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## PARTICIPANT BIOGRAPHIES

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**Adedipe, Nurudeen O.** - Nurudeen O. Adedipe obtained his PhD in Environmental Plant Physiology in 1969 from the University of British Columbia, Vancouver, Canada. He has served as a consultant to UNEP, UNESCO, FAO, UNICEF, IDRC, USAID, and the World Bank, and is currently the coordinator for the Managing Societal and Natural Resources Cluster of SCOPE. He is also the coordinating lead author of the waste management processing and detoxification chapter in the Responses Working Group of the Millennium Ecosystem Assessment.

**Alcorn, Janice** - Janis Bristol Alcorn received her PhD from the University of Texas at Austin in 1982. After teaching at Tulane University, she served as an AAAS Diplomacy Fellow in the United States Agency for International Development (USAID) from 1988 to 1990. From 1991 to 2001, she was Director for the Asia Program and the Global Peoples, Forests and Reefs Program of the Biodiversity Support Program at WWF. She was a Fellow of WRI's Institutions and Governance Program in 2002–2003. She has carried out research and applied fieldwork in Mexico, Peru, Bolivia, Panama, Namibia, Tanzania, India, Nepal, Bangladesh, Thailand, Indonesia, Philippines, Papua New Guinea, and North America. She is now managing The Garfield Foundation's biodiversity program with indigenous peoples in the Gran Chaco and the Upper Amazon and leading the Field Museum's conservation work in the biodiverse region of Pando, Bolivia, with municipal governments, communities, NGOs, and the University of the Amazon of Pando.

**Almstedt, Malin** - Malin Almstedt is a human geographer and researcher/research coordinator at the Swedish Biodiversity Center. Malin presently works within the research programme, the Conservation Chain, concerning issues on both natural and social aspects of conservation work in Sweden. She also works with issues concerning physical planning and green space in cities and issues concerning cultural diversity and biological diversity. Malin has earlier worked with issues related to physical planning, outdoor recreation, and tourism.

**Arbon, Veronica May** - Veronica Arbon is from the Arabunna people of the central deserts of South Australia and also has links to the Lower Southern

Arrennte people. She was born in Alice Springs and grew up at Urapunga in the Roper River region of Australia's Northern Territory. She is currently the Head of the Batchelor Institute of Indigenous Tertiary Education, Northern Territory. She is interested through her studies, research, and work in Aboriginal and Torres Strait Islander education, health, and management. In recent years, this interest has also focused on issues of rights and quality in education through systems, processes, and practices that do not require an abandonment of the value of difference. She is particularly interested in inter-relationships and exchange in these areas as they impact on adult education in remote Australia. Ms Arbon holds an Ass. Diploma in Community Development, a BA, a MEd, a Graduate Certificate in Management, and is presently enrolled in a PhD program.

**Argumedo, Alejandro** – A Quechua agronomist from Peru, Alejandro Argumedo has been actively involved in indigenous initiatives striving for the recognition of indigenous peoples' rights in the United Nations and international environmental, development and human rights fora, including the CBD, FAO, CSD, FAO, WTO, WIPO, and UNWGIP. Alejandro is currently Director of the Quechua-Aymara Association for Sustainable Livelihoods (ANDES) based in Cusco, Peru where he works to develop alternative models for the protection of indigenous knowledge and associated genetic resources. He is the founder of the Indigenous Peoples Biodiversity Network and a member of the World Commission on Protected Areas. He serves as vice-chair of the Indigenous Affairs for IUCN's Commission on Environment, Economics and Social Policy [CEESP] and as a member of the World Commission on Protected Areas and was formerly Executive Director of Cultural Survival Canada and Coordinator of the Indigenous Knowledge Programme.

**Augustinus, Thomas** - Thomas Augustinus is a Natural Resource Planner, since 2002, for the Mekong River Commission (MRC) Fisheries Program under the Management of River and Reservoir Fisheries (MRRF) component. He works mainly with the planning and implementation of adaptive/co-management of reservoirs in Lao PDR, Cambodia, and Thailand. He holds a degree from the

University of Copenhagen, Denmark, specialising in development studies and participatory natural resource management (MSc, Human Geography and Natural Resource Management, 2001). He has previously been working for CARE-International in Uganda on protected area management.

**Balasubramanian, A.V.** - A.V. Balasubramanian had his basic training in biochemistry and biophysics. For the past twenty years he has been involved in work relating to revitalisation of traditional Indian knowledge systems. Areas of his interest have been traditional healthcare systems and agriculture. Currently, he is Director of the Centre for Indian Knowledge Systems, based in Chennai, India. Related publications: Knowledge systems in India in: Selin H. *Encyclopaedia of the History of Science, Technology and Medicine in Non-western Cultures*. Kluwer, Dordrecht 1997; *Local health traditions. An Introduction*. Lok Swasthya Parampara Samvardhan Samithi. Madras. 1989; Knowledge and belief systems in the Indian subcontinent. In: *Ancient roots, New shoots*. 2003

**Barkin, David** - David Barkin received his doctorate in economics at Yale University and the Mexican National Prize in Political Economy. A Mexican citizen, he is a member to the Mexican Academy of Sciences and the National Research Council. He presently teaches on the world economy, rural development, and sustainability. He publishes extensively on the implementation of strategies for peasant and indigenous communities searching for alternatives to the prevailing patterns of globalization; he collaborates with local groups involved in adapting production systems and inherited knowledge to create products that allow them increasing measures of control over their ecosystems and socio-political organizations.

**Bennett, Elena** - Elena Bennett is a postdoctoral researcher at the Center for Limnology of the University of Wisconsin. Her research interests include understanding the human impact on biogeochemical cycling and managing provision of ecosystem services, especially addressing trade-offs such as those between agricultural production and water quality. She is part of the technical support team for the Scenarios Working Group of the Millennium Ecosystem Assessment.

**Berkes, Fikret** - Dr. Fikret Berkes is Professor and Canada Research Chair in Community-Based Resource Management at the University of

Manitoba, Winnipeg, Canada. He is a member of the Board of Science of the Resilience Alliance, and a former President of the International Association for the Study of Common Property (IASCP). He works at the boundaries of social-ecological systems, on common-property theory, co-management, traditional ecological knowledge, and resilience. His publications include the books, *Sacred Ecology* (Taylor & Francis, 1999), *Managing Small-Scale Fisheries* (with Mahon, McConney, Pollnac and Pomeroy, IDRC, 2001), and *Navigating Social and Ecological Systems* (co-edited with Colding and Folke, Cambridge University Press, 2003).

**Biggs, David** - David Biggs is a PhD candidate completing his historical and geographical research of environmental change in the Mekong Delta. David recently returned from field and archival research: a combined study of engineering texts, historic soil and plant data, interviews with elder farmers, and surveys with botanists to understand how land and water use patterns have changed in the 20th century with respect to the dramatic social events of the region. Besides writing, David is engaged in the development of a proposed Mekong valley assessment project with ocean scientists at the University of Washington, where he plans to use his knowledge of the Mekong Delta and databases/GIS to develop a prototype "Footprints" database later this year. David also teaches courses at the university on environmental history, Vietnam, and Southeast Asia.

**Biggs, R. (Oonsie)** - Oonsie Biggs is completing a Masters degree, focusing on the choice of scale in assessing ecosystem services. She is involved in the regional scale assessment of the Southern African Millennium Ecosystem Assessment (SAfMA). Her previous work involved a study of historical land cover changes in South Africa, as well as studies of fire and elephant impact on vegetation in the Kruger National Park.

**Blanco, Hernán** - Hernán Blanco holds a civil and hydraulic engineering degree with a Masters in Environment and Development (University of Cambridge, UK). He has 10 years of experience in applied research, consultancy, and teaching in subjects related to environmental impact assessment, public participation, and trade and the environment. He has additionally worked as a consultant to the UN-ECLAC on local development in Latin American mining towns. As co-coordinator of the Mining, Minerals, and Sustainable Development

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project in South America, he was in charge of a participatory process in Chile that directly involved more than 300 people, including activities with leaders of the Atacameños communities.

**Bland, William** - William Bland is Associate Professor of Soil Science and Extension Specialist, Agricultural Climatology at the University of Wisconsin-Madison. In the past he worked in a project (with funds from NASA) to improve use of satellite data and Internet communications in agricultural management. More recent initiatives involve exploring ways to help the broad public and decision-makers better understand agricultural systems. The larger of two projects in this area is an “integrated assessment model” of the Central Sands of Wisconsin, in which users will be able to explore linkages among groundwater contamination, vegetable production, and the economy. The other project is titled “CELLO” for Communities, Ecosystems, and Large Livestock Operations, which will help to develop an assessment tool to assist communities as they debate the siting of large-scale livestock rearing facilities.

**Bodin, Örjan** - Örjan Bodin is a graduate student at the Department of Systems Ecology, University of Stockholm. His research interests are studying sustainable natural resource management through the use of models and simulations to gain insight into underlying mechanisms in ecological and socio-economical systems and their interactions. Örjan has a master’s degree in Physics from Uppsala University in Sweden and extensive experience from the telecom and computer industries.

**Bogachev, Vladimir Petrovich** - Vladimir Petrovich Bogachev is Project Manager at the Regional Environmental Centre for Central Asia (office located in the Republic of Kazakhstan). Previously, he was National Coordinator of Regional Sustainable Development Cooperation. He has also held the positions of Senior Lecturer of Geography of the Kazakh State National University (KSNU) and Deputy Head of the National Environmental Action Plan for Sustainable Development of the Republic of Kazakhstan Center.

**Bohensky, Erin** - Erin Bohensky is involved with the Gariiep basin component of the Southern African Millennium Ecosystem Assessment (SAfMA). She is

currently completing a PhD in the Centre for Environmental Studies at the University of Pretoria that investigates complex systems and resilience theory in the context of water management. Previously, as a research associate at the University of California, Berkeley, she worked on studies of savanna heterogeneity in the Kruger National Park, South Africa. She has a master’s degree in landscape ecology and a bachelor’s degree in environmental and media studies.

**Boonduang, Baramee** - Baramee Boonduang is a Karen farmer and a leader from the Bapong village in Maehongson Province, Northern Thailand.

