

## ESSENTIAL POINTS FOR POLICY MAKERS

### Scientists' Consensus on Maintaining Humanity's Life Support Systems in the 21<sup>st</sup> Century

Earth is at a tipping point. Human impacts are causing alarming levels of harm to our planet. How we manage those impacts in the next few decades is critical for maintaining a high quality of life. As scientists who study the interaction of people with the rest of the biosphere from a wide range of approaches, we agree that the evidence that humans are damaging their ecological life-support systems is overwhelming.

*We further agree that, based on the best scientific information available, human quality of life will suffer substantial degradation by the year 2050 if we continue on our current path.*

Science unequivocally demonstrates the human impacts of key concern:

- **Climate disruption**—more, faster climate change than since humans first became a species.
- **Extinctions**—not since the dinosaurs went extinct have so many species and populations died out so fast, both on land and in the oceans.
- **Wholesale loss of diverse ecosystems**—we have plowed, paved, or otherwise transformed more than 40% of Earth's ice-free land, and no place on land or in the sea is free of our direct or indirect influences.
- **Pollution**—environmental contaminants in the air, water and land are at record levels and increasing, seriously harming people and wildlife in unforeseen ways.
- **Human population growth and consumption patterns**—seven billion people alive today will likely grow to 9.5 billion by 2050, and the pressures of heavy material consumption among the middle class and wealthy may well intensify.



Illustration by Cheng (Lily) Li

By the time today's children reach middle age, it is extremely likely that Earth's life-support systems, critical for human prosperity and existence, will be irretrievably damaged by the magnitude, global extent, and combination of these human-caused environmental stressors, **unless we take concrete, immediate actions to ensure a sustainable, high-quality future.**

*As members of the scientific community actively involved in assessing the biological and societal impacts of global change, we are sounding this alarm to the world. For humanity's continued health and prosperity, we all—individuals, businesses, political leaders, religious leaders, scientists, and people in every walk of life—must work hard to solve these five global problems, starting today:*

1. *Climate Disruption*
2. *Extinctions*
3. *Loss of Ecosystem Diversity*
4. *Pollution*
5. *Human Population Growth and Resource Consumption*

## Overview of Problems and Broad-Brush Solutions

<p style="text-align: center;"><b>Climate Disruption</b></p> <p><i>Reduce effects of climate disruption by decreasing greenhouse gas emissions, and by implementing adaptation strategies to deal with the consequences of climate change already underway.</i> Viable approaches include accelerating development and deployment of carbon-neutral energy technologies to replace fossil fuels; making buildings, transportation, manufacturing systems, and settlement patterns more energy-efficient; and conserving forests and regulating land conversion to maximize carbon sequestration. Adapting to the inevitable effects of climate change will be crucial for coastal areas threatened by sea-level rise; ensuring adequate water supplies to many major population centers; maintaining agricultural productivity; and for managing biodiversity and ecosystem reserves.</p>	
<p style="text-align: center;"><b>Extinctions</b></p> <p><i>Slow the very high extinction rates that are leading to a global loss of biodiversity.</i> Viable approaches include assigning economic valuation to the ways natural ecosystems contribute to human well-being; and managing all ecosystems, both in human-dominated regions and in regions far from direct human influence, to sustain and enhance biodiversity and ecosystem services. It will be critical to develop cross-jurisdictional cooperation to recognize and mitigate the interactions of global pressures (for example, climate change, ocean acidification) and local pressures (land transformation, overfishing, poaching endangered species, etc.).</p>	<p style="text-align: center;"><b>Pollution</b></p> <p><i>Curb the manufacture and release of toxic substances into the environment.</i> Viable approaches include using current science about the molecular mechanisms of toxicity and applying the precautionary principle (verification of no harmful effects) to guide regulation of existing chemicals and design of new ones. We have the knowledge and ability to develop a new generation of materials that are inherently far safer than what is available today.</p>
<p><i>Overall, we urge the use of the best science available to anticipate most-likely, worst-case, and best-case scenarios for 50 years into the future, in order to emplace policies that guide for environmental health over the long-term as well as adapting to immediate crises.</i></p>	
<p style="text-align: center;"><b>Ecosystem Transformation</b></p> <p><i>Minimize transformation of Earth's remaining natural ecosystems into farms, suburbs, and other human constructs.</i> Viable agricultural approaches include increasing efficiency in existing food-producing areas; improving food-distribution systems; and decreasing waste. Viable development approaches include enhancing urban landscapes to accommodate growth rather than encouraging suburban sprawl; siting infrastructure to minimize impacts on natural ecosystems; and investing in vital 'green infrastructure,' such as through restoring wetlands, oyster reefs, and forests to secure water quality, flood control, and boost access to recreational benefits.</p>	<p style="text-align: center;"><b>Population Growth and Consumption</b></p> <p><i>Bring world population growth to an end as early as possible and begin a gradual decline.</i> An achievable target is no more than 8.5 billion people by 2050 and a peak population size of no more than 9 billion, which through natural demographic processes can decrease to less than 7 billion by 2100. Viable approaches include ensuring that everyone has access to education, economic opportunities, and health care, including family planning services, with a special focus on women's rights.</p> <p><i>Decrease per-capita resource use, particularly in developed countries.</i> Viable approaches include improving efficiency in production, acquisition, trade, and use of goods and promoting environmentally-friendly changes in consumer behavior.</p>

