the field of climatology, he advocates action to limit the impacts of climate change and efforts to close the gap between what is understood about global warming by the relevant scientific community and what policy-makers and the public know.



**Allan Savory (Founder, Holistic Management International)**

**International**) was born in Rhodesia, southern Africa. He pursued an early career as a research biologist and game ranger in the British Colonial Service of what was then Northern Rhodesia (today Zambia), and later as a politician, international consultant, farmer and game rancher in Southern Rhodesia (today Zimbabwe). In the 1960s while working on the interrelated problems of increasing poverty and disappearing wildlife, he made a significant breakthrough in understanding what was causing the degradation and desertification of the world's grassland ecosystems. He went on to work, as a resource management consultant, with numerous managers, eventually on four continents, to develop sustainable solutions. He served as a Member of Parliament in the latter days of Zimbabwe's civil war and leader of the opposition to the ruling party headed by Ian Smith. Exiled in 1979 as a result of his opposition, he immigrated to the United States, where he co-founded Holistic Management International with his wife,

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Jody Butterfield. Their most recent book, *Holistic Management: A New Framework for Decision-Making* (Island Press, 1999), describes Savory's effort to find workable solutions that ordinary people could implement to overcome many of the problems besetting communities and businesses today.

**Christine Jones, PhD** is an internationally renowned and highly respected groundcover and soils ecologist. She has a wealth of experience working with innovative landholders to implement regenerative land management techniques that enhance biodiversity, increase biological activity, sequester carbon, activate soil nutrient cycles, restore water balance, improve productivity and create new topsoil. Christine has organized and participated in workshops, field days, seminars and conferences throughout Australia, New Zealand, South Africa, Zimbabwe and the USA and has a strong publication and presentation record.

Christine received a Community Fellowship Award from Land and Water Australia in 2001. The LWA Community Fellowship Program provides recognition to individuals with an outstanding track record in mobilizing and inspiring the community to better manage their land, water and vegetation'.

**Christopher Field, PhD (Founding Director of the Carnegie Institution's Department of Global Ecology)** is also Professor of Biology and Environmental Earth System Science at Stanford University, and Faculty Director of Stanford's Jasper Ridge Biological Preserve. The author of more than 200 scientific publications, Field's research emphasizes impacts of climate change, from the molecular to the global scale. His work includes major field experiments on responses of California grassland to multi-factor global change, integrative studies on the global carbon cycle, and assessments of impacts of climate change on agriculture. Field's work with models includes studies on the global distribution of carbon sources and sinks, and studies on environmental consequences of expanding biomass energy. Field has served on many national and international committees related to global ecology and climate change.

**Pushker Kharecha, PhD, Climate Scientist, NASA Columbia University Earth Institute** is fascinated by many aspects of Earth science, particularly climate science, with an interest of conducting scientific research that can help to inform sound environmental policies. His research at NASA Goddard Institute for Space Studies focuses on the global carbon cycle with a special interest in the human dimensions of the carbon cycle, such as the impacts of past, present, and future land use and fossil fuels on the climate.

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**Seth Wilner (Cooperative Extension Agricultural Educator, Univ. of New Hampshire)** joined UNH Cooperative Extension in August of 2000. Prior to taking the Sullivan County position, he worked as an Extension Educator with the University of Wisconsin Cooperative Extension System. His responsibilities were focused around water quality, soil fertility, nutrient management, environmental stewardship, land use planning and community development issues.

As a Peace Corps volunteer in Senegal, West Africa, he developed a passion for agriculture. Working with village farmers and market vendors, Seth found great satisfaction teaching techniques to increase crop yields, soil fertility and food storage. Seth is a strong advocate of community development principals and believes deeply in grassroots issue identification and voluntary implementation of practices to address pressing societal concerns.

**Phil Metzger** has been a professional conservationist for the United States Department of Agriculture (USDA)-Natural Resources Conservation Service (NRCS) for 25 years. Currently he is the Resource Conservation & Development (RC&D) Coordinator for the USDA-NRCS in Norwich, New York, where he directs conservation and rural economic development programs as part of a partnership of nonprofit and for-profit organizations, federal, state and local agencies, and individuals.

Phil has extensive experience working with diverse partners in natural resource conservation and rural economic development and in providing technical assistance to land users in farmland and other resources management. In 1997, he traveled extensively throughout Europe as a rural development expert studying local power generation opportunities utilizing bioenergy crops. Phil holds a Bachelor's of Science in Agriculture from West Virginia University, and an Associates of Applied Science in Biology from State University of New York (SUNY), Cobleskill.

**Michael and Louisa Kiely** are Conveners of the Carbon Coalition Against Global Warming and regular speakers at the "Managing The Carbon Cycle" Forums around Australia. They have been delegates at many high level symposia in Australia and the USA. The couple endured 25 flights in 22 days on a fact-finding tour of the USA on behalf of Australian abatement providers in 2006. While there, they negotiated the first order for soil carbon credits from the Chicago Climate Exchange. They appeared as expert witnesses before the NSW Premier's Advisory Panel on Greenhouse Gas. They are members of the Australian Business Council for Sustainable Energy. For the Carbon Coalition - which has more than 550 members across Australia and a chapter in the USA - they manage member registration and communication (email newsletters, websites and blog sites), lobbying and representation to federal and state politicians and ministers, fundraising and seeking sponsorship, seeking funds for research, co-

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coordinating submissions to government climate change and carbon trading enquiries, and liaising with scientists. They set up Carbon Farmers™ as a vehicle so members could trade their soil carbon.

**Bruce Ward** has extensive experience in irrigation and dry land farming, grazing and small business. Based in Inverell NSW where he operates a grazing property, he works with people across Australia particularly in the Riverina, Western Australia, Victoria, northern NSW and New Zealand. Bruce has been leading groups in training since 1994.

In Australia HM training courses have been conducted since 1994, when the first course was run by Bruce Ward, a former Colly Farms boss and today one of eight certified HM "educators" operating in this Australia. Since then, more than 800 people from all States but Tasmania, mainly farm family members, have undertaken the 10-day training course, and demand for places in courses is growing apace.

**Terry S. Wollen, DVM** serves as the Director of Animal Well-Being and Staff Veterinarian with Heifer International. Heifer promotes integrated community-based animal agriculture with an emphasis on the use of local livestock and agro-ecological resources. This program provides training to Heifer staff and partners, collaboration with other agencies doing similar activity, working with veterinarians and other animal scientists in improved animal management.

Dr. Wollen's background is in food animal medicine and production. His experience includes the Army Veterinary Corps; large animal veterinary practice in dairy, beef and equine medicine in Idaho; and 20 years in research and development with the Bayer Corporation, Animal Health Division. Since then, he has worked in international development programs directly as Head of Mission for UMCOR in Armenia and with Heifer International in Asia before returning to the US as Director of Animal Well-Being with Heifer International's World Headquarters in Little Rock, Arkansas.