Contributors

Stuart Bain is a Post-doctoral Research Fellow at the Institute of Transport and Logistics Studies (ITLS), University of Sydney. Stuart completed his doctoral studies in 2007 in the field of computer science, developing new methods for the automatic development of algorithms to solve different classes of optimization problems. Stuart joined ITLS in 2006, primarily developing new optimization methods for the Vehicle Routing Problem. His research activities at ITLS have since broadened, and now include fields as diverse as algorithm design for stated choice experiment construction to transport modelling. His primary teaching responsibilities at ITLS are to teach computational logistics at the institute.

Ian J. Bateman is Professor of Environmental Economics and Director of the Centre for Social and Economic Research on the Global Environment (CSERGE) at the University of East Anglia and also holds professorships in Australia and New Zealand. His main research interests include: integrated and spatially sensitive modelling of physical, biological and economic systems and their associated ecosystem services; the formation and valuation of preferences for non-market goods and services (environment, health, and so on); preference anomalies and behavioural economics; working with policy-makers to address real-world environmental resource management issues. He heads the economics team for the UK National Ecosystem Assessment (NEA) and is adviser to a number of national and international bodies.

Jeff Bennett is Professor in the Crawford School of Economics and Government at the Australian National University. Professor Bennett has over 30 years’ experience researching, consulting and teaching in the fields of environmental economics, natural resource economics, agricultural economics and applied micro-economics. He is currently leading research projects investigating the use of non-market techniques to estimate the value of the environment, the use of auctions to encourage land-use change in western China and private sector conservation initiatives. Jeff is a Distinguished Fellow of the Australian Agricultural and Resource Economics Society, was President of that Society in 2004 and is a member of the Mont Pelerin Society. He is co-editor of the Australian Journal of Agricultural and Resource Economics and Director of the Environmental Economics Research Hub.
Contributors

Elena Y. Besedin is a Senior Economist with Abt Associates in Cambridge, MA. She received a PhD in environmental and natural resource economics from the University of Rhode Island and an MS in economics from the Moscow Telecommunication Institute. Dr Besedin has published expertise in areas that include non-market valuation methods, benefits analysis, cost–benefit analysis, environmental risk assessment, benefit transfer, and integrated ecological and economic assessment. She specializes in economic analysis of environmental policy and regulatory programs, including analysis of economic benefits from reducing risks to the environment and human health. She has extensive experience in policy analysis for the US Environmental Protection Agency (EPA) and other government agencies, and in the management of large-scale multidisciplinary projects for benefit–cost analysis.

Michiel C.J. Bliemer is Associate Professor of Transportation Modelling at Delft University of Technology at the Department of Transport and Planning and also works as consultant at Goudappel Coff eng in the Netherlands. Since 2003 he has also been affiliated with the University of Sydney as a yearly visiting academic at the Institute of Transport and Logistics Studies. His research interests include dynamic network modelling, travel behaviour, design of stated choice experiments and road pricing.

Roy Brouwer is Professor in the Department of Environmental Economics at the Institute for Environmental Studies, VU University Amsterdam. He holds a PhD in environmental economics from the University of East Anglia in the UK. His research interests include economic valuation of the environment, in particular payments for ecosystem services.

Richard T. Carson is Professor in the Department of Economics at the University of California (UC), San Diego, and is a past President and Fellow of the Association of Environmental and Resource Economists. Previously he served as Research Director for International Environmental Policy at the UC Institute on Global Conflict and Cooperation. He has worked on a range of environmental economics and econometric issues with a particular emphasis on the valuation of non-marketed and new goods. He has served as principal investigator on several major projects including the benefit assessment for the US Clean Water Act and the damage assessment for the Exxon Valdez oil spill. Carson has also served as a consultant to a number of local, state, federal agencies, foreign governments and international organizations as well as to several Fortune 500 companies. He has been a member of US National Academy of Sciences committees reviewing oil spill prevention policies and water resource planning procedures.
Joseph Champ is an Associate Professor in the Department of Journalism and Technical Communication at Colorado State University (CSU) in Fort Collins, Colorado. Champ was a television journalist for ten years before returning to graduate school. He is interested in issues related to environmental communication, while keeping up his television/video skills, primarily as an instructor for CSU’s intermediate television production course. His work has been published in *Leisure Sciences, Society & Natural Resources, Human Dimensions of Wildlife, Popular Communication: International Journal of Media and Culture* and *Journal of Media and Religion*.