## Statement Drafted Through Collaboration of:

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## Signed By:

*By providing my name, professional position, and institutional affiliation as noted below, I indicate that I agree that concerted efforts must begin immediately to halt climate disruption, extinctions, ecosystem loss, environmental contamination, and human population growth and over-consumption. I agree that the best scientific evidence available indicates that if we do not take action to immediately reverse these dangerous trends, the world of our children will be substantially degraded with respect to what we have today.*

AS OF 5-2-13 08:30 A.M.

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DATE: 26/4/2013

NAME: Professor Roger Kitching AM  
POSITION: Chair of Ecology  
INSTITUTION: Griffith University,  
Brisbane  
DATE: 26.4.2010

NAME: Alan K. Knapp  
POSITION: Professor of Biology  
INSTITUTION: Colorado State  
University  
DATE: April 25, 2013

NAME: Andrew H. Knoll  
POSITION: Fisher Professor of Natural  
History  
INSTITUTION: Harvard University  
DATE: April 30, 2013

NAME: Matthew L. Knope  
POSITION: Post-doctoral research  
fellow  
INSTITUTION: Dept. of Geological  
and Environmental Sciences, Stanford  
University  
DATE: April 25, 2013

NAME: Jacob Koella  
POSITION: Professor  
INSTITUTION: University of Neuchatel  
DATE: 4/30/2013

NAME: Claire Kremen  
POSITION: Professor  
INSTITUTION: University of California,  
Berkeley  
DATE: 4/25/13

NAME: Markku Kulmala  
POSITION: Academy Professor  
INSTITUTION: University of Helsinki,  
Department of Physics  
DATE: 2.5. 2013

NAME: Juri Kurhinen  
POSITION: researcher, Helsinki  
University  
INSTITUTION: koordinator of the  
international project  
DATE: 02.05.2013

NAME: Thomas A. Kursar  
POSITION: Professor  
INSTITUTION: University of Utah  
(Dept of Biology)  
DATE: 27 April, 2013

## L

NAME: Prof. Mike Lawes  
POSITION: Professor, Savanna  
Management and Wildlife  
Conservation, Research Institute For  
The Environment And Livelihoods  
INSTITUTION: Charles Darwin  
University  
Darwin, Northern Territory 0909,  
AUSTRALIA  
DATE: 26 April 3013

NAME: Stephanie Lawson  
POSITION: Professor of Politics and  
International Relations  
INSTITUTION: Macquarie University,  
Sydney, NSW, Australia  
DATE: 1 May 2013

NAME: Jennifer Leonard  
POSITION: permanent researcher  
INSTITUTION: Estación Biológica de  
Doñana, Consejo Superior de  
Investigaciones Científicas  
DATE: April 25, 2013

NAME: Estella B. Leopold  
POSITION: Professor Emeritus,  
Department of Biology  
INSTITUTION: University of  
Washington  
DATE: April 23, 2013

NAME: Simon Levin  
POSITION: Professor  
INSTITUTION: Princeton University  
DATE: April 25, 2013

NAME: William Z. Lidicker, Jr.  
POSITION: Professor of Integrative  
Biology Emeritus  
INSTITUTION: University of California,  
Berkeley  
DATE: 29 April 2013

May 2, 2013

NAME: MAURICIO LIMA  
POSITION: FULL PROFESSOR  
INSTITUTION: DEPARTAMENTO  
DE ECOLOGÍA, FACULTAD DE  
CIENCIAS BIOLÓGICAS,  
PONTIFICIA UNIVERSIDAD  
CATOLICA DE CHILE  
DATE: 25/04/2013

NAME: Ken Lindeman  
POSITION: Professor, Sustainability  
Program Chair  
INSTITUTION: Florida Institute of  
Technology  
DATE: April 27, 2013

NAME: Richard L. Lindroth  
POSITION: Professor and Associate  
Dean for Research  
INSTITUTION: University of  
Wisconsin-Madison  
DATE: April 29, 2013

NAME: Lee Hsiang Liow  
POSITION: Researcher  
INSTITUTION: Centre for Ecological  
and Evolutionary Synthesis,  
Department of Biosciences, University  
of Oslo, Oslo, Norway  
DATE: 25 April 2013