**Boyd, Emily** - Emily Boyd is a Post Doctoral Fellow at the Tyndall Centre for Climate Research, Norwich. She has worked on carbon sinks projects and institutions and governance issues in Bolivia and Brazil as part of her PhD. She is part of a research team at the Tyndall Centre developing SD criteria for the Clean Development Mechanism (CDM) and forestry projects. She also works as a team leader, writer, and editor for the Earth Negotiations Bulletin.

**Braun Wheatley, Ann** - An ecologist by training, Ann Braun has worked in basic and applied agricultural and environmental research and also as a developer of participatory research methods. After two decades with the CGIAR in Asia and Latin America, Ann now lives in New Zealand’s South Island and works as an independent consultant. Her current focus is on creation and support of learning communities to promote social, environmental, and economic sustainability. Her interests include mentoring in participatory and user-sensitive approaches to research and development, systematisation of learning processes, distillation of lessons learned, and the development of resources to promote ecological literacy.

**Brosius, J. Peter** - J. Peter Brosius is Associate Professor, Department of Anthropology, University of Georgia. Brosius has taught at UGA since 1992. He is past President of the Anthropology and Environment Section of the American Anthropological Association, serves as an Associate Editor of the journal *Human Ecology*, is on the editorial board of the *American Anthropologist*. He is also a member of the IUCN Commission on Economic, Environmental and Social Policy

(CEESP) Co-Management Working Group and the World Commission on Protected Areas/CEESP Theme on Indigenous and Local Communities, Equity and Protected Areas (TILCEPA). Brosius previously conducted research on the historical ecology of deforestation on Mt. Pinatubo, Philippines, and on international environmental politics in Sarawak, East Malaysia. In recent years, Brosius' research has focused mostly on conservation, and on the effort to foster productive links between conservation biology and the social sciences. He is a founding member of the Society for Conservation Biology Social Science Working Group. Brosius has published extensively in journals such as *American Anthropologist*, *Current Anthropology*, *Ambio*, *Conservation Biology*, *Society and Natural Resources*, *Comparative Studies in Society and History*, *Identities*, and *Human Ecology*. He is currently completing a book entitled *Arresting Images: The Sarawak Rainforest Campaign and Transnational Environmental Politics*.

**Burrows, Neil** - Dr. Neil Burrows is the Director of Science in the Department of Conservation and Land Management, Western Australia. He has 25 years experience working as a fire scientist investigating fire behaviour and impacts in a range of natural ecosystems including eucalypt forests, woodlands, and hummock grasslands. This has included working with Aboriginal people in the Western Desert to understand their use of fire so that appropriate fire management regimes can be devised to conserve biodiversity and to meet the cultural needs of Aboriginal communities.

**Burt, Jane Caroline** - There are moments when the knowledge of aliveness is cellular. It is as instinctive as the movement of trees in a wind. And yet it seems that this knowing is so easily forgotten or hidden. Jane Caroline Burt sees most of her work as a process of re-membling, re-searching, and re-creating, with others, this knowing. She has a BA (hons) degree in Psychology and a MEd in Environmental Education. She is presently working towards a PhD. Jane has worked in many contexts but mostly within the context of participatory water resource management. Her focus is on using creative approaches (such as theatre for transformation, image work, PLA) to encourage the awareness, skills and knowledge needed to enable people to meaningfully participate in directing the use and care of natural

resources. More broadly, her research interests explore the narratives (both apparent and hidden) of current grand theories such as participation and democracy, particularly in relation to power and knowledge, and how these are played out within the arena of water resource management.

**Byström, Marie** - Marie Byström is a biologist and programme officer at the Swedish International Biodiversity Programme (SwedBio), Swedish Biodiversity Centre. Her work focuses on integration of biodiversity aspects into Swedish international development cooperation and on increasing knowledge on the importance of biodiversity for local livelihoods in developing countries. Marie has worked for the past 20 years with issues related to biodiversity, environmental impact assessment, and international development cooperation.

**Capistrano, Doris** - Formerly the Ford Foundation Deputy Representative for India, Nepal and Sri Lanka, Doris Capistrano has over 20 years professional experience in teaching, research, development, and grant-making. During that period she has worked on a range of forest and natural resources issues, from village through to national and global levels. As an active member of the Technical Panel of the Millennium Ecosystem Assessment, Doris has been closely involved in assessing the relationships between ecosystem change and human well-being. From the Philippines, Doris holds a PhD in Food and Resource Economics from the University of Florida.

**Camac Ramirez, Esther** - Esther Camac is Executive Director of Asociación Ixacavaa De Desarrollo e Información Indígena in Costa Rica

**Cardinal, Nathan** - Nathan Cardinal is a graduate student at the dynamic School for Resources and Environmental Studies at Dalhousie University in eastern Canada. He is working with the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) to collect wolverine ATK in northern Canada and analyze the associated challenges and implications, both for species and aboriginals, of using ATK in species conservation.

**Chauhan, Malavika** - Following a Doctorate in Aquatic Ecology, Dr. Malavika Chauhan has worked extensively with non-governmental organizations in

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India, specifically in the area of wetland resource management. Her areas of interest include those related specifically to aquatic and wetland resource and biodiversity management, including protected area management, gender issues, and valuation studies. She is currently a Scientist with the School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.

**Corral-Quintana, Serafin** - Serafin Corral-Quintana has a PhD in Economics by La Laguna University in Tenerife, Spain, where he is lecturer. His research focuses in the development of a procedure for guaranteeing a quality control of scientific information used in situations of Post-Normal Science (i.e., when there are controversies in the application of the precautionary principle). He developed, at the European Commission - Joint Research Centre (EC-JRC) at Ispra, a new methodology called NUSAP, which has been used in several research projects.

**Cropper, Angela** - Angela Cropper is co-founder and at present President of The Cropper Foundation, a not-for-profit organization contributing among other things to public policy for sustainable development. She co-chairs the Assessment Panel of the Millennium Ecosystem Assessment; is chair-elect of the Board of Trustees of CIFOR (Centre for International Forestry Research); is a member of the Board of the Trinidad and Tobago Environmental Management Authority and Trustee of its Environment Fund.

**Cundill, Georgina** - Georgina Cundill is a postgraduate student in the Environmental Science Department, Rhodes University, South Africa. Her fields of research include community-based natural resource management, participatory processes, and the role of local knowledge in integrated natural resource management. Georgina is also a lead author in the Bridging Epistemologies and Community Assessment chapters of the Millennium Ecosystem Assessment.

**Davies, Sarah Jocelyn** - Dr. Jocelyn Davies is a geographer based near Adelaide in southern Australia. She is a co-leader of the Desert Knowledge Cooperative Research Centre's research theme on governance management and leadership for sustainable futures, and holds an adjunct appointment

in the University of Adelaide School of Earth and Environmental Sciences. Her research and consultancy activities focus on institutional issues for indigenous people in environmental management, including use of property planning in negotiations about co-existing indigenous and non-indigenous property rights in Australian rangelands, and Aboriginal interests relevant to the commercial harvest of kangaroos. She has a particular interest in education and capacity-building for scientists to form effective partnerships with indigenous groups, and in institutional design for effective participation by indigenous people in natural resource management decision-making.

**Davis, Chris** - Chris Davis is the co-founder and executive director of CommEn Space, a Seattle, Washington based non-profit organization that works with community and environmental organizations to carry out geographic analyses and to use geographic data and maps in their efforts. CommEn Space has carried out analyses on a wide range of topics, including endangered species recovery, conservation planning for shorebirds and waterfowl, measuring sprawl and deforestation in the United States and Canadian Cascades, and acquisition strategies for community land trusts. Prior to launching CommEn Space in 1998, Chris was Vice President of the Foundation for Russian-American Economic Cooperation and worked on community economic development initiatives between the Pacific Northwest and the Russian Far East. He holds a Masters Degree in Geography from the University of Washington.

**Davis, Michael** - Michael Davis is an independent consultant, writer, and historian based in Canberra, Australia. He is a specialist in policy analysis and research on Australian indigenous cultural and intellectual property rights and heritage. Michael has extensive experience working with indigenous organizations in Australia. He has written and published on this subject, and completed a number of consultancy projects. Michael has also participated in international developments on biodiversity-related traditional knowledge. He is a member of the Australian Institute of Aboriginal and Torres Strait Islander Studies.

**Del Amo-Rodríguez, Silvia** - Dr. Silvia del Amo-Rodríguez, holds a PhD from Universidad Nacional

Autónoma de México in Biology. She has been working in the field of natural agroforestry and conservation of tropical resources for more than 25 years. She has chaired PROAFT, an NGO, for 12 years working with local populations of South Mexico. Currently, she works as full professor at the Universidad Veracruzana in participatory natural resource management.

**Delgado Burgoa, Freddy** - Dr. Freddy Delgado is an agronomist and social scientist. He is Director of Agruco, the center for agro-ecology at the Universidad Mayor de San Simón in Cochabamba, Bolivia. He is coordinator for MAELA, an agro-ecological movement for Andean countries. Publications include: *La agro-ecología en las estrategias de desarrollo rural*. Centro Bartolome de las Casas. Cusco, Peru, 1992; *Estrategia de autodesarrollo y gestion sostenible del territorio en ecosistemas de montania*. Edicion plural/Agruco. La Paz, Bolivia. 2002; *Hacia un sistema holisitico de informacion y conocimientos agraria*. Los casos de Agruco en Bolivia y de ISEC en Espania. Agruco, 1997; *La investigacion participativa y la comunicacio intercultural revalorizadora: Bases para el desarrollo rural autosostenible*. Agruco, Cochabamba, 1997.

**DONG, Suocheng** - Dong Suocheng, a leading professor and supervisor of doctorate candidates at the Knowledge Innovation Base of the Institute of Geographical Sciences and Natural Resources Research under the Chinese Academy of Sciences, has made great contributions in his research domain. Currently, he is engaged in research in eco-economic strategies for western development, interactive mechanisms between urbanization and their ecological environments in west China's cities, principle factors of China's economic growth, and environmental pollution. Dong has chaired and accomplished more than 30 key research projects at both national and international levels, including Southeast and South China Regional Planning, the Report on the Construction of Natural Conservation Zone of Three Rivers' Headwaters Region in Qinghai-Tibet Plateau, the Eco-Economic Development Strategic Patterns in Western China, a Sub-global Project of the Millennium Ecosystem Assessment, and the Millennium Ecosystem Assessment of Western China.

