

Science, Environment and Development Group 2006-2007

William Clark, Professor, SED Group Co-Director
Nancy Dickson, Senior Researcher, SED Group Co-Director

Mary Anne Baumgartner, Faculty Assistant
Richard Carey, Coordinator of Information Technology
Ashwini Chhatre, Post-doctoral Research Fellow
Corrado Clini, Senior Research Fellow
Robert Frosch, Senior Researcher
Lars H. Gulbrandsen, Doctoral Research Fellow
Kelsey Jack, Doctoral Research Fellow
Gili Koniak, Doctoral Research Fellow
Carolyn Kousky, Doctoral Research Fellow
Jessica Leino, Doctoral Research Fellow
Kira Matus, Doctoral Research Fellow
Elizabeth McNie, Doctoral Research Fellow
Suerie Moon, Pre-doctoral Research Fellow
Erik Nielsen, Doctoral Research Fellow
David Kepue ole Nkedianye, Doctoral Research Fellow
Nora O'Neil, Project Coordinator
Elizabeth Reinhardt, Associate
Kate Emans Sims, Doctoral Research Fellow
Nicole Szlezák, Doctoral Research Fellow
Juan Carlos Vargas-Moreno, Doctoral Research Fellow
Gloria Visconti, Research Fellow
Juergen Weichselgartner, Post-doctoral Research Fellow

Mary Anne Baumgartner is faculty assistant to Professor [William Clark](#), Professor [Calestous Juma](#), and [Nancy Dickson](#) at [Harvard's Kennedy School of Government](#). She supports the [Science, Environment and Development Group](#) and the [Sustainability Science Program](#) at [Harvard's Center for International Development](#). This includes editorial support for research publications and event coordination. Prior to coming to the Kennedy School she worked in marketing and communications for architects and engineers in the USA and the UK. In addition to her interests in the arts, the environment, and the built environment, she is involved in alumni activities for [Milton Academy](#) and [Bennington College](#) where she received a BA in History.

Richard Carey is Coordinator of Information Technology for the [Science, Environment and Development Group](#) and supports the [Sustainability Science Program](#) at [Harvard's Center for International Development](#). He has over ten years of Internet industry experience including four years as Senior Systems Developer at the former ROXY.com satellite and wireless company. He has worked as a freelance technology consultant, project manager, and web applications developer.

Ashwini Chhatre is a Post-doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate at the [Department of Political Science, Duke University](#). His dissertation investigates the influence of democratic politics and electoral competition on the ability of rural communities to cooperate for natural resource management. With support from the National Science Foundation, he collected data on community-managed forestry, fisheries, and irrigation initiatives in the Himalayan state of Himachal Pradesh in north India. Chhatre's post-doctoral project conceptualizes the co-production of environment and development outcomes at local and higher scales as an interaction of demography, technology, and markets, and explores the role of democratic institutions in explaining variations in sustainable development. He will continue his work in India while developing comparisons with other countries. Chhatre has collaborated with Vasant Saberwal on the politics of biodiversity conservation and will Arun Agrawal on the role of property rights in explaining resource condition in the Western Himalayas. He worked as a trade union activist in central India, and a community organizer in Himachal Pradesh. He is a recipient of the F.K. Weyerhaeuser Forest History Fellowship (2004) and the NSF Doctoral Dissertation Improvement Grant (2004-06). Chhatre holds a degree in Economics from the [University of Delhi](#). He enjoys cooking, walking, and tennis. [CV](#).

Corrado Clini is a Senior Research Fellow at Harvard's [Center for International Development](#) and Associate at the [Harvard University Center for the Environment](#). He is Director General of [Italy's Ministry for the Environment Land and Sea](#) and Chairman of the [Global Bioenergy Partnership](#) launched at the [G8 Gleneagles Summit](#). Dr. Clini is project leader of national and international cooperation programs (240 projects in 45 countries) on environment, energy and sustainable development and is chairman of the National Sustainable Development Strategy and the Task Force for the implementation of the Kyoto Protocol in Italy. He is a Visiting Professor at the [Tsinghua University- Beijing](#) in the Department of Environmental Sciences and Engineering. He trained as a medical doctor and received his PhD in public and occupational health.