NAME: Jere H. Lipps  
POSITION: Professor Emeritus  
INSTITUTION: University of  
California, Berkeley  
DATE: April 29, 2013

NAME: Jianguo (Jack) Liu  
POSITION: Rachel Carson Chair in  
Sustainability and Director  
INSTITUTION: Center for Systems  
Integration and Sustainability,  
Michigan State University  
DATE: 4/26/13

NAME: Michael E. Loik  
POSITION: Associate Professor,  
Department of Environmental Studies  
INSTITUTION: University of California,  
Santa Cruz  
DATE: April 25, 2013

NAME: John Longino  
POSITION: Professor  
INSTITUTION: Department of Biology,  
University of Utah  
DATE: 26 April 2013

NAME: Cindy V. Looy  
POSITION: Assistant Professor  
INSTITUTION: UC Berkeley and UC  
Museum of Paleontology  
DATE: April 29, 2013

NAME: Jonathan Losos  
POSITION: Professor and Curator  
INSTITUTION: Dept of Organismic and  
Evolutionary Biology and Museum of  
Comparative Zoology, Harvard  
University

DATE: April 28, 2013

NAME: Thomas E. Lovejoy  
POSITION: University Professor  
INSTITUTION: George Mason  
University  
DATE: April 25, 2013

NAME: Stephen Luby  
POSITION: Professor of Medicine  
INSTITUTION: Stanford University  
DATE: April 29, 2013

NAME: Per Lundberg  
POSITION: Professor  
INSTITUTION: Dept. Biology, Lund  
University, Lund, Sweden  
DATE: 30 April, 2013

## M

NAME: Manuel Maass  
POSITION: Research Scientist  
INSTITUTION: Centro de  
Investigaciones en Ecosistemas  
(CIEco), Universidad Nacional  
Autónoma de México (UNAM)  
DATE: April 27, 2013

NAME: James A. MacMahon  
POSITION: Dean, College of Science  
INSTITUTION: Utah State University  
DATE: 25 April 2013

NAME: Jan van der Made  
POSITION: Scientific researcher  
(Investigador científico)  
INSTITUTION: Consejo Superior de  
Investigaciones Científicas (CSIC),  
Museo Nacional de Ciencias Naturales  
(Madrid, Spain).  
DATE: 25-4-2013

NAME: Adjunct Prof Jonathan Majer  
POSITION: Recently retired as  
Professor of Invertebrate Conservation  
INSTITUTION: Curtin University, Perth,  
Western Australia  
DATE: 26/Apr/13

NAME: Stephanie A. Malin, Ph.D.  
POSITION: Mellon Foundation  
Postdoctoral Fellow with Center for  
Environmental Studies and Superfund  
Research Program  
INSTITUTION: Brown University  
DATE: 26 April 2013

NAME: Michael A. Mallin  
POSITION: Research Professor  
INSTITUTION: Center for Marine  
Science, University of North Carolina  
Wilmington  
DATE: April 25, 2013

NAME: W. Andrew Marcus  
POSITION: Professor of Geography &  
Associate Dean, Social Sciences  
INSTITUTION: University of Oregon  
DATE: April 29, 2013

NAME: Airam Rodríguez Martín  
POSITION: Postdoctoral Researcher  
INSTITUTION: Estación Biológica de  
Doñana CSIC  
DATE: 25 April 2013

NAME: Pablo Marquet  
POSITION: Full Professor of Ecology  
INSTITUTION: Pontificia Universidad  
Catolica de Chile  
DATE: April 28, 2013

NAME: Richard A. Marston  
POSITION: University Distinguished  
Professor  
INSTITUTION: Kansas State University  
DATE: 30 April 2013

NAME: Damon Matthews  
POSITION: Associate Professor  
INSTITUTION: Concordia University,  
Montreal, Canada  
DATE: April 29, 2013

NAME: Dr. Peter B. McIntyre  
POSITION: Assistant Professor  
INSTITUTION: University of  
Wisconsin  
DATE: 26 April 2013

NAME: Galen A. McKinley  
POSITION: Associate Professor of  
Atmospheric and Oceanic Sciences;  
Faculty Affiliate, Center for Climatic  
Research, Nelson Institute for  
Environmental Studies  
INSTITUTION: University of  
Wisconsin - Madison  
DATE: May 1, 2013

NAME: Sarah McMenamin  
POSITION: Postdoctoral Researcher  
INSTITUTION: University of  
Washington  
DATE: April 25, 2013

NAME: Rodrigo A. Medellín  
POSITION: Senior Professor of Ecology  
INSTITUTION: National Autonomous  
University of Mexico  
DATE: April 25, 2013

NAME: Timothy D. Meehan  
POSITION: Associate Scientist  
INSTITUTION: Wisconsin Energy  
Institute, University of Wisconsin-  
Madison  
DATE: 29 May 2013