**Dovers, Stephen** - Dr. Dovers is a leading Australian researcher in the policy and institutional aspects of sustainability, science-policy linkages, and environmental history. Recent edited and co-edited volumes include *Environmental history and policy: still settling Australia* (Oxford UP, 2000), *Ecology, uncertainty and policy: managing ecosystems for sustainability* (Prentice-Hall, 2001), *Strategic environmental assessment in Australasia* (Federation Press, 2002), *South Africa's environmental history: cases and comparisons* (Ohio UP, 2002), *Managing Australia's environment* (Federation Press, forthcoming 2003) and *New dimensions in ecological economics: integrated approaches to people and nature* (Edward Elgar, forthcoming 2003).

**du Plessis, Hester** - Hester du Plessis is an Art Historian and Fine Artist by qualification. She was an Art Lecturer in Theory of Art, Design and Applied Design as well as Drawing during the past 15 years. She was an active anti-apartheid art critic and journalist during the 1980s in South Africa. She initiated and directed an African Art R&D Centre at the Tswane University of Technology. She is currently enrolling for a PhD and is a Senior Research Fellow at the Technikon Witwatersrand. Hester. She and her co-author, Guahar Raza, have been working and publishing together in the fields of IKS and PAUS since 2000.

**Duojie, Tashi** - Tashi Duojie (Haxi Zhaduo) is from Snowland Green River Environmental Association, the first NGO of Tibetan nomads in Qinghai, Zhiduo County.

**Eamer, Joan** - Joan Eamer is Head of Ecosystem Health for the Northern Conservation Division of Environment Canada, Yukon. She has been program co-ordinator for the Arctic Borderlands Ecological Knowledge Co-op ([www.taiga.net/coop](http://www.taiga.net/coop)) since its inception in 1994, and leads the Ecological Monitoring and Assessment Network for Northern Canada (EMAN-North). She holds a Masters Degree in Zoology (UBC) and has worked as an adult education instructor in northern Canadian aboriginal communities, and as an environmental assessment co-ordinator and biologist in British Columbia and the Yukon. She is Past President of the Arctic Chapter of the American Association for the Advancement of Science (AAAS) and Past President of the Yukon Science Institute.

**Easterling III, William E.** - Dr. William E. Easterling is the director of the newly created Penn State Institutes of the Environment and professor of geography and earth systems science and maintains a courtesy appointment in agronomy. He received his PhD in geography from the University of North Carolina at Chapel Hill and has held posts at the Illinois State Water Survey, Resources for the Future, and the University of Nebraska's Department of Agricultural Meteorology. He was acting director of the U.S. Department of Energy's National Institute for Global Environmental Change (NIGEC), having previously served as director of NIGEC's Great Plains Regional Center. His research focuses on agricultural production, food security, and global environmental change. He has published in numerous national and international journals on the potential impacts of climate change on agricultural production systems, particularly on issues of scale in simulation modeling.

**Ehrmann, John** - Dr. John Ehrmann is a founder and Senior Partner of the Meridian Institute. Dr. Ehrmann has pioneered the use of collaborative decision-making processes for over two decades, applying innovative problem solving approaches to a wide range of complex and controversial policy issues and site-specific disputes. He has led projects at the international, national, and local levels that have involved the intersection of science and policy. His work has focused on policy development and implementation as well as organizational management and strategic planning for a wide diversity of organizations including companies; government agencies; and local, national, and international NGOs.

**Elmqvist, Thomas** - Thomas Elmqvist is a Professor in Natural Resource Management at Stockholm University, Sweden. He coordinates an interdisciplinary research program in southern Madagascar, which includes archaeology, ecology, and studies of natural resource management.

**Emadi, Mohammad H.** - Mohammad H. Emadi has PhD in Systems Agriculture and Rural Development from the University of Western Sydney, Australia. He is Vice Minister of Agriculture, a university professor, and Research Director of the Rural Research Center, (RRC). He has written six books and 23 articles on indigenous knowledge and development.

**Espaldon, Vicky** - Dr. Espaldon is a human/cultural geographer, and currently Associate Professor at the School of Environmental Science and Management. Her research works are focused on community dynamics and participation in natural resources management, and in developing and testing methodologies for enhancing local community and public participation in environmental and natural resources planning and management. She is currently involved in the Sub-global Millenium Ecosystem Assessment for the Philippines as a social scientist.

**Fabricius, Christo** - Christo Fabricius is Professor of Environmental Science at Rhodes University in Grahamstown, South Africa. His research focuses on the relationship between rural communities and biodiversity resources. He is a coordinating lead author of the community assessment chapter of the Millennium Ecosystem Assessment Sub-global Synthesis.

**Filer, Colin** - Colin Filer is a social anthropologist who has taught at the Universities of Glasgow and Papua New Guinea. He was formerly Head of the Social and Environmental Studies Division of the PNG National Research Institute and is now Convenor of the Resource Management in Asia-Pacific Program at the Australian National University's Research School of Pacific and Asian Studies. His major research interests are in the social context and impact of projects and policies in the mining, petroleum, forestry, and conservation sectors in Papua New Guinea.

**Foale, Simon** - Simon Foale is a fishery biologist and tropical marine ecologist with 10 years experience working in Island Melanesia, primarily on indigenous ecological knowledge and management of artisanal and subsistence fisheries. He also has experience working on an Integrated Conservation and Development Project in the Solomon Islands, as well as an ongoing collaboration on the Independent Social Impact Audit for a large mining development on Lihir Island in Papua New Guinea. He is interested in the political and social dimensions of resource management in Melanesia and the anthropology of environmentalism.

**Folke, Carl** - Carl Folke is based at Stockholm University, Sweden, where he is the Managing Director of the transdisciplinary Centre for Research

on Natural Resources and the Environment (CNM) and also Professor and Head of the Natural Resource Management Division at the Department of Systems Ecology, a position he has held since 1997. He is a member of the Scientific Advisory Board of the National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, California, and scientific advisor to the Millennium Ecosystem Assessment.

**Foresman, Timothy** - Dr. Timothy Foresman has been a lead scientist at UNEP and NASA in the design and implementation of digital earth technology and systems architecture to interconnect and facilitate information interoperability for long-term ecological assessments.

**FU, Yongshou** - Fu Yongshou, PhD in anthropology, is deputy director of the Department of Art and Culture at Yunnan Art Institute. He is primarily engaged in the disciplinary research on anthropology, landscape ecology, ethno-ecology, and natural resource management. He is also involved in various development projects in the mountain area of Yunnan Province, Southwest China.

**Fukui, Hiromichi** - Dr. Hiromichi Fukui directs Keio University's initiatives for Digital Japan and Digital Tibet and had been the co-director of the LEAD program for integrating geo-informatics into local sustainability and ecological assessments.

**Gauntlett, Sandy** - Sandy Gauntlett lectures at UNITEC in Maori Environmental Resource Management and has just finished writing the International Perspectives section of the Bachelors degree in Kaitiakitanga (Maori Environmental Resource Management) for Te Wananga O Aotearoa, the Maori University of New Zealand.

**Giampietro, Mario** - Mario Giampietro is a Senior Researcher at a governmental research institute in Italy (INRAN). He has been working in the field of ecological economics since the International Society for Ecological Economics was established in 1987 and is an elected member of the Management Committee of the European Society for Ecological Economics (ESEE) since its establishment in 1996. He was a visiting scholar (1987–1989) and visiting professor (1993–1995) at Cornell University; a visiting fellow at Wageningen University in 1997;

and a visiting professor at the PhD Program of Ecological Economics at the Universitat Autònoma Barcelona, Spain (1999–2000). He is one of the organizers of the Biennial International Workshop “Advances in Energy Studies” held in Portovenere, Italy, since 1996. He is Associate Editor of *Population and Environment* (Kluwer) and member of the editorial board of *Agriculture, Ecosystems & Environment* (Elsevier), *Environment, Development and Sustainability* (Kluwer) and the *International Journal of Water* (Inderscience). He is finishing a book for CRC Press (with Bill Bland and David Pimentel as associated editors) entitled *Integrated Assessment of Agroecosystems: a Complex Systems Approach*.

**Gordon, Line** - Line Gordon is a graduate student in Natural Resources Management at the Department of Systems Ecology, Stockholm University. Her research focus involves human alterations of land cover affecting freshwater availability at different scales, and she has published papers with regional, continental and global perspectives. She is currently involved in the Swedish Sub-global Millennium Ecosystem Assessment in the Kristianstad Water Kingdom. She will finish her PhD in 2003.

**Grünbühel, Clemens M.** - Clemens M. Grünbühel graduated in Ethnology at the University of Vienna. He specializes in ecological anthropology and the anthropology of Southeast Asia, in particular Laos and Thailand. He is a researcher and lecturer at the IFF, Department of Social Ecology in Vienna, Austria, since 1998. Clemens contributes to interdisciplinary research projects in the fields of socio-ecological indicators, sustainable development, and transition at the local level. He coordinates the EU research project “Southeast Asia in Transition” (<http://www.seatrans.net>). He also teaches courses in Ecological Anthropology and Transition Studies.

**GUO, Huadong** - GUO Huadong has been working on radar remote sensing since 1981 and is now working on Digital Earth research. He is currently a Professor at the Institute of Remote Sensing Applications of the Chinese Academy of Sciences and also holds the position of Deputy Secretary-General of the Chinese Academy of Sciences. He is the Secretary General of International Steering Committee on International Symposium of Digital Earth (ISDE).

**Hahn, Thomas** - Thomas Hahn has a doctoral degree in agronomy at the Swedish University of Agricultural Sciences in Uppsala. His doctoral thesis is called "Property rights, ethics, and conflict resolution: Foundations of the Sami economy in Sweden." Since 2001, he has worked as a researcher and project leader at the Centre for Research on Natural Resources and the Environment (CNM), Stockholm University.