William C. Clark is the Harvey Brooks Professor of International Science, Public Policy and Human Development at Harvard University's [Kennedy School of Government](#) and co-directs the [Sustainability Science Program](#) and the [Science, Environment and Development Group](#) at [Harvard's Center for International Development](#). Trained as an ecologist, his research focuses on the interactions of environment, development and security concerns in international affairs, with a special emphasis on the role of science and technology in shaping those interactions. Clark is co-author of *Adaptive Environmental Assessment and Management* (Wiley, 1978) and *Redesigning Rural Development* (Hopkins, 1982); editor of the *Carbon Dioxide Review* (Oxford, 1982); and co-editor of *Sustainable Development of the Biosphere* (Cambridge, 1986), *The Earth Transformed by Human Action* (Cambridge, 1990), [Learning to Manage Global Environmental Risks](#) (MIT, 2001), [Global Environmental Assessments](#) (MIT, 2006), and [Global Environmental Assessments: Information and Influence](#) (MIT, 2006). He is an Associate Editor of the [Proceedings of the US National Academy of Sciences](#), and serves on the editorial boards of [Annual Review of Environment and Natural Resources](#) and [Environment: Science and Policy for Sustainable Development](#). Clark is a member of the

U.S. [National Academy of Sciences](#), where he serves on the [Roundtable on Science and Technology for Sustainability](#) and co-chaired the study [Our Common Journey: A Transition Toward Sustainability](#) (National Research Council, 1999). He is co-founder and board member of the international [Initiative on Science and Technology for Sustainability](#) (ISTS), and chairs the environmental reporting program of the [Heinz Center for Science Economics and the Environment](#) that produces a periodic report on [The State of the Nation's Ecosystems](#) (Cambridge University Press, 2002, 2005). Clark is a recipient of the MacArthur Prize, the Humboldt Prize, and the Kennedy School's Carballo Award for excellence in teaching.

Nancy Dickson is a Senior Researcher at Harvard University's [Kennedy School of Government](#) and co-directs the [Sustainability Science Program](#) and the [Science, Environment and Development Group](#) at Harvard's [Center for International Development](#). Dickson's research focuses on making science and technology knowledge more useful for problem-solving and decision-support activities in the arena of human-environment systems. It focuses on two areas. The first is on knowledge systems for decision support, understanding how the choice of institutions and procedures for linking practitioners and experts influences knowledge production and its effects. The second is on sustainability science, an area encompassing use-inspired fundamental research on interactions between human and environmental systems. Dickson has managed international, interdisciplinary research applications and capacity building [projects](#) based at Harvard's Kennedy School of Government since 1991. She serves on the National Academy of Science Committee [Extending Observations and Research Results to Practical Applications: A Review of NASA's Approach](#). Her publications include [Global Environmental Assessments: Information and Influence](#) (2006), [Sustainability science](#) (2003), and [Learning to Manage Global Environmental Risks](#) (2001). She trained as an environmental planner at [Cornell University](#).

Robert A. Frosch is a Senior Researcher at Harvard's [Kennedy School of Government](#). He is also a Guest Investigator in the [Applied Ocean Physics and Engineering Department](#) at the [Woods Hole Oceanographic Institution](#). He is Co-Chair of the Report Review Committee of [The National Academies](#). He conducted research in ocean acoustics at Columbia and later served as Director for Nuclear Test Detection, and Deputy Director of the [Advanced Research Projects Agency](#) in the [Department of Defense](#), Assistant Secretary of the Navy for Research and Development, Assistant Executive Director of the [United Nations Environment Programme](#), Associate Director for Applied Oceanography of the [Woods Hole Oceanographic Institution](#), Administrator of [NASA](#), President of the [American Association of Engineering Societies](#), and Vice President of [General Motors Corporation](#) in charge of Research Laboratories. He is a member of the [National Academy of Engineering](#), the [American Academy of Arts and Sciences](#), a Foreign Member of the [UK Royal Academy of Engineering](#), and a fellow or member of a number of professional societies. He is a theoretical physicist by education (AB, Columbia College, '47 and PhD, [Columbia University](#), '52).