NAME: Natalia Gañán Mejías  
POSITION: Postdoctoral researcher  
INSTITUTION: Unaffiliated  
DATE: 26/04/2013

NAME: Sarah Keene Meltzoff  
POSITION: Associate Professor  
INSTITUTION: Rosenstiel School of  
Marine and Atmospheric Science,  
University of Miami  
DATE: 28 April 2013



NAME: Katrin Meissner  
POSITION: Associate Professor  
INSTITUTION: University of New  
South Wales  
DATE: 29.04.2013

NAME: Santiago Merino  
POSITION: Professor of Research  
INSTITUTION: Higher Council for  
Scientific Research (CSIC-SPAIN)  
DATE: 25-04-2013

NAME: Fiorenza Micheli  
POSITION: Professor  
INSTITUTION: Stanford University,  
Hopkins Marine Station  
DATE: 25 April 2013

NAME: Brian Miller, Ph.D.  
POSITION: Senior Scientist  
INSTITUTION: Wind River Ranch  
Foundation, PO Box 27, Watrous NM  
87753  
DATE: April 25, 2013

NAME: Professor Bruce Milthorpe  
POSITION: Dean of Science  
INSTITUTION: University of  
Technology Sydney  
DATE: 1 May 2013

NAME: David P. Mindell  
POSITION: Visiting Professor  
INSTITUTION: University of California,  
San Francisco  
DATE: 25 April 2013

NAME: Brent D. Mishler  
POSITION: Professor of Integrative  
Biology, Director of the University and  
Jepson Herbaria  
INSTITUTION: University of California,  
Berkeley  
DATE: April 29, 2013

NAME: Atte Moilanen  
POSITION: Professor, Conservation  
Decision Analysis  
INSTITUTION: University of Helsinki,  
Dept. Biosciences  
DATE: April 25, 2013

NAME: Arne O. Mooers  
POSITION: Professor of Biodiversity  
INSTITUTION: Simon Fraser  
University, Canada  
DATE: April 25, 2013

NAME: Harold A. Mooney  
POSITION: Professor Emeritus,  
Department of Biology, and Senior  
Fellow, Woods Institute  
INSTITUTION: Stanford University  
DATE: April 23, 2013

NAME: Juan Moreno  
POSITION: Research Professor CSIC  
(Spanish Council for Scientific  
Research)  
INSTITUTION: Department of  
Evolutionary Ecology, National  
Museum  
of Natural Sciences (CSIC), Madrid,  
Spain  
DATE: 26 April 2013

NAME: John Peterson Myers  
POSITION: CEO and Chief Scientist  
INSTITUTION: Environmental Health  
Sciences, Charlottesville, Virginia  
DATE: April 23, 2013

NAME: Atle Mysterud  
POSITION: Professor  
INSTITUTION: University of Oslo,  
Norway  
DATE: 25. April 2013

## N

NAME: Nalini Nadkarni  
POSITION: Full Professor, Dept of  
Biology, and Director,  
Center for Science and Mathematics  
Education  
INSTITUTION: University of Utah  
DATE: April 26, 2013

NAME: Shahid Naeem  
POSITION: Professor of Ecology  
INSTITUTION: Columbia University  
DATE: 25 April 2013

NAME: NORET Nausicaa  
POSITION: ASSISTANT PROFESSOR  
INSTITUTION: UNIVERSITE LIBRE  
DE BRUXELLES  
DATE: 30 04 2013

NAME: Rosamond L. Naylor  
POSITION: Director, Program on Food  
Security and the Environment and  
Professor, Department of  
Environmental Earth System Science  
INSTITUTION: Stanford University  
DATE: April 23, 2013

NAME: Ioan Negrutiu  
POSITION: Professor biology  
INSTITUTION: ENS Lyon, Michel  
Serres Institute  
DATE: April 25, 2013

NAME: GRACIELA G. NICOLA  
POSITION: FULL PROFESSOR  
INSTITUTION: UNIVERSITY OF  
CASTILLA-LA MANCHA (UCLM),  
SPAIN  
DATE: 29/04/2013

NAME: Rasmus Nielsen  
POSITION: Professor  
INSTITUTION: University of California  
- Berkeley  
DATE: April 29 2013

NAME: DAVID NOGUÉS-BRAVO  
POSITION: ASSOCIATE  
PROFESSOR  
INSTITUTION: UNIVERSITY OF  
COPENHAGEN  
DATE: 25-APRIL-2013

## O

NAME: Karen Oberhauser  
POSITION: Professor  
INSTITUTION: University of  
Minnesota  
DATE: 4/29/2013

NAME: John C. Ogden  
POSITION: Emeritus Professor  
INSTITUTION: University of South  
Florida (USF)  
DATE: April 30, 2013