**Hamandawana, Hamisai** - Hamisai Hamandawana (BA; Dip-Ed; Dip & MSc-Development Planning; MSc-Env-Sc) is a final year Environmental Science PhD student at the University of Botswana with research interests in the application of remote sensing and GIS in land-use/land-cover change analysis.

**Hartmann, Ingrid** - Ingrid Hartmann has a Master of Science degree in International Agricultural Development from the Technical University of Berlin and a PhD in Soil Science from the University of Hohenheim, Germany. Her areas of interest are ecological assessment and gender research. For the past five years, she has researched deforestation problems in the South Western forests of Ethiopia.

**Haverkort, Bertus** - Bertus Haverkort is an agronomist and social scientist. He has 30 years of experience in studying indigenous knowledge and participatory rural development. He did field work in the Netherlands, Ghana, Colombia, India, Thailand, Peru, and several countries in East and Southern Africa. He has been manager of ILEIA and is presently international coordinator of the Compas programme: the international programme on endogenous development. He is (co-)author of six books, such as: *Ancient roots—New Shoots: Experiences of Endogenous Development*. Zed Books, 2003; *Food for Thought*. Zed Books, 1998; *Farming for the Future; Introduction to Low External Input and Sustainable Agriculture*. Mac Millan, 1994; *Joining Farmers' Experiments*, IT publishers, 1992.

**Hay, Geoffrey J.** - Geoffrey Hay received a BSc (Hon's) in Geography (1991) from the University of Calgary (Alberta), a MSc in Remote Sensing (1993) from the University of Victoria (British Columbia), and a Ph.D. in Geographic Information Science and Landscape Ecology (2002) from the University of Montreal (Québec). His Ph.D thesis is titled

'Multiscale Object Specific Analysis (MOST): An Integrated Hierarchical Approach for Landscape Ecology'. He is currently an NSERC (Natural Sciences and Engineering Research Council) Post-doctoral Fellow in the Department of Geography, at the University of Montreal, Canada. His areas of specialization include Multiscale Modeling, GIScience, Landscape Ecology, and Remote Sensing.

**HE, Yuanqing** - Dr. He Yuanqing is a professor and PhD Supervisor with the Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI) of the Chinese Academy of Sciences. His research interests focus on behaviors of the cryosphere, glaciology, global change, and climatic and environmental variations, with about 20 years research experience. He has published about 40 papers in international and national academic journals, including 10 SCI papers, and co-edited a monograph.

**Hiemstra, Wim** - Wim Hiemstra (1957), trained in bio-dynamic farming and worked as staff member and editor with the Information Centre for Low-External-Input and Sustainable Agriculture ILEIA from 1984 to 1996. From 1996, he has been the international coordinator with Compas. He lives on a farm in Leusden, Netherlands.

**Tim Hopwood** - Tim Hopwood has been a photographer for 15 years. For much of this time, he has lived and worked in the Eastern Cape. Four years were spent in Cape Town. For three years he was a lecturer at the Port Elizabeth Technikon, the oldest art school in South Africa, where he initiated their Fine Art Photography course. He has held six solo exhibitions and has been involved in more than 30 group shows in various parts of South Africa. He has also made a documentary film on Port Elizabeth and has initiated many audio-visual shows with local musicians, where 16mm film and slides are used to create an alternative performance space for them. Much of his own personal work deals with issues of the collective unconscious of the region in which he resides.

**Ishizawa, Jorge** - Jorge Ishizawa was born in Lima, Peru in 1941. Since 1993, he has been collaborating with Proyecto Andino de Tecnologías Campesinas (PRATEC), an institution devoted to the affirmation

of the Andean culture. He is a founding member of the Peruvian National Academy of Science and Technology. Presently, he is PRATEC's Coordinator.

**Jones, Jennifer L.** - Ms. Jennifer Jones is currently a PhD candidate at the Centre for Environmental Studies, University of Pretoria, South Africa and her research interests include protected areas and local communities, transboundary conservation, political ecology in Southern Africa, and GIS and society. Jennifer is member of the IUCN Commission on Environmental, Economic and Social Policy and the IUCN Theme on Indigenous and Local Communities, Equity and Protected Areas, as well as a participating researcher in the Maputaland Conservation-Based Research and Integrated Rural Development Programme and the Appalachia-Southern Africa Research and Development Collaboratory.

**Joshi, Laxman** - Dr Laxman Joshi is an ethnologist at the World Agroforestry Centre (ICRAF) and also associated with University of Wales, Bangor. His research interests are local agroecological knowledge, farmer innovations and farmers' decision making. For the last nine years, he has been a member of the team to develop and implement a novel methodology and software for acquisition and use of local agroecological knowledge (AKT5) initially in Nepal, and more recently in Southeast Asia. He is currently based at ICRAF in Indonesia. He is from Nepal and holds a PhD in agroforestry from University of Wales in Bangor.

**Kok, Kasper** - Kasper Kok holds an MSc in tropical ecology and a PhD in land use modelling, being co-responsible for the development of the CLUE modelling framework at the University of Wageningen, Netherlands. At ICIS, a leading institute in integrated assessment, he was involved in the organisation of stakeholder scenario workshops to combat desertification in the Mediterranean region. Currently, he is employed in Wageningen as Land Use and Cover Change (LUCC) Focus 3 Science Officer, responsible for regional and global modelling.

**Kumar, Pushpam** - Pushpam Kumar, PhD, is a Reader in Environmental and Natural Resources Economics at the Institute of Economic Growth (IEG), Delhi, India. Currently, he is the Coordinator

of the Responses Working Group of the Millennium Ecosystem Assessment based at IEG. His research interests include valuation and accounting of ecosystem services, economics of soil erosion, urban ecosystems, and corporate social responsibility.

**Lasco, Rodel** – Dr. Rodel Lasco is a forestry specialist, and a Professor at the College of Forestry, University of the Philippines at Los Banos. He has been engaged in Climate Change studies. Most of his recent works are focused on carbon sequestration studies and currently serves as the Project Leader of the Sub-global Millennium Ecosystem Assessment for the Philippines.

**Laird, Sarah Adams** - Sarah Laird is a consultant working on the cultural and commercial context of biodiversity conservation. Her field research for the last eight years has primarily focused on Cameroon. Recent publications include *Biodiversity and Traditional Knowledge: Equitable Partnerships in Practice* and *The Commercial Use of Biodiversity: Access to Genetic Resources and Benefit-Sharing*. She holds an MSc in Forestry from Oxford University.

**Lebel, Louis** - Louis Lebel is the Scientific Coordinator for Southeast Asia region of the International Global Environmental Change Programme, START. He also heads the Unit for Social and Environmental Research (USER) within the Faculty of Social Sciences at Chiang Mai University, Thailand. He helps coordinate and conduct original research that often focuses on the linkages between social and ecological systems.

**Li, Mai-he** - Dr. Mai-he Li grew up in China and obtained his PhD in Forest Ecology from the Vienna University of Agricultural Sciences, Austria, in 2000. He works as ecologist at the Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), where he joined the Department for Forests in 2001 after his postdoctoral fellowship at the Austrian Federal Office and Research Centre for Forests (BFW) and at the University of Basel. His research focuses on the impacts of global change at species level (plant ecophysiology) and ecosystem level (vegetation and ecosystem change), and on the treeline ecology.

**LIU, Jiyuan** - Prof. Jiyuan LIU is Director-General of Institute of Geographical Sciences and Resources Research of the Chinese Academy of Sciences

## PARTICIPANT BIOGRAPHIES

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(CAS). From the early 1980s, he has presided at and completed several key national projects, such as “Remote Sensing Investigation of Land Use in Tibet” and “Macro Investigation and Dynamic Analysis of National Resources and Environment Based on Remote Sensing”. He is presiding over several key projects on knowledge innovation at CAS now. He has developed several multiple thematic analysis models. On the basis of his research on soil resources and the ecological environment of China and Tibet, he put forward a series of important research conclusions and propositions.

**Lopez, Alvin** - Alvin Lopez has been working in the field of wetland conservation for the past seven years. He has contributed to various national and regional wetland conservation initiatives. Alvin is currently based in Cambodia as the Wetland Ecologist of the Mekong Wetlands Biodiversity Conservation and Sustainable Use Programme. Alvin has a degree in Environmental Biology and an MSc in Conservation Biology.

**LU, Zhi** - Lu Zhi is Country Director of China Program at Conservation International and professor of Conservation Biology at Peking University. She also serves as a Board member of Global Greengrant Fund in China and an adjunct professor at Yale School of Forestry and Environmental Studies. She has a broad range of experiences from long-term research on ecology, behavior, and genetics to projects on integrated conservation and development, participatory land use planning and resource management, policy analysis and lobbying, capacity building for civil society and grassroots NGOs, and regional conservation plans.

**Lundberg, Jakob** - Jakob Lundberg works on spatial ecosystem dynamics and the role of local knowledge and institutional arrangements for sustaining ecosystem services. He is working on his PhD within the Swedish Sub-global Assessment of the Millennium Ecosystem Assessment and also performs fieldwork in Madagascar on similar issues.

**Lynam, Timothy** - Tim Lynam is an ecologist/economist from the Institute for Environmental Studies in Zimbabwe, working at the local scale in Mozambique.

**MA, Erzi** - Mr. Ma Erzi (Yi) is Deputy Director of Xichang Yi Institute, Sichuan, China.

**Machaca Mendieta, Marcela** - Born in Quispillaqta, a Quechua community in Ayacucho, Peru, Marcela Machaca Mendieta graduated as agronomist at the University of San Cristóbal of Huamanga. She is co-founder of the community-based NGO, Asociacion Bartolome Aripaylla, which assists the Andean Comuneros in a process of cultural affirmation. Her work is based on the value of nurturing nature, human beings, and the spiritual world.

**Mai Trong, Thong** - Dr. Mai Trong Thong is a Doctor of Geography and Senior Researcher, Head of Department of Geo-climatology at the Institute of Geography, National Centre for Natural Science and Technology, Vietnam. He has worked as director of a number of national and international projects, been a lecturer at Hanoi National University as well as the supervisor of various doctoral theses, masters theses, and graduation papers. He has published 22 articles.