Lars H. Gulbrandsen is a Doctoral Research Fellow at Harvard's [Center for International Development](#). He is a Senior Research Fellow at the [Fridtjof Nansen](#)

[Institute](#) in Norway and a doctoral candidate in the [Department of Political Science at the University of Oslo](#). His doctoral research deals with the emergence and effectiveness of non-state institutions for environmental governance. He focuses on certification and labeling schemes in the forestry sector, and compares forest certification with other cases of certification and labeling, particularly in the fisheries sector. One component of the project explores the role of knowledge and knowledge producers in this context. The research project is funded by the [Research Council of Norway](#). Gulbrandsen has published in the areas of environmental politics and corporate social responsibility. He has a M.Phil. in political science from the [University of Oslo](#) and a M.Sc. in social and organizational psychology from the [London School of Economics and Political Science](#).

Brooke "Kelsey" Jack is a Doctoral Research Fellow at Harvard's [Center for International Development](#) and a doctoral candidate in the [Public Policy Program](#) at Harvard's [Kennedy School of Government](#). She is interested in incentive-based conservation, with a focus on the design of incentive mechanisms to shape household decision-making related to natural resources in developing countries. She has conducted field work on agroforestry systems in Indonesia under a payment for ecosystem services project implemented by the [World Agroforestry Centre - ICRAF](#). Kelsey spent two years with [The World Conservation Union - IUCN](#) in Lao PDR, where she worked on issues of conservation and rural livelihoods. She has also worked at the World Resources Institute, New York University Law School Dean's Office, and the Princeton Environmental Institute. She is a recipient of the Vicki Norberg-Bohm Fellowship (2006) and a Center for International Development Doctoral Research Grant (2006). Jack received her undergraduate degree in public and international affairs from Princeton University's [Woodrow Wilson School](#).

Gili Koniak is a Doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate at the [Institute of Plant Sciences, Faculty of Agricultural, Food and Environmental Quality Sciences, Hebrew University of Jerusalem](#). The subject of her thesis is "Development and application of a multiple-benefits management dynamic model of Mediterranean landscape," under the supervision of Prof. [Imanuel Noy-Meir](#) and Prof. [Avi Perevolotzky](#). Her research involves ecological theory, computer modeling, and evaluation of agricultural, social and biological benefits. Her field work takes place in [Ramat Hanadiv Park](#) (Mt. Carmel), Israel. She is the recipient of Fulbright (2006) and Baron de Hirsch (2006) scholarships. Koniak received her undergraduate degree in [Agricultural Economics](#) from the [Hebrew University of Jerusalem](#).

Carolyn Kousky is a Doctoral Research Fellow at Harvard's [Center for International Development](#) and the [Environmental Economics Program](#) at Harvard University. She is a doctoral candidate in the [Public Policy Program](#) at Harvard's [Kennedy School of Government](#). Kousky is involved in two areas of research. The first is exploring public policies to provide ecosystem services. She has looked at local governments in the United States that are investing in natural capital to provide flood mitigation and water purification and is now studying the design of contracts between the government and landowners to provide ecosystem services. She is also interested in natural disaster

policy and private decision-making regarding locating in risky areas. She is the recipient of a [Teresa Heinz Scholar for Environmental Research](#) grant (2006) and was a previous recipient of the [Crump Fellowship](#) (2005). Kousky received a BS, with honors and distinction, in Earth Systems from [Stanford University](#).

Jessica Leino is a Doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate in the [Economics Department](#) at the [University of California at Berkeley](#). She studies how to design institutions that improve the provision of local public goods. She is collecting data from a randomized evaluation in rural Kenya to examine how the participation of women in management committees may improve local management of water and other resources. Leino has previously worked as a researcher at the [Brookings Institution](#) and as a project evaluation consultant in East Africa for the World Bank and several NGOs. She has been awarded the National Science Foundation Graduate Research Fellowship (2003), in addition to research grants from the [Institute of Business and Economic Research](#) at Berkeley. She received an MPhil with merit in [Development Studies](#) from [Cambridge University](#) in 2001 and an AB in Economics *magna cum laude* from [Harvard University](#) in 2000. She enjoys traveling, hiking and baking in her spare time.