NAME: Gordon H. Orians  
POSITION: Professor Emeritus of  
Biology  
INSTITUTION: University of  
Washington, Seattle, WA 98195  
DATE: April 25, 2013

NAME: John Orrock  
POSITION: Assistant Professor  
INSTITUTION: Department of Zoology,  
University of Wisconsin-Madison  
DATE: April 30, 2013

NAME: Otso Ovaskainen  
POSITION: Professor  
INSTITUTION: University of Helsinki,  
Finland  
DATE: April 25th 2013

## P

NAME: Kevin Padian  
POSITION: Professor and Curator  
INSTITUTION: University of  
California, Berkeley  
DATE: 4/29/2013

NAME: LUIS F. PACHECO  
POSITION: PROFESSOR AND  
RESEARCHER  
INSTITUTION: INSTITUTO DE  
ECOLOGÍA, UNIVERSIDAD  
MAYOR DE SAN ANDRÉS, LA PAZ,  
BOLIVIA  
DATE: 24 APRIL, 2013

NAME: Dianna K Padilla  
POSITION: Professor, Department of  
Ecology and Evolution  
INSTITUTION: Stony Brook University  
DATE: April 25 2013

NAME: Stephen Palumbi  
POSITION: Professor, Department of  
Biology and Director, Hopkins Marine  
Station, Stanford University  
DATE: April 23, 2013

NAME: John M. Pandolfi  
POSITION: Professor

INSTITUTION: University of  
Queensland, Brisbane, Queensland,  
AUSTRALIA  
DATE: 26 April 2013

NAME: Mario Garcia Paris  
POSITION: Permanent Researcher  
(Investigador Científico)  
INSTITUTION: MNCN-CSIC (Museo  
Nacional de Ciencias Naturales-  
Consejo Superior de Investigaciones  
Científicas, Spain)  
DATE: 25/April/2013

NAME: James L. Patton, PhD  
POSITION: Curator and Professor  
Emeritus  
INSTITUTION: Museum of Vertebrate  
Zoology and Department of Integrative  
Biology, University of California,  
Berkeley  
DATE: 25 April 2013

NAME: Jonathan L. Payne  
PROFESSIONAL POSITION:  
Associate Professor  
INSTITUTIONAL AFFILIATION:  
Dept. of Geological & Environmental  
Sciences, Stanford University  
DATE: April 28, 2013

NAME: Kabir G. Peay  
POSITION: Assistant Professor  
INSTITUTION: Stanford University  
DATE: 4/25/2013

NAME: Melissa Pespeni  
POSITION: National Science  
Foundation Postdoctoral Fellow in  
Biology  
INSTITUTION: Indiana University  
DATE: April 25, 2013

NAME: Stuart Pimm  
POSITION: Doris Duke Chair of  
Conservation  
INSTITUTION: Duke University  
DATE: 28th April 2013

NAME: Stephanie Pincetl, PhD  
POSITION: Adjunct Professor,  
Director, Center for Sustainable  
Communities, Institute of the  
Environment and Sustainability  
INSTITUTION: UCLA  
DATE: April 26, 2013

NAME: Malin L. Pinsky  
POSITION: David H. Smith  
Conservation Research Fellow  
INSTITUTIONAL AFFILIATION:  
Princeton University  
DATE: April 24, 2013

NAME: Miguel Pinto  
POSITION: PhD Student  
INSTITUTION: American Museum of  
Natural History  
DATE: 25 April 2013

NAME: P. David Polly  
POSITION: Professor  
INSTITUTION: Department of  
Geological Sciences, Indiana  
University  
DATE: 25 April 2013

NAME: Warren P. Porter  
POSITION: Professor of Zoology and  
Professor of Environmental Toxicology  
INSTITUTION: University of  
Wisconsin, Madison  
DATE: 25 April 2013

NAME: Hugh Possingham  
POSITION: Professor and Centre  
Director  
INSTITUTION: The University of  
Queensland  
DATE: 25 April 2013

NAME: Malcolm Potts  
POSITION: Professor, School of Public  
Health  
INSTITUTION: University of  
California-Berkeley  
DATE: April 25, 2013

NAME: Mary E. Power  
POSITION: Professor  
INSTITUTION: Univ. California,  
Berkeley  
DATE: April 25, 2013

NAME: Daniel Press  
POSITION: Olga T. Griswold  
Professor, Environmental Studies  
Department and Executive Director,  
Center for Agroecology and  
Sustainable Food Systems  
INSTITUTION: University of California,  
Santa Cruz  
DATE: April 28, 2013

NAME: Aili Pyhälä  
POSITION: Postdoctoral Researcher  
INSTITUTION: Department of  
Biosciences, University of Helsinki  
DATE: 25th April 2013