**Martin, Gary J.** - Gary Martin, the Director of The Global Diversity Foundation since its inception in 1999, has been involved in conservation and ethnobotanical work for over 20 years. In 1999, he was selected for a three-year term as Council Member of the Society for Economic Botany and became President of the Society in June 2002. In 1999, he was named Research Fellow and Lecturer in the Anthropology Department at the University of Kent, where he teaches courses on the Botanical Foundations of Ethnobotany and Contemporary Issues in Ethnobiology, and advises students in the Ethnobotany MSc and Ethnobiology Mphil/PhD programs.

**Mattson, Niklas S.** - Dr. Niklas S. Mattson is the Coordinator (CTA) of Aquaculture of Indigenous Mekong Fish Species (AIMS). AIMS is a component of the Fisheries Programme of the Mekong River Commission (MRC), with activities in Cambodia, Lao PDR, Thailand and Vietnam. He holds degrees from University of Uppsala (BSc in Biology, 1984), University of Bergen (MSc in Zoology, 1986) and Stockholm University (PhD in Aquatic Ecology, 1997). He has worked at the Institute of Marine Research, Bergen, Norway (1986–1989), with FAO in Zambia and Malawi (1989–1996), and, since 1998, with MRC. His main interests are related to environmental issues and the interface between science, policy, and local knowledge.

**McClatchey, Will** - Will McClatchey is Associate Professor of Botany and Associate Director of the Lyon Arboretum of the University of Hawaii. His research has focused upon the dynamics and evolution of ethnobotanical knowledge in Western Pacific Island communities in Fiji, Marshall Islands and Solomon Islands. He is currently working on an analysis of the sustainability of botanical resources on small atolls in order to develop models of human cultures in relatively simple and limited terrestrial environments.

**McDougall, Cynthia** - Cynthia McDougall pursues positive change in the areas of social justice and environmental sustainability through a combination of social science and popular education approaches. Originally trained in political science, comparative development, and geography, she has been a part of the Criteria and Indicators for Sustainable Forest Management then the Adaptive and Collaborative Management Research Project teams at the Center for International Forestry Research (CIFOR) in Indonesia for the last five years. Her work there has been primarily focused on strategies for enhancing social learning and equity in community forest user groups in Nepal, as well as contributing to comparative work in other communities in Asia, Africa, and Latin America. She has also been involved in participatory research and participatory action research methodology development, with an emphasis on gender and diversity.

**McMaster, Alistair** - Alistair McMaster (MSc cum laude) is a lecturer at the Geography Department at Rhodes University, South Africa, and a member of the Catchment Research Group. He has been involved in the establishment and assistance of the Catchment Forum since 1997. He has also been instrumental in supporting the establishment of the Water Users Association in the Kat River Valley. His research interests are participatory GIS, interface between science and indigenous knowledge, participatory approaches, and action research. His masters study looked at the way in which GIS could not only be used as a technique for gathering localised data from villagers but also as a tool for further sharing, capacity building, and empowerment within the Catchment Forum.

**Menzies, Charles R.** - Charles Menzies is an enrolled member of the Tlingit and Haida Council of Indian Tribes of Southeast Alaska and a member of

the Tsimshian First Nation. He is currently an assistant professor of Anthropology at the University of British Columbia. His primary research interests relate to contemporary First Nations, resource allocation, fishing communities, and local ecological knowledge—including a multi-year study of racism and racial identity in the Prince Rupert Region, a collaboration with the Kitkatla First Nation on local ecological knowledge, and a new program that builds and extends his earlier work in Europe with artisanal fisherfolk ([www.anso.ubc.ca/menzies](http://www.anso.ubc.ca/menzies)).

**Metzger, Marc** - Marc Metzger, MSc, is a PhD student at the Plant Production Systems Group of Wageningen University. After graduating as biologist from Wageningen University, he started work on his PhD with Prof. Rik Leemans, working in the ATEAM project. His role in the project is to find a way of quantifying the vulnerability of society to changes in ecosystem service provision under global change. As a first step, he created a statistical environmental classification of Europe.

**Millar, David** - Dr. David Millar is a lecturer at the University of Development Studies, Tamale, Ghana, and director of the Center for Cosmivision and Indigenous Knowledge. He has published widely on indigenous knowledge and participatory technology development.

**Miller, Clark** - Clark A. Miller received his PhD in Electrical Engineering from Cornell in 1996 for radar remote sensing and numerical modeling of the Earth's upper atmosphere. As a postdoc at Harvard's John F. Kennedy School of Government from 1996–1999, he conducted research on the construction and evaluation of international scientific advisory institutions, including the IPCC, SBSTA, IRI, and the Millennium Ecosystem Assessment. He is currently assistant professor of Public Affairs and Science Studies at the University of Wisconsin-Madison and is the editor of *Changing the Atmosphere: Expert Knowledge and Environmental Governance* (with Paul Edwards, Cambridge: MIT Press, 2001).

**Morgan, M. Granger** - M. Granger Morgan is Professor and Head of the Department of Engineering and Public Policy at Carnegie Mellon University where he is also University and Lord Chair Professor in Engineering. He is also a Professor in the Department of Electrical and

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Computer Engineering and in The H. John Heinz III School of Public Policy and Management. He holds a BA from Harvard College (1963) where he concentrated in Physics, an MS in Astronomy and Space Science from Cornell (1965) and a PhD from the Department of Applied Physics and Information Sciences at the University of California at San Diego (1969). Morgan's research addresses problems in science, technology and public policy. Much of it has involved the development and demonstration of methods to characterize and treat uncertainty in quantitative policy analysis.

**Mogina, Jane** - Jane Mogina is an ethnobotanist and a science educator, lecturing at the University of Papua New Guinea. Her research areas include traditional knowledge, its distribution and maintenance within subsistence communities, and use of traditional knowledge in formal education. Her research focuses on changes in knowledge of plants used in construction, food crops and medicine, and in transitional communities. She is National Coordinator for the PNG coastal and islands ecosystems assessment: a Millennium Ecosystem Assessment study site.

**Munda, Giuseppe** - Giuseppe Munda is Associate Professor of Economics of Natural Resources at the University Autònoma of Barcelona. He got his PhD in Economics and Econometrics at the Free University of Amsterdam with Peter Neijkamp (the "guru" of Multi-Criteria Analysis). He published a book multi-criteria evaluation in a fuzzy environment and he is preparing a second one on societal processes of multi-criteria evaluation. He developed a software called NAIADE (Novel Approach to Imprecise Assessment And Decision Environment), which has been used in several projects together with information communication technology and integrated packages of models to develop procedures of participatory integrated assessment. He was one of the co-organizers of European Commission Environment and Climate Programme Advanced Study Course, "Decision tools and processes for integrate environmental assessment," held in Barcelona in September 1999.

**Musvoto, Constanca** - Dr Constanca Musvoto is the coordinator of the Southern Africa Millennium Ecosystem Assessment (SAfMA) at the Institute for Environmental Studies, University of Zimbabwe

**Nadkarni, Manoj** - Dr. Manoj Nadkarni has a background in Marine Zoology and a Doctorate in the Philosophy of Science. He has extensive experience on a range of biodiversity issues, more specifically on sustainable biological resource use, including Western and Asian traditional resource management practices. He is presently an Associate Researcher at the Ecole des Mines in Paris, where he is working on ecosystem services and wastewater treatment

**Nakashima, Douglas** - Dr. Douglas Nakashima currently heads the UNESCO cross-cutting project on "Local and Indigenous Knowledge Systems" (LINKS), which addresses the role of local knowledge holders in biodiversity management and the strengthening of knowledge transmission in local communities. He has worked in the indigenous knowledge field for over 20 years. His fieldwork focuses on the knowledge, practice, and worldviews of Canadian Inuit hunters with respect to their arctic environment. Subsequent work with the Cree First Nations of subarctic James Bay (Canada) brought indigenous knowledge directly into environmental and social impact assessment processes. Since 1996, he has been a staff member of the Natural Sciences Sector at UNESCO Headquarters in Paris, France.

**Nkayi, Luyanda** - Luyanda Nkayi is the chairman of the Kat River Valley catchment forum as well as one of the villager representatives on the Water Users Association Management Committee. He has been actively involved in the establishment of both the catchment forum and the WUA, and is a leading figure in catchment management in the Kat. He is committed to both the forum and the catchment.

**Nqweniso, Bulelwa Moliane** - Bulelwa Moliane Nqweniso grew up with both an urban and a rural background, born and bred in the Eastern Cape, Grahamstown, South Africa. A fantastic actress and a creative facilitator, Bulelwa has taught basic dance movement to grade 7 teachers, facilitated environmental awareness workshops, and voter education. Bulelwa joined Educational Drama and Theater at Rhodes University to dramatize environmental issues dealing with issues such as water and the protection of animals.

**Olsson, Per** - Per Olsson has licentiate (2000) and a masters degree (1998) in Natural Resource Management at the Department of Systems Ecology,

Stockholm University, Sweden. He is currently finishing his doctoral thesis, which will be defended in May 2003. He works within the Swedish Sub-global Millennium Ecosystem Assessment in Kristianstad, southern Sweden. His research focuses on the dynamics of social-ecological systems. He also has a position at Albaeco, an organization that spreads scientific information to a broader audience.

**Pereira, Elvira** – Elvira Pereira received the Licenciatura Degree in International Relations and Economic and Political Relations in 1997 at the Higher Institute of Social and Political Sciences, Technical University of Lisbon; a Masters Degree in Development and International Cooperation (area of research: concepts and measures of poverty, poverty reduction strategies), in 2000 at the Higher Institute of Economics and Management (ISEG), Technical University of Lisbon; and has been Assistant Teacher at Higher Institute of Social and Political Sciences, Technical University of Lisbon from 2001 to 2004.