Kira Matus is Doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate in the [Public Policy Program](#) at Harvard's [Kennedy School of Government](#). Her research focuses on the application of innovative technology to address sustainable development. She is working with the [Green Chemistry Institute](#) to explore the potential of green chemistry as a "leap-frog" technology in the United States, India and China. She is the recipient of the Vicki Norberg-Bohm Fellowship (2006). Matus received an SM in [Technology and Policy](#) from the [Massachusetts Institute of Technology \(MIT\)](#) in 2005. While at MIT, she was a research assistant in the [Joint Program for the Science and Policy of Global Change](#). As a part of that group, she worked to quantify the economic impacts of the health effects of urban air pollution on the economies of the United States and China. She was a participant in the [Alliance for Global Sustainability's](#) IPOS graduate student symposium in 2004 in Thailand. Matus is a 2003 graduate of [Brown University](#) where she earned an ScB in chemistry.

Elizabeth McNie is a Doctoral Research Fellow at Harvard's [Center for International Development](#) and a doctoral candidate in the [Environmental Studies Program](#) at the [University of Colorado at Boulder](#) where she was a research assistant at the [Center for Science and Technology Policy Research](#). McNie explores how to improve the utility of scientific information in decision-making and the institutional design, organizational dynamics, and social capital needed for forging effective linkages between scientists and decision makers. Her doctoral research explores how scientists and policy makers co-produce short-term climatic information that is both needed and used in the National Oceanic and Atmospheric Administration's [Regional Integrated Sciences and Assessments \(RISA\) Program](#). She also researches 'boundary organizations' that facilitate the integration of knowledge and action for sustainable development. This research focuses on the [Rewarding Upland Poor for Environmental Services](#) (RUPES)

projects developed and implemented by the [World Agroforestry Centre – ICRAF](#) in Indonesia. McNie was a fellow with the NSF [Integrative Graduate Education and Research Traineeship](#) program (IGERT) from 2002-2005, and was the co-recipient of an NSF International Supplemental Research Grant that focused on paleo-climate research and climate policy in Iceland. She has an MA in Psychology/Organization Development from [Sonoma State University](#) and a BS and minor in Marine Transportation and Engineering from the [California Maritime Academy](#). She is also a U.S. Merchant Marine Officer.

Suerie Moon is a Pre-doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate in the [Public Policy Program](#) at Harvard's [Kennedy School of Government](#). Her research interests include the role of international civil society in global governance; access to medicines and intellectual property rights policies; and equity in public health in the developing world. Prior to coming to Harvard, she was a campaigner, researcher, and writer for the [Médecins Sans Frontières/Doctors Without Borders](#) (MSF) international [Campaign for Access to Essential Medicines](#), where she focused on intellectual property rights, equity prices for medicines, and research and development into 'neglected diseases.' She holds a Masters in Public Affairs, with a focus on international relations, from the [Woodrow Wilson School of Public and International Affairs](#) at [Princeton University](#), and a BA from [Yale University](#).

Erik Nielsen is a Doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate at the [Department of Urban Studies and Planning's Environmental Policy Group](#) at the [Massachusetts Institute of Technology](#). His field is environmental public policy with an emphasis on East and Southeast Asia. His research analyzes the role of non-governmental interests in the process of environmental policy formulation and implementation. He focuses on transboundary environmental governance in the Greater Mekong Sub-Region, with an emphasis on how local and transnational civil society actors can influence China's decision-making over transboundary natural resources management. Nielsen worked at the [Food and Agriculture Organization of the United Nations](#) in Rome from 1998-2003 where he was coordinator of the Community Forestry Unit's global conflict management programme and team leader of an FAO programme on natural resource conflict management for Ghana. He is a recipient of [Canada's Social Sciences and Humanities Research Council](#) Doctoral Fellowship and a member of the [Martin Family Society of Fellows for Sustainability](#). He has a master's degree from [Cornell University](#) in International Development Communication, with a double minor in Adult Education and Latin American Studies, and an undergraduate degree from the [University of Guelph](#) in Natural Resources Management and International Development. He is a national of Canada.