NAME: Dr Graham H. Pyke  
POSITION: Distinguished Professor  
INSTITUTION: School of the  
Environment, University of  
Technology Sydney  
DATE: 26 April 2013

## Q

## R

NAME: Nancy N. Rabalais  
POSITION: Executive Director and  
Professor  
INSTITUTION: Louisiana Universities  
Marine Consortium  
DATE: 49 April 2013

NAME: Paul A Racey  
POSITION: Co-Chair, IUCN Bat  
Specialist Group  
INSTITUTION: Regius Professor of  
Natural History (Emeritus), University  
of Aberdeen.  
Honorary Visiting Professor, University  
of Exeter in Cornwall  
DATE: 30 April 2013

NAME: Dr. John E. Rawlins  
POSITION: Curator of Invertebrate  
Zoology  
INSTITUTION: Carnegie Museum of  
Natural History  
DATE: 1 May 2013

NAME: Harry F. Recher  
POSITION: Emeritus Professor  
INSTITUTION: Edith Cowan  
University, School of Natural Sciences,  
Joondalup, Western Australia,  
Australia  
DATE: 26 April 2013

NAME: William E. Rees, PhD, FRSC  
POSITION: Professor Emeritus  
INSTITUTION: University of British  
Columbia  
DATE: 26 April 2013

NAME: Klaus Rohde  
POSITION: Professor Emeritus  
INSTITUTION: University of New  
England, Armidale, Australia  
DATE: 26.4.2013

NAME: Jonathan Rhodes  
POSITION: Senior Lecturer  
INSTITUTION: The University of  
Queensland  
DATE: 29<sup>th</sup> April 2013

NAME: Brett R. Riddle  
POSITION: Professor  
INSTITUTION: University of Nevada  
Las Vegas  
DATE: 26 April 2013

NAME: Annapaola Rizzoli  
POSITION: DVM, PhD, Animal  
Ecology Research Group Leader  
INSTITUTION: Research and  
Innovation Centre, Department of  
Biodiversity and Molecular Ecology,  
Edmund Mach Foundation, San  
Michele all'Adige (TN), Italy  
DATE: 26/04/2013

NAME: Dr Lisa Roberts  
POSITION: Visiting Fellow,  
Environmental Science / Design  
INSTITUTION: University of  
Technology, Sydney  
DATE: 29 April 2013

NAME: John G. Robinson, Ph.D.  
POSITION: Executive Vice President,  
Conservation and Science  
INSTITUTION: Wildlife Conservation

Society  
DATE: April 25, 2013  
  
NAME: Johan Rockström  
POSITION: Professor, Water systems and Global Sustainability; Director, Stockholm Resilience Centre  
INSTITUTION: Stockholm University  
DATE: April 25, 2013

NAME: Antonio Gonzalez Rodriguez  
POSITION: Researcher  
INSTITUTION: Universidad Nacional Autonoma de Mexico  
DATE: April 27th, 2013

NAME: Helen Rowe  
POSITION: Assistant Research Professor  
INSTITUTION: School of Life Sciences, Arizona State University  
DATE: 4-26-2013

NAME: Lasse Ruokolainen  
POSITION: Postdoctoral fellow  
INSTITUTION: University of Helsinki  
DATE: 26.4.2013

## S

NAME: Osvaldo Sala  
POSITION: Julie A. Wrigley Professor of Life Sciences and Sustainability  
INSTITUTION: Arizona State University  
DATE: 4/25/2013

NAME: Peter F Sale  
POSITION: Assistant Director, Institute for Water, Environment and Health  
INSTITUTION: United Nations University  
DATE: April 25th 2013

NAME: James Schaefer  
POSITION: Professor  
INSTITUTION: Trent University  
DATE: 26 April 2013

NAME: William H. Schlesinger  
POSITION: President  
INSTITUTION: Cary Institute of Ecosystem Studies  
DATE: April 25, 2013

NAME: Christoph Scheidegger, Prof. Dr.  
POSITION: Senior Scientist and Chair Research Group Biodiversity  
INSTITUTION: Swiss Federal Institute for Forest, Snow and Landscape Research, WSL, Zürcherstr. 111, CH-8903 Birmensdorf, Switzerland  
DATE: April 30, 2013

NAME: Fabrizio Sergio  
POSITION: Researcher (permanent post)  
INSTITUTION: Estacion Biologica de Donana - Consejo Superior de Investigaciones Cientificas, Seville, Spain  
DATE: 25 April 2013

NAME: DAVID SERRANO  
POSITION: ASSOCIATE PROFESSOR  
INSTITUTION: EBD-CSIC  
DATE: 25 April 2013

NAME: Michael Shapira  
POSITION: Adjunct assistant professor  
INSTITUTION: Department of Integrative biology, UC Berkeley  
DATE: 4/29/13