**Petrova, Tatyana** – Tatyana Petrova graduated from the State Moscow University (Geographical Faculty) in 1973 and is currently responsible for environmental cooperation with Norway, Japan, and China in the Ministry of Natural Resource of Russian Federation. She is an expert of RAIPON (Russian Association of Indigenous People) and engaged in the Expert Team of the ECORA Project on Ecosystem Approach to Biodiversity Conservation in Russia. She has participated in courses on the Economic Assessment of Ecosystem Services given by the World Bank. Her thesis (1996) is titled: *Regional Indicators of Sustainable Development*.

**Pound, Barry** - Barry Pound started his career as an agronomist, but has steadily broadened his scope to include farming systems and sustainable livelihoods. He has worked long term on agricultural research and development projects in Tanzania, Nigeria, Dominican Republic, Yemen, and Nepal. For the last 10 years he has been with the Natural Resources Institute in the United Kingdom, from whence he has led, or contributed to, a wide range of research, development, and training initiatives in Africa, Asia, Latin America, and Europe for multi-lateral, bilateral, and non-governmental organisations. Particular interests are the application of participatory approaches and, most recently, research into the implementation of farmer-led extension approaches.

**Pritchard, Lowell** - Lowell Pritchard is the Political Economy Coordinator for the Resilience Network. He is also assistant professor in the Environmental Studies Department of Emory University.

**Queirós, Cibele** - Cibele Queirós attended the Erasmus Program in the Mediterranean Agronomic Institute of Chania, Greece (2003) and is currently pursuing a Licenciatura Degree in Biology, Faculty of Sciences, University of Lisbon with the Licenciatura Degree thesis topic: “Assessment of the Ecosystem Services in Sistelo.”

**Raj, Rengalakshmi** - Rengalakshmi is a Agronomist, working with the M.S. Swaminathan Research Foundation, Chennai, India, as a scientist for the past seven years. Her areas of research interest are agro-biodiversity conservation, food security, natural resources management, participatory research, sustainable agriculture, and rural development. She specializes in conservation and management of neglected and underutilized species.

**Ramos-Martin, Jesus** - Jesus Ramos-Martin, MSc in Ecological Economics (Autonomous University of Barcelona) and MA in Environmental Politics (Keele University, United Kingdom), is currently a researcher at the National Institute of Research on Food and Nutrition (INRAN, Italy). Formerly, he has been a researcher at FLACSO in Quito, Ecuador, and a lecturer at the Autonomous University of Barcelona, where he is finishing a PhD in Energy Metabolism and complexity in economies. His research topics are therefore energy metabolism of societies, renewable energy, complex systems theory, integrated environmental assessment, participatory integrated assessment, and rural development. He has published several papers and book chapters in both Spanish and English, and he is a founding member of the Iberoamerican Network for Ecological Economics, which is based in Quito, Ecuador.

**Raven, Margaret** - Margaret is doing her PhD through Murdoch University, Perth, Australia, and is currently a PhD Fellow with the United Nations University - Institute of Advanced Studies (UNU-IAS) in Tokyo, Japan. Before joining UNU-IAS, she worked as Heritage Officer in a Native Title Representative Body in Western Australia. Her PhD research focuses on how indigenous knowledge is used and shared by communities and organizations and the role that the “public domain” has in defining indigenous knowledge.

**Raza, Gauhar** - Gauhar Raza is an electrical engineer by qualification. A social scientist and a science communicator working in the area of Public Attitude Towards and Understanding of Science (PAUS) and Cultural Studies, he has more than 20 years of experience in conceiving and formulating national and cross-country research projects. He nucleated a research group in India and initiated research work in the area of PAUS in 1983 and administered the first national PAUS survey in 1989, followed by more than 13 large-scale national and cross-country survey studies among various groups of population. He is experienced in all aspects of video production on socially relevant subjects. Gauhar Raza is a renowned poet in India. Guahar and his co-author, Hester du Plessis, have been working and publishing together in the fields of Indigenous Knowledge Systems (IKS) and PAUS since 2000.

**Reid, Walter** - Dr. Walter Reid is the Director of the Millennium Ecosystem Assessment (MA) and is based at the WorldFish Center in Penang, Malaysia. Between 1998 and 2000, Dr. Reid led the process to establish the MA. From 1992 to 1998, Dr. Reid was Vice President for Program at the World Resources Institute in Washington DC, United States. He is a member of the Board of Editors of the journals *Ecosystems*, *Ecological Applications* and *Public Library of Science-Biology*, and past member of the Board of the Society for Conservation Biology. Dr. Reid earned his PhD in Zoology (Ecology and Evolutionary Biology) from the University of Washington in 1987 and his BA in Zoology from the University of California at Berkeley in 1978. He lives in Penang, Malaysia.

**Reijntjes, Coen** - Coen Reijntjes (1948), trained in land use planning and soil and water conservation. He worked in Niger and on the Cape Verdian Islands in integrated programmes and served as editor for the Information Centre for Low-external-input and Sustainable Agriculture (ILEIA). He is presently a staff member of Compas— Comparing and Supporting Endogenous Development. He lives in Leusden, Netherlands. Publication: Reijntjes C, Haverkort B, Waters-Bayer A. 1992. Farming for the Future: An introduction to Low External Input and Sustainable Agriculture. MacMillan, London.

**Rist, Stephan** - Stephan Rish is an agronomist and a rural sociologist. He is Senior Researcher at CDE and coordinator of a research partnership between

Switzerland, Bolivia, India, and Mali related to social learning for sustainability (SOLES). Stephan is a member of the National Centre of Competence North-South (NCCR North-South). His areas of interest are social learning processes, intercultural dialogue, and local knowledge in the fields of agroecology, natural resource management, and community organization, inter- and transdisciplinary research concepts, and methodologies.

**Rocheleau, Dianne** - Dianne Rocheleau has worked with rural people for the last 25 years on agroforestry, watersheds, and biodiversity in the context of changing landscapes and livelihoods. She worked as a senior scientist at the International Council for Research in Agroforestry (ICRAF) from 1983–1986, at the Ford Foundation Nairobi Office as a Program Officer from 1986–1989, and is currently an Associate Professor at Clark University (1989–2004). She is co-author of two books, *Agroforestry in Dryland Africa* and *Gender and Environment in Kenya: A Grassroots Perspective* and co-editor of two volumes, *Feminist Political Ecology*, and *Power, Process and Participation*. She was awarded a Radcliffe Institute Fellowship at Harvard University in 2002–2003 to work on a book, *The Invisible Ecologies of Machakos: Landscapes and Life Stories, 1900–2000*. She is currently conducting socio-ecological research on biodiversity in densely populated agrarian, forested, and urban landscapes in the Dominican Republic.

**Romm, Jeffrey** - Jeff Romm is professor of resource and environmental policy at the University of California, Berkeley. He works primarily on environmental governance, equity and sustainability.

**Roth, Robin** - Robin Roth just completed her PhD at the Clark University Graduate School of Geography. Her research interests include conservation mechanisms, rural livelihood strategies, scientific and popular knowledge, community-based mapping, gendered resource use, and spatial theory.

**Rotmans, Jan** - Jan Rotmans is one of the founders of Integrated Assessment (IA), and has extensive experience in IA modeling, scenario-building, indicator development and management of uncertainty. He studied mathematics at the Technical University of Delft, where he got his Master's degree in 1986. His PhD involved the first integrated assessment model on climate change (IMAGE) at

Maastricht University and the Dutch Institute for Public Health and Environment (RIVM). Since 1992, Rotmans has had a professorship at Maastricht University as chair of 'Integrated Assessment.' In 1998 he founded the International Centre for Integrative Studies (ICIS) at Maastricht University.

**Roué, Marie** - Marie Roué is an anthropologist at the Centre National de la Recherche Scientifique (CNRS-France) and a specialist on relations between society and nature, and on indigenous knowledge. After devoting her doctoral work to the Saami reindeer herders of northern Norway, she has investigated the role of local knowledge in impact assessment with Cree First Nations of Quebec (Canada) and examined people/nature relationships amongst managers, scientists and herders in the Cévennes National Park in southern France. She has recently edited an issue of the International Social Science Journal (No. 178: 2003) on "NGOs, Indigenous Peoples and Local Knowledge: Issues of power in the biodiversity arena".

**Salas, Maria Angelica** - Maria Salas is a Peruvian anthropologist (PhD), specialised in intercultural dialogue between knowledge systems. She wants to support learning processes that open up spaces for the exchange of different ways of perception, feeling, and thinking. She is living and working in Southeast Asia, promoting an approach for the affirmation of indigenous cultures and knowledge.

**Salick, Jan** - Jan Salick is Curator of Ethnobotany at the Missouri Botanical Garden. Academically, she has been developing Ecological Ethnobotany to study interactions between plants and people for over 25 years, while applying indigenous knowledge of natural resource management for conservation. Her work spans Central America, Amazonia, Southeast Asia, and, most recently, Tibet. She has authored nearly 40 scientific articles. She is Past-President of the Society for Economic Botany, Fellow of the American Association for Advancement of Science, on the Council of the Association for Tropical Biology, and is promoting Traditional Knowledge within the International Union of Biological Sciences and International Council for Science.

**Samper, Cristian** - Dr. Cristian Samper has been Director of the National Museum of Natural History since 2003. The Costa Rican native was previously the Deputy Director of the Smithsonian Tropical Research Institute (STRI) in Panama. Samper studied

Biology as an undergraduate at the University of the Andes in Bogota, Columbia, and earned his masters and PhD in Biology from Harvard. Prior to joining STRI, Dr. Samper created an environmental education program for 10,000 schools in Columbia, and helped form Colombia's environment ministry in 1993.

**Santiarunothai, Noi** - Noi Santiarunothai is a Karen female leader and farmer from Meketi Village, Doikheaw, Chiang Mai, Thailand.

**Saway, Datu Migketay Victor** - Datu Victorino L. Saway, who is also known as Datu Migketay, is a practitioner of the living cultures of the indigenous Talaandig community of Bukidnon Province, Mindanao Island, Philippines. He is a mediator, a ritualist, and historian of the tribe. He attained a college education as a State Scholar with a background in the field of anthropology. Datu Migketay is the spokesperson of KASAPI, a coalition of the Indigenous Peoples of the Philippines and Founder of the Talaandig School for Living Traditions. He was also a Commissioner of the National Commission on Indigenous Peoples created under Republic Act No. 8371, a law protecting the rights of indigenous and local communities in the country.