David Kepue ole Nkedianye is a Doctoral Research Fellow at Harvard's [Center for International Development](#) and a doctoral candidate studying pastoralism and land use at the [Centre for Environmental Change and Sustainability](#) in the [School of GeoSciences](#) at the [University of Edinburgh](#) in Scotland. His dissertation focuses on drought-induced impacts on livelihoods and the role of policy and protected areas on the Maasai of East Africa. He is also a Graduate Fellow at the [International Livestock Research Institute](#) in

Kenya where he previously worked as a [Community Facilitator](#) in Kitengela, south of Nairobi. He has worked with the Friends of Nairobi National Park, the [Mara Conservancy](#), and the [African Wildlife Foundation](#) on pastoral livelihoods issues within community conservation areas and benefit-sharing mechanisms in support of conservation. He also worked as a secondary school teacher. He is involved in volunteer efforts in education and development. He holds a Masters degree in Rural Sociology and Community Development from the [University of Nairobi](#).

Nora O'Neil is the Project Coordinator for the [Science, Environment and Development Group](#) and supports the [Sustainability Science Program](#) at [Harvard's Center for International Development](#). Her responsibilities include grant administration, financial management, and editorial support for research publications. From 1996-2002 she was the Project Coordinator of the Harvard Information Infrastructure Project at Harvard's [Kennedy School of Government](#). O'Neil is a graduate of the [Georgetown University School of Foreign Service](#) as a concentrator in the [Science, Technology and International Affairs Program](#) with a Certificate in Russian Studies.

Elizabeth D. Reinhardt is an Associate at Harvard's [Center for International Development](#) and the [Harvard University Center for the Environment](#). She is working with Dr. Robert Kates on a Reader on Sustainability Science. She leads the [Fire Ecology and Fuels Project](#) at the [Rocky Mountain Research Station, Missoula Fire Sciences Laboratory](#), Missoula, MT., and is Director of the [Forest Service's Fire Modeling Institute](#). She has degrees in English (A.B., Harvard University), and forestry (M.S. 1982, and Ph.D., 1991, University of Montana). Her research has included studies of tree mortality, fuel consumption, modeling fire effects, and canopy fuels.

Kate Emans Sims is a Doctoral Research Fellow at [Harvard's Center for International Development](#) and at the [Environmental Economics Program](#) at Harvard University. She is a PhD candidate in the [Program in Political Economy and Government](#), which is jointly supported by the [Kennedy School of Government](#), the [Economics Department](#), and the [Government Department](#). Her work explores how institutions and policies shape the interaction between land conservation and economic development outcomes. Current projects include research on how protected area policies for forest conservation have impacted village-level economic growth in Thailand and on the effectiveness of local policies and politics for preserving green space in Massachusetts towns and cities. She has worked as a researcher for organizations including the [Stockholm Environment Institute-Boston](#), [Verité](#), and the Piper Jaffray Social Equity Investment Group, and also taught science and geography in Chiang Mai, Thailand. Sims is a recipient of the James and Cathleen Stone Fellowship in Environmental Economics (2002) and a National Science Foundation Graduate Research Fellowship (2004-2007). She holds a degree in Ecology and Evolutionary Biology from [Princeton University](#) and enjoys hiking and playing ultimate frisbee in her spare time.

Nicole Szlezák is a Doctoral Research Fellow at Harvard's [Center for International Development](#) and a doctoral candidate in the [Public Policy Program](#) at Harvard's [Kennedy School of Government](#). Her work focuses on institution building and

governance in global health. She is interested in new forms of collaboration in global health, including public private partnerships, civil society organizations, and private sector approaches. Her dissertation will investigate the Global Fund to Fight Aids, Tuberculosis and Malaria and its influence on Aids policy in China. Her research also focuses on institutional arrangements to foster drug development and delivery for diseases that receive little attention in terms of research and development. These include infectious diseases that mainly affect developing countries (the "neglected diseases" such as malaria, tb and river blindness) as well as rare diseases that appear everywhere ("orphan diseases"). Prior to coming to Harvard, Szlezák was a clinical researcher at the Institute of Tropical Medicine in Tuebingen, Germany, and at the Albert Schweitzer Hospital in Gabon, where her work focused on malaria and schistosomiasis. Szlezák holds a medical degree from [Humboldt University](#) in Berlin, and a Dr. med. degree from the [University of Tuebingen](#), Germany. She graduated from the [Master in Public Administration Program](#) at Harvard's [Kennedy School of Government](#).