NAME: Steven Sherwood  
POSITION: Professor, Director of the Climate Change Research Centre  
INSTITUTION: University of New South Wales  
DATE: 1 May 2013

NAME: Anne Sheppard  
POSITION: Research Assistant  
INSTITUTION: School of Life Sciences, University of Warwick, UK.  
DATE: 26th April 2013

NAME: Richard Shine  
POSITION: Professor in Biology  
INSTITUTION: University of Sydney  
DATE: 26 April 2013

NAME: Candida Shinn  
POSITION: post-doctoral researcher  
INSTITUTION: IMAR - Instituto do Mar  
DATE: 25.4.2013

NAME: Fernando Simal  
POSITION: Manager, Natural and Historic Resources Unit  
INSTITUTION: STINAPA Bonaire  
DATE: April 26<sup>th</sup>, 2013

NAME: Ellen L. Simms  
POSITION: Professor, Integrative Biology  
INSTITUTION: University of California, Berkeley  
DATE: 29 April 2013

NAME: Adam B. Smith  
POSITION: Postdoctoral Researcher  
INSTITUTION: Center for Conservation and Sustainable Development, Missouri Botanical Garden  
DATE: April 25th, 2013

NAME: Kirk R. Smith  
POSITION: Professor of Global Environmental Health  
INSTITUTION: University of California Berkeley  
DATE: April 25, 2013

NAME: Dr. Allison A. Snow  
POSITION: Professor of Biology  
INSTITUTION: Ohio State University  
DATE: April 25, 2013

NAME: Manuel Soler  
POSITION: Full Professor  
INSTITUTION: Department of Zoology, Granada University, Spain  
DATE: 25 April 2013

NAME: Michael Soule  
POSITION: Emeritus Professor,  
INSTITUTION: UCSC  
DATE: 4-25-13

NAME: Wayne P. Sousa  
POSITION: Professor  
INSTITUTION: Department of Integrative Biology, University of California, Berkeley  
DATE: April 29, 2013

NAME: Donald W. Spady MD, MSc.  
POSITION: Adjunct Associate Professor of Pediatrics & Public Health  
INSTITUTION: Faculty of Medicine & Dentistry, and School of Public Health, University of Alberta, Edmonton, Canada  
DATE: April 28, 2013

NAME: Chelsea Specht  
POSITION: Associate Professor and Curator  
INSTITUTION: University of California, Berkeley  
DATE: 29 April 2013

NAME: Nils Christian Stenseth  
POSITION: Leader, Center for Ecological and Evolutionary Synthesis, and Chief Scientist, Norwegian Institute of Marine Research  
INSTITUTION: University of Oslo  
DATE: April 23, 2013

NAME: Simon N. Stuart, PhD  
POSITION: Visiting Professor, Department of Biology and Biochemistry, University of Bath  
INSTITUTION: Chair, Species Survival Commission, International Union for Conservation of Nature; Senior Biodiversity Advisor, Conservation International; Senior Biodiversity Advisor, World Conservation Monitoring Centre  
DATE: 30 April 2013

NAME: Jonathon Stillman  
POSITION: Associate Professor - and - Adjunct Assistant Professor  
INSTITUTION: San Francisco State University - and - University of California Berkeley  
DATE: April 29, 2013

NAME: Dr. David Suzuki, Emeritus

POSITION: Professor, Sustainable  
Development Research Institute  
INSTITUTION: University of British  
Columbia, Vancouver, BC, Canada  
DATE: April 29, 2013

NAME: Andrew Szasz  
POSITION: Professor of Environmental  
Studies  
INSTITUTION: University of  
California, Santa Cruz  
DATE: April 26, 2013

NAME: Alina M. Szmant  
POSITION: Professor of Marine  
Biology  
INSTITUTION: Center for Marine  
Science, University of North Carolina  
Wilmington  
DATE: April 25, 2013

T

NAME: Gary M. Tabor  
POSITION: Executive Director  
INSTITUTION: Center for Large  
Landscape Conservation  
DATE: 25 April, 2013

NAME: Celine Teplitsky  
POSITION: Research scientist  
INSTITUTION: CNRS & French  
Natural History Museum  
DATE: 29/04/2013

NAME: John Terborgh  
POSITION: Research Professor,  
Nicholas School of the Environment  
and Earth Sciences  
INSTITUTION: Duke University  
DATE: April 29, 2013

NAME: John N. Thompson  
POSITION: Distinguished Professor of  
Ecology and Evolutionary Biology  
INSTITUTION: University of California,  
Santa Cruz  
DATE: 30 April 2013

NAME: Alan Townsend  
POSITION: Professor, Dept of Ecology  
and Evolutionary Biology Fellow,  
Institute of Arctic and Alpine Research  
INSTITUTION: University of Colorado,  
Boulder  
DATE: April 25, 2013