**Schandl, Heinz** - Heinz Schandl has a PhD in Sociology from the University of Vienna. Since 1994, he has been employed at the Institute for Interdisciplinary Studies of Austrian Universities, Department of Social Ecology. He is head of and contributor to several interdisciplinary research projects dealing with society's natural relations, both with an historical or a policy-oriented focus. He wrote "Southeast Asia in Transition," funded by the EU commission (a comparative analysis of the trajectory of development of Laos, Thailand, Philippines and Vietnam), and a historical case study on integrated environmental accounting for the United Kingdom, funded by the Breuninger Stiftung and the Austrian Ministry of Science. He is active in the fields of material flow analysis, environmental accounting, social theory and the environment, and ecological economics.

**Scholes, Bob** - Dr. Bob Scholes is a systems ecologist who studies effects of human activities on the global ecosystem, and in particular on woodlands and savannas in Africa. He is co-chair of the Condition and Trends Working Group of the

Millennium Ecosystem Assessment and coordinates the regional scale of the Southern African Millennium Ecosystem Assessment. He is or has been a member of several steering committees of international research programmes, such as the International Geosphere-Biosphere Programme and the Global Climate Observing System, and served as a convening lead author for the Intergovernmental Panel on Climate Change. He is the Chairman of the Global Terrestrial Observing System and a Board Member of International Centre for Research in Agroforestry.

**Schultz, Lisen** - Lisen Schultz was born in Stockholm, Sweden in 1976. After finishing her studies in Biology, Geosciences and Environmental Economics with a degree project in Systems Ecology, she worked for two years on relations between scientists and the society. Since 2002, she has been a PhD student at the Centre for Research on Natural Resources and the Environment (CNM), Stockholm University, working with the Swedish Sub-global Millennium Ecosystem Assessment in Kristianstad, southern Sweden. Professor Carl Folke is her supervisor.

**Seixas, Cristiana Simao** - Cristiana Simao Seixas obtained a PhD in Natural Resources and Environmental Management from University of Manitoba, Canada in 2002 and a MSc in Ecology from the State University at Campinas (UNICAMP), Brazil in 1997. Her research interests include common-property resources management, co-management, social-ecological resilience, and traditional ecological knowledge. She has studied small-scale fisheries in the Amazon and the Atlantic coast of Brazil.

**Serageldin, Ismail** - Ismail Serageldin is the Director of the newly established Bibliotheca Alexandrina in Egypt, and chairs the Boards of Directors for each of the seven research institutes and three museums affiliated to the Bibliotheca Alexandrina. Previously he served as Vice President of the World Bank (1992–2000); Chairman of the Consultative Group on International Agricultural Research (CGIAR, 1994–2000); Chairman of the Consultative Group to Assist the Poorest (CGAP), a micro-finance program (1995–2000); Chairman of the Global Water Partnership (GWP, 1996–2000); and Chairman of the World Commission for Water in the 21st Century (1998–2000). Dr. Serageldin worked in a number of capacities at the World Bank

(1972–2000) and has published and lectured widely. He holds a Bachelor of Science in engineering degree from Cairo University, and a Masters degree and a PhD from Harvard University, and has received 15 honorary doctorates. Dr. Serageldin currently serves as Distinguished Professor at Wageningen University in the Netherlands and as chair and member of a number of advisory committees for academic, research, scientific, and international institutions and civil society efforts.

**Shanmuganathan, Subana** - Subana Shanmuganathan graduated from Auckland University of Technology (AUT), New Zealand. She received a BSc in Natural Science and MSc in Computer Science from the University of Jaffna and University of Colombo, Sri Lanka, respectively. She is currently working on completing her Phd on "Soft Systems analysis of ecosystems" at AUT. Her main research interests are artificial neural network and artificial intelligence applications in ecology, office automation, and text mining.

**Shrestha, Pratap** - Pratap Shrestha is Programme Officer at Local Initiatives for Biodiversity, Research and Development (LI-BIRD), a national NGO in Nepal. Currently working as Project Leader for LI-BIRD on a collaborative soil and water management project with the University of Wales, Bangor, United Kingdom. A socio-economist by profession, Pratap is currently investigating farmers' local knowledge on soil and water management and ways to incorporate these knowledge into participatory technology development for minimising soil and nutrient losses from the Middle Hills of Nepal. The investigation is also part of ongoing PhD research with the University of Wales, Bangor, United Kingdom.

**Snapp, Sieglinde** - As an assistant professor of vegetable integrated crop management at Michigan State University, Sieglinde's focus is on applied, systems research and outreach to develop farmer knowledge and problem-solving capacity. Long term, she works to promote adoption of more biologically-smart and sustainable systems in high-risk, high-input vegetable systems. The underlying premise is that nutrient efficiency is enhanced by greater use of carbon sources to build soils and greater reliance on deep rooting legumes. She collaborates with farmers and extension staff to investigate mechanisms and develop technologies that integrate nutrient sources and use manure and cover crops to diversify systems and promote vigorous roots and healthy crops. She

has over seven years of experience living in southern Africa and has collaborated with national scientists to research maize and bean systems and use integrated soil management practices, and continues to research and teach on African cropping systems. She is deeply committed to developing new outreach methods and improving communication among researchers, farmers, crop advisors and extension. She developed a novel farmer participatory research method, the "mother/baby trial." This on-farm trial design facilitates the relatively rapid but rigorous integration of farmer and researcher assessment of technologies and varieties. It is now used on a wide-scale, including scientists from eight different countries.

**Soeftestad, Lars T.** - Lars T. Soeftestad is Manager, Supras Consult, Norway. His main applied and research interests are in the area of natural resource management, including coastal zone management, fisheries, and rangeland management, and in knowledge management, networking, and ICTs and development. The role of institutions—existing and created ones—in bringing about co-management and decreasing conflict between natural resource management practices at local, national, and international levels is a key focus. He has worked for bilateral aid agencies (NORAD and Sida). Formerly a World Bank staff member, he now works for the World Bank as a consultant. He was trained as an anthropologist in Bangladesh, Norway, Switzerland, and the United States, and is crazy about flyfishing.

**Tawfic Ahmed, Mohamed** - Professor Tawfic Ahmed is an environmental toxicologist by training. He is the executive director of the Environmental Impact Assessment Unit, at Suez Canal University. Professor Tawfic Ahmed was a visiting professor at Portsmouth and Manchester universities, England, UK. Professor Tawfic Ahmed has been acting as a technical consultants for a number of national and international organizations that include, united nations environmental program, and united nation development program. Professor Tawfic Ahmed is also a Coordinator, Sub Global Assessment, Sinai, Egypt, Millennium Ecosystem Assessment.

**Tekelenburg, Antoni** - Antoni Tekelenburg worked for 15 years in rural development projects in Latin America. He wrote a PhD dissertation (2001) on the design experiences of beta-gamma science integration entitled: *Cactus Pear and Cochineal in*

*Cochabamba: the development of a cross-epistemological management toolkit for interactive design of farm innovation.* He is working at RIVM on the design of a pressure and species based model for assessment of biodiversity trends worldwide.

**Tengö, Maria** - Maria Tengö is a PhD student in Natural Resources Management, studying resilience of linked social-ecological systems, supervised by Dr. Monica Hammer and Prof. Carl Folke at the Department of Systems Ecology. Her work so far has mainly been based on fieldwork in Tanzania but she recently began a study on Madagascar. She is also involved in the Swedish case studies for the Millennium Ecosystem Assessment. She grew up in a rural setting on the island of Öland in southern Sweden.

**Tillmann, Hermann** - Born in Germany, Hermann Tillmann is committed as Advisor to the Indigenous Knowledge and Peoples Network in Southeast Asia, based in Chiang Mai, Thailand. He works as anthropologist and trainer in the practical field of rural development. He focuses on the design of learning opportunities for the intellectual encounter of different actors and scenarios.

**Tomich, Thomas P.** - Thomas P. Tomich is Principal Economist at the International Centre for Research in Agroforestry and Global Coordinator of the Alternatives to Slash- and-Burn Programme. Dr. Tomich leads the global synthesis of ASB results and has overall responsibility for management and leadership of the global programme. From 1994–2000, he was based in Bogor, Indonesia, where he conducted policy research on the economics and environmental impacts of land-use change, on land and tree tenure institutions, and on national policies that affect upland resource management and land-use change. Tomich has a PhD from the Food Research Institute, Stanford University, United States, specializing in agricultural production economics, food consumption economics, and human nutrition and demography.

**Townsend, Patricia K.** - Patricia K. Townsend, PhD, is Research Associate Professor of Anthropology at the University at Buffalo. Her most recent major publications are *Environmental Anthropology* (Waveland 2000) and "Medical Anthropology" in *Ecological Perspective* (with Ann

## PARTICIPANT BIOGRAPHIES

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McElroy, 4th edition, Westview 2004). Her research in Papua New Guinea was focused on lowland peoples using the sago palm and, at the PNG Institute of Applied Social and Economic Research, on health services. More recently, as Environmental Fellow of the Society for Applied Anthropology, she did research at Superfund (hazardous waste) sites in the United States.

**Townsend, William H.** - William H. Townsend, PhD, PE, is Chief, Navigation and Maintenance NY/PA, U.S. Army Corps of Engineers. His academic areas of research within civil engineering are structural and earthquake engineering. He worked for the government of Papua New Guinea from 1981 through 1984 on the Ok Tedi project as Assistant Manager, Technical, Mineral Resources Development Company. His paper, "Giving away the river: environmental issues in the construction of the Ok Tedi Mine, 1981–1984" (1988, in J. C. Pernetta, ed., *Potential Impacts of Mining on the Fly River*, United Nations Environmental Programme, pp.107-119) describes how the environmental agreement was discarded.

**Trakansuphakon, Prasert** - Prasert Trakansuphakon is a Karen leader, educator and Regional Coordinator of the IKAP-network. He is studying the perceptions of Karen villagers on rotational farming and the cultural resistance of the Karen people through local indigenous environmental movements (as an insider) for his PhD at the RCSD of Chiang Mai University, Thailand.