Jeremy Cheesman is a senior resource and environmental economist with Marsden Jacob Associates. He advises public and private organizations on matters spanning infrastructure investment decisions, production efficiency analysis, market demand analysis, the non-market valuation of environmental and natural resources, social cost–benefit analysis, public sector reform and policy development, and the macroeconomic (CGE) effects of public and private infrastructure investments. Prior to joining Marsden Jacob Associates, Jeremy worked for five years as a senior water economist on a sustainable water resource management project in the Central Highlands region of Vietnam. This project was funded by the Australian Centre for International Agricultural Research (ACIAR). Jeremy has published widely in the areas of applied water, environmental and agricultural economics. His publications include professional peer-reviewed journal papers, book chapters, technical reports and conference papers.

Sergio Colombo is a senior researcher at IFAPA in Granada, Spain. He obtained his PhD from the University of Granada. He has worked extensively in the area of choice experiments, especially on issues of benefit transfer.

John Downing is a Professor of Ecology, Evolution, and Organismal Biology at the Department of Agricultural and Biosystems Engineering, Iowa State University (ISU). His research interests include limnology, aquatic ecology, terrestrial ecology, microbial ecology, biogeochemistry, population conservation, and whole ecosystem restoration and management. John is a member of the Board of Directors of the American Society of Limnology and Oceanography, an invited member of the North American Nitrogen Center, and has advised many policy-makers and citizens groups concerning water quality management. He received his BS from Hamline University (St. Paul, MN), his MS from NDSU (Fargo, ND) and his PhD from McGill University (Montreal, Canada). He was
Contributors

formerly a Professor at McGill University and the University of Montreal where he was Director of the Laurentian Biological Station. He has been at ISU since 1995 and is the Director of the Iowa State University Limnology Laboratory and has surveyed water quality in Iowa’s lakes since 2000. Dr Downing has published his research in a wide variety of journals, including *Limnology and Oceanography*, *Ecosystems*, the *Canadian Journal of Fisheries and Aquatic Science*, the *Journal of Soil and Water Conservation* and the *Ecology of Fresh Water Fish*.

Jeffrey Englin received his PhD in Economics from the University of Washington in 1986. His research is focused on applied econometrics with an emphasis on the valuation of natural resources. He is currently a Professor in the Department of Resource Economics at the University of Nevada, Reno.

Sonia Garcia is an environmental consultant in Kaneohe, Hawaii.

Marek Giergiczny is Assistant Professor in Applied Economics at the University of Warsaw, Poland. He also works as a senior researcher in the Warsaw Ecological Economic Center. His research interests focus mainly on valuation of non-market resources and ecosystem services.

Armando González-Cabán is Research Economist with the Forest Service, Pacific Southwest Research Station, Forest Fire Laboratory in Riverside, California. He has worked for over thirty years in the field of fire economics, with emphasis on the economic effects of wildland fires on natural resources, non-market resource valuation, fire management decision-making in large fires, and the attitudes and values of individuals towards Forest Service fire management policies. His work has been published, among others, in journals such as *Land Economics*, *International Journal of Wildland Fire*, *Ecological Economics* and *Journal of Environmental Management*.

Theodore Groves received his BA from Harvard and his PhD in Economics from the University of California, Berkeley in 1970. Prior to coming to the University of California, San Diego (UCSD) as a Professor of Economics in 1979, he was a faculty member at the University of Wisconsin, Madison, Northwestern University’s Kellogg School of Management and Stanford University. He was a founder of mechanism design theory and the discoverer of the ‘Groves Mechanism’, for eliciting truthful information in an incentive-compatible manner. He and co-author John Ledyard also developed the first general equilibrium solution to the ‘free rider problem’ of public goods. Professor Groves has also studied the Chinese economy’s transition to a market economy, optimal policies for minimizing the
occurrence of oil spills, the incentive compatibility of stated-preference surveys and improved methods for video multiplexing. He is the Director of the Center for Environmental Economics in the Department of Economics at UCSD and is involved in ongoing research on water pricing, consumer responses to smart-metre technology for electrical energy consumption, and numerous projects for managing marine resources and the protection of endangered species. He is an elected Fellow of the Econometric Society and the American Academy of Arts and Sciences.