NAME: ANNA TRAVESET  
POSITION: RESEARCH PROFESSOR  
INSTITUTION: SPANISH RESEARCH  
COUNCIL  
DATE: APRIL 26, 2013

NAME: Marcel van Tuinen  
POSITION: Associate Professor  
INSTITUTION: UNC at Wilmington  
DATE: 4/25/13

U

NAME: James W. Valentine  
POSITION: Professor of Integrative  
Biology, Emeritus  
INSTITUTION: UC Berkeley  
DATE: April 19, 2013

NAME: Fernando Valladares  
POSITION: Research Professor  
INSTITUTION: Spanish Council for  
Scientific Research (CSIC)  
DATE: April 24, 2013

NAME: Montserrat Vila  
POSITION: Reserach Professor  
INSTITUTION: estación Biológica de  
Doñana (EBD-CSIC)  
DATE: April, 25th, 2013

NAME: Geerat J. Vermeij  
POSITION: Distinguished Professor of  
Geology, Department of Geolo  
INSTITUTION: University of California  
at Davis  
DATE: April 25, 2013

NAME: Peter Vitousek  
POSITION: Professor  
INSTITUTION: Stanford University  
DATE: April 26, 2013

W

NAME: Mathis Wackernagel, Ph.D.  
POSITION: President, Global Footprint  
Network, and Visiting Professor  
INSTITUTION: Cornell University  
DATE: 28 April 2013

NAME: David B. Wake  
POSITION: Professor of the Graduate  
School in Integrative Biology  
INSTITUTION: University of California  
at Berkeley  
DATE: April 25, 2013

NAME: Marvalee H. Wake  
POSITION: Professor of the Graduate  
School, Department of Integrative  
Biology  
INSTITUTION: University of  
California-Berkeley  
DATE: April 23, 2013

NAME: Diana H. Wall  
POSITION: University Distinguished  
Professor and School of Global  
Environmental Sustainability  
INSTITUTION: Colorado State  
University  
DATE: April 25, 2013

NAME: Don Waller  
POSITION: John T. Curtis Professor of  
Botany and Chair, Department of  
Botany, Biological Aspects of  
Conservation Major, Wisconsin

Ecology  
INSTITUTION: University of  
Wisconsin – Madison  
DATE: April 26, 2013

NAME: Dr Haydn Washington  
POSITION: Visiting Fellow, Institute of  
Environmental Studies  
INSTITUTION: University of New  
South Wales (Australia)  
DATE: 29 April 2013

NAME: Les Watling  
POSITION: Professor  
INSTITUTION: University of Hawaii at  
Manoa  
DATE: 26 April 2013

NAME: David M Watson  
POSITION: Associate Professor in  
Ecology  
INSTITUTION: Charles Sturt  
University  
DATE: 26 April 2013

NAME: Andrew Weaver  
POSITION: Lansdowne Professor and  
Canada Research Chair  
INSTITUTION: School of Earth and  
Ocean Sciences, University of Victoria  
DATE: April 25, 2013

NAME: Anthony LeRoy Westerling  
POSITION: Associate Professor,  
Geography and Environmental  
Engineering  
INSTITUTION: Sierra Nevada  
Research Institute, University of  
California, Merced  
DATE: April 26, 2013

NAME: Tim D. White  
POSITION: Professor, Department of  
Integrative Biology  
INSTITUTION: The University of  
California at Berkeley  
DATE: May 1, 2013

NAME: Ruscena Wiederholt  
POSITION: Assistant Research Scientist  
INSTITUTION: University of Arizona  
DATE: 4/25/13

NAME: Susan L. Williams  
POSITION: Professor  
INSTITUTION: Dept. of Evolution &  
Ecology and Bodega Marine  
Laboratory, University of California at  
Davis  
DATE: 25 April 2013

NAME: Dawn J. Wright, Ph.D., GISP  
POSITION: Chief Scientist  
INSTITUTION: Environmental Systems  
Research Institute (Esri)  
DATE: April 26, 2013

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May 2, 2013

Y

NAME: Norman Yan, PhD, FRSC  
POSITION: Professor  
INSTITUTION: York University,  
Toronto, Canada  
DATE: April 28, 2013

Z

NAME: Kelly R. Zamudio

POSITION: Professor of Ecology &  
Evolutionary Biology  
INSTITUTION: Cornell University  
DATE: April 29, 2013

NAME: Jake Vander Zanden  
POSITION: Professor  
INSTITUTION: University of  
Wisconsin-Madison  
DATE: 4/25/2013

NAME: Joy B. Zedler  
POSITION: Professor of Botany and  
Aldo Leopold Chair of Restoration  
Ecology  
INSTITUTION: University of  
Wisconsin - Madison  
DATE: 4/30/2013