**Tsana, Nyakanzima MacDonald** - Nyakanzima MacDonald Tsana is a local freelance artist living and working in Eastern Cape, South Africa. He specializes in dance as a way of reflecting his life and his society. He does African contemporary dance and is interested in the mix between traditional ways of expressing and Western ideas of movement and expression. Since 1999, he has been doing work in educational drama and theatre addressing issues of water use, prisoner development, environmental research and "future scenarios." He is interested in the development and support of children and communities using drama and dance.

**van Beek, Walter E.A.** – Dr. Walter E.A. van Beek is Associate Professor of Anthropology at Utrecht University and Research Fellow at the African Studies Centre. He has performed extensive field research in Cameroon and Mali on issues relating to

long term adaptation and coping of mountain populations (Kapsiki/Higi resp. Dogon) and local African religions, research that is still ongoing in both places. The study of tourism in Africa is a recent addition to his interests. Also he is involved in research in Southern Africa, in particular Namibia. Recent publications include: (2003) *Meeting Culture. Essays in honour of Arie de Ruijter*, ed. with W. Pansters & M. Fumerton, Shaker Publ. 388 p.; (2003) The African tourist encounter; Effects of Tourism in Two West-African Societies, *Africa*, 73, 3.pp. 251 – 289; (2001) *Dogon; Africa's People of the Cliffs* (Illustrated monograph, with S. Hollyman, photographer) H. Abrams, New York, 180 pp.

**van Walsum, Edith** - Edith van Walsum (1953), is trained in Agricultural Sciences. She worked in India as team leader of the AME project (an innovative training and resource centre for sustainable agriculture, rural livelihoods, and ecology). Her professional focus is engendering development processes, sustainable rural livelihoods, food security, and sustainable natural resource management.

**Vergara Tenorio, Maria del Carmen** - Dr. María del Carmen Vergara-Tenorio holds a PhD from the University of Illinois at Urbana-Champaign in Human and Community Development. She has worked in the field of community natural resource planning, environmental risk, and conservation. Dr. Vergara is currently working as a full professor at the Centro de Investigaciones Tropicales - CITRO in the Universidad Veracruzana in México.

**Vermeulen, Sonja** - Sonja Vermeulen works at the International Institute for Environment and Development (IIED), an international research and advocacy organisation in sustainable development. She is involved in policy work with partners in Asia, Africa, and Latin America on issues of equity in land use, forestry, and biodiversity management.

**Vu Phuong, Manh** - Manh Vu Phuong works as an International Affairs Officer at the Institute of Geography (IG), National Centre for Natural Science and Technology, Vietnam. He has worked as editor/translator for various international projects, as a member of the Database Working Team in national projects, and as a member of the Millennium Ecosystem Assessment Candidate Assessment in Downstream Mekong

**Walker, Nathalie** - Nathalie Walker is an ecologist with a PhD in Plant Ecology from the University of Durham, United Kingdom, and has an MA degree in Plant Sciences from the University of Cambridge. She has studied forest ecology in North, Central, and South America, and has a particular interest in tropical forest conservation and sustainable forest management. She is currently working at the International Development Centre of Oxford University.

**Waltner-Toews, David** - David Waltner-Toews is professor of Population Medicine at the University of Guelph. His research interests are international development, complexity, and post-normal science. Much of his research is on integrating socio-economic, cultural, environmental, and health concerns using community-based systems approaches. He is a member of the International Society for Veterinary Epidemiology and Economics and the International Society for Ecosystem Health. He founded the Network for Ecosystem, Sustainability and Health (<http://www.nesh.ca/>), a not-for-profit organization that employs adaptive ecosystem approaches to help resolve questions in community health, agriculture, and resource management. He published extensively on the subjects mentioned above. For more see <http://www.ovcnet.uoguelph.ca/popmed/ecosys/index.html>.

**WANG, Qiao** - Wang Qiao is the Director of the Environmental Information Center of the State Environmental Protection Administration (SEPA), Director of the China GIS Association, Vice General Director of Resource and Environment Committee of the China GIS Association, and Vice General Director of Government Committee of China GIS Association. His work focuses on theory, methodology, and application of environmental RS and GIS, Space decision-making support systems.

**Wang, Changlin** - Wang Changlin obtained his PhD degree in 1995 from Leicester University, United Kingdom. He has worked on remote sensing with the Institute of Remote Sensing Applications of the Chinese Academy of Sciences since 1995. He currently works at the Secretariat Office of the International Steering Committee on the International Symposium on Digital Earth (ISDE).

**Wenzel, Volker** - Volker Wenzel is a mathematician by education. He received his doctorate in the field of Systems Analysis at the Academy of Sciences, Berlin, in 1987. His thesis focused on the design and

realization of a branch-specific simulation language for ecological systems. Since 1991, Volker has been a member of the Potsdam-Institute of Climate Impact Research and is working there in Integrated Systems Analysis. He is co-editor of the book *Earth System Analysis: Integrating Science for Sustainability*.

**Wilbanks, Thomas** - Dr. Wilbanks is a Corporate Research Fellow and leader of Global Change and Developing Country Programs at the Oak Ridge National Laboratory, USA. A former President of the Association of American Geographers, his research has emphasized energy and environmental technology and policy assessments, alternative responses to global environmental change, and the implications of geographic scale in these regards. He has played roles in the first U.S. National Assessment of Consequences of Climate Change, the Intergovernmental Panel on Climate Change (IPCC), the U.S. Human Dimensions of Global Change program, the U.S. Carbon Cycle Research Program, and other national and international assessments.

**Wilson, Darryn** - Darryn is a Larrakia man from the Darwin region of Australia. He is a lecturer in natural and cultural resource management at the Batchelor Institute of Indigenous Tertiary Education, Northern Territory.

**Woodley, Ellen** - Ellen Woodley recently completed a PhD in the Rural Studies Program at the University of Guelph. Ellen also has a MSc in International Development from the University of Guelph, where her research was based in Indonesia on agricultural knowledge of hill farmers. She also has a MSc from the University of Toronto in plant ecology in a high arctic ecosystem. Ellen is currently working for Terralingua, compiling information for a Global Source Book on Biocultural Diversity, and was previously working with the International Development Research Centre (IDRC) in Ottawa, Canada, reviewing projects for the Sustainable Use of Biodiversity Program for their incorporation of indigenous ecological knowledge.

**XU, Jianchu** - Xu Jianchu, PhD in Environmental Sciences, is executive director of the Center for Biodiversity and Indigenous Knowledge, an NGO based in Southwest China for biodiversity conservation, community livelihood, and watershed governance. He is currently serving as the vice chair of Board of Regional Community Forestry Training Center for Asia and the Pacific, and the scientific

## PARTICIPANT BIOGRAPHIES

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steering committee, Lucc-IGBP/IHDP. He has intensive field and international exposure to cross-culture and cross-border comparison, intensive field experience in Southeast Asian countries in conservation, forestry, ethnoecology, resource management, land use and land cover change, and policy analysis.

**YAN, Wanglin** - Wanglin YAN graduated from Wuhan Technique University of Surveying and Mapping in 1982 and obtained a doctoral degree at Department of Civil Engineering, University of Tokyo, in 1992. He is associate professor, Faculty of Environmental Information at Keio University, Japan, and is engaged in research on sustainable development strategies and policies through applications of ecological and geographic information systems and science.

**YANG, Fuquan** - Dr. Yang Fuquan, born in Lijiang, China, is Vice-President of the Yunnan Academy of Social Sciences in Kunming. The way he deals with issues like religion, gender, or education shows an original approach: On the one hand, he stewards Naxi Culture with respectful and thoroughly investigated topics. On the other hand, he achieves a level of self-reflection in his writings, a product of the undeniable fact that he is Naxi.

**Yin, Yongyuan** - Dr. Yongyuan Yin is a senior associate with SDRI/UBC and an environmental scientist with Environment Canada. His research interests cover climate change, sustainability evaluation, and environmental and resource management. He has designed and applied integrated assessment (IA) methods to study the impacts of climate change and adaptation in the Georgia Basin and Mackenzie River Basin of Canada, and the Yangtze Delta in China. He is currently the Co-PI of an Assessments of Impacts of and Adaptation to Climate Change (AIACC) project in Western China funded by UNEP/GEF and is leading the IA of a CIDA project on carbon sequestration in China.

**You, Liangzhi** - Liangzhi You, a senior scientist, joined IFPRI in 2000 to conduct research on agricultural science and technology policy, spatial analysis patterns, and processes in agriculture, environment, and poverty nexus. He earned a BS in Hydraulic Engineering from Tsinghua University, Beijing, and an MS in Environmental Economics and

Ph.D. in Civil and Environmental Engineering from Johns Hopkins University. Before joining IFPRI, Liangzhi You was a research assistant at Johns Hopkins University.

**YU, Hua** - Dr. Yu Hua is an associate professor with the International Institute of Earth System Science at Nanjing University, P.R. China. Her research interests include plant ecophysiology, plant response to climate change, and biological diversity. Yu Hua has published six academic articles, including four SCI papers.

**YUE, Tian Xiang** - Prof. Tian Xiang YUE is the leader of Ecological Modelling and GIS Research Group, which belongs to Institute of Geographical Sciences and Natural Resources Research of the Chinese Academy of Sciences. He and his research group focus on surface modelling of ecosystems and system simulation.

**Zhang, Hong** - Professor Zhang Hong is Dean of Faculty of Statistics and Information at Yunnan University of Finance and Economics. He is also Head of the Department of Resources and Environment. Zhang Hong's research interests include urban and regional economics, regional and land use planning with GIS, ecological economics, and sustainability. Zhang Hong has finished about 30 research projects, published two books and about 30 academic articles. He received an award from the Yunnan Provincial Government for Science & Technology Advancement for Social Science Excellent Achievement five times.

**Zurek, Monika** - Monika Zurek is a postdoctoral researcher in the Economics Department of the Food and Agriculture Organization of the United Nations. Her research interests include the economics of technology adoption by small-scale farmers. She is part of the technical support team for the Scenarios Working Group of the Millennium Ecosystem Assessment.

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