Juan Carlos Vargas-Moreno is a Doctoral Research Fellow at [Harvard's Center for International Development](#) and a doctoral candidate at Harvard's [Graduate School of Design](#). He specializes in environmental planning with an emphasis on rapidly changing regions of developing countries. His research focuses on planning and analysis of spatially-explicit alternative futures scenarios for development and conservation by using computer modeling and principles of regional landscape planning to forecast land use and natural resources utilization. His doctoral research explores new approaches for bottom-up, community-based, scenario-driven planning as a mechanism to influence public policy and ensure sustainable livelihoods for communities in regions undergoing rapid conversion from rural to urban conditions. He has been a researcher for the Ministry of Environment and the National Park System of Costa Rica, the AVINA Foundation, and the Fundación Mexicana para la Educación Ambiental (FUNDEA). He is a recipient of Research Grants from the Ministry of Science and Technology of Costa Rica (2005) and the Harvard Design School (2004). He holds degrees in Architecture and Urban Design from University of Costa Rica and a master degree in Landscape Planning and Ecology from Harvard Design School.

Gloria Visconti is a Research Fellow at Harvard's [Center for International Development](#) and Associate in the [Energy Technology Innovation Project](#) at Harvard's [Belfer Center for Science and International Affairs](#). She is a doctoral student at the Bologna University in Italy. Her research is on how European countries and the EU are thinking about biofuels, including related policy and trade issues. She was Chief of Staff for the Director General of the [Italian Ministry for the Environment, Land and Sea](#) after working as a Policy Advisor for the Ministry. She has been engaged in international negotiations relating to the [Johannesburg Summit](#), Preparation of [G8 Summits](#), and the [UN Commission on Sustainable Development](#) as well as bilateral cooperation agreements, including those of Italy-US on climate change research and new technologies, and Italy-Iraq on the restoration of the Marshlands. Prior to working for the Ministry she worked at the [European Commission](#) in Brussels on project evaluation. Visconti spent two years working at the Italian National Agency for the Environment and Energy (ENEA) focusing on air quality legislation in the European Member States. She has a degree in

Political Science from the [University of Rome La Sapienza](#) and wrote her thesis on sustainable agriculture and European legislation. She received her Masters in Environmental Management and Control from the [Sant' Anna School of Advanced Studies of Pisa](#).

Juergen Weichselgartner is a Post-doctoral Research Fellow at Harvard's [Center for International Development](#). His current research on social vulnerability to natural hazards is integrated in the "Vulnerability and Resilience in Practice" project ([VARIP](#)), led by Roger Kasperson at [Clark University](#). As part of the larger project "Sustainability Science and Technology," his work focuses on gaps and bridges in the science-practice interface in the area of coupled human-environment systems and the roles of vulnerability, resilience and adaptive capacity. Weichselgartner studied geography, political science, and ethnology in [Heidelberg](#), [Malta](#), [Santander](#) and [Bonn](#) (MS 1997) and completed his Ph.D. research (2001) at Bonn University with a system-theoretical analysis of the social discussion of natural risks. He has worked at Tokyo University ([NENV](#)), the International Institute for Applied Systems Analysis ([IIASA](#)), the University of Bonn ([GERG](#)), and the University of Cantabria ([CITIMAC](#)). He conducted research on risk perception, disaster management, social vulnerability, and systems theory in various European and Asian countries and published several articles, book chapters, and books, most recently *Der unruhige Planet: Der Mensch und die Naturgewalten* ([WBG](#)). Weichselgartner is a recipient of the PhD Prize of the Franzke'sche Foundation Berlin, a Feodor Lynen Fellowship from the Alexander von Humboldt Foundation ([AvH](#)), two research fellowships from the Japan Society for the Promotion of Science ([JSPS](#)), and an ERASMUS and two Marie Curie Fellowships from the European Commission.