Nick Hanley is Professor of Environmental Economics at the University of Stirling. He has been undertaking stated preference studies since 1985, and implemented the first UK choice experiment study of environmental management issues in 1997. He is the author of several textbooks, including *Pricing Nature* (with Edward Barbier), *Environmental Economics in Theory and Practice* and *Introduction to Environmental Economics* (both with Jason Shogren and Ben White).

Joseph A. Herriges is a Professor of Economics at Iowa State University, where he has been on the faculty since 1988. Prior to that, he was a Senior Economist at Laurits R. Christensen Associates in Madison, Wisconsin, where he specialized in incentive design and evaluation in the electric power industry. He holds a PhD in Economics from the University of Wisconsin-Madison (1983). Much of his recent research has focused on non-market valuation techniques, including both stated and revealed preference methods. Dr Herriges was the managing editor of the *Journal of Environmental Economics and Management* from 2001 to 2006, and has served on the editorial boards of the *Journal of Choice Modeling*, *Environmental and Resource Economics* and *Australian Economic Papers*. He has published his research results in a wide variety of journals, including the *Review of Economic and Statistics*, the *Journal of Business and Economic Statistics*, *Environmental and Resource Economics*, the *Journal of Environmental Economics and Management*, the *Journal of Econometrics* and the *American Journal of Agricultural Economics*.

Sebastiaan Hess works as an independent environmental economist. Between 2003 and 2008 he was employed as a researcher at the VU University in Amsterdam. His research experience is mostly linked to developing countries, having worked on topics such as payments for environmental services, valuation of watershed functions, environmental taxation, rangeland management and the sustainable development contribution of clean development mechanism (CDM) projects. Outside the developing country context, his experience is related to the valuation of coral reef services, ground and surface water quality, among others.
Contributors

**Thomas Holmes** received his PhD in Agricultural and Resource Economics from the University of Connecticut in 1986. He has worked extensively in the areas of non-market valuation, environmental policy and timber markets and harvesting. He is currently a Research Forest Economist with the US Forest Service located in the Southern Research Station in Research Triangle Park, North Carolina.

**Yongsik Jeon** is currently a Research Fellow at the Strategic Management and Research Center of Woori Finance Holdings in Seoul, South Korea. He received his PhD in Economics from Iowa State University in 2005, where his dissertation research focused on valuing water quality in lake ecosystems. A portion of this research is published in *Environmental and Resource Economics*.

**Robert J. Johnston** is Director of the George Perkins Marsh Institute and Professor of Economics at Clark University. He received his BA from Williams College and PhD from the University of Rhode Island. He is currently President of the Northeastern Agricultural and Resource Economics Association and Vice President of the Marine Resource Economics Foundation, and is on the Program Committee for the Charles Darwin Foundation, the Science Advisory Board for the Communication Partnership for Science and the Sea, and the Gulf of Maine Regional Ocean Science Council. Professor Johnston is an environmental and resource economist with extensive publications on the valuation of non-market commodities and ecosystem services, benefit transfer and meta-analysis, and the management of aquatic, coastal and ecological resources. His work on valuation, benefit transfer, coastal and ocean management, and environmental economics has contributed to national, state and local policy in the US, Canada and elsewhere.

**H. Allen Klaiber** is an Assistant Professor of Agricultural and Environmental Economics in the Department of Agricultural Economics and Rural Sociology at the Pennsylvania State University. He holds a PhD in Economics from North Carolina State University. His research areas broadly include topics in environmental economics and applied econometrics. An area of emphasis in his research is valuation of amenities using revealed preference data on housing markets in a general equilibrium setting.

**Catherine L. Kling** is Professor of Economics at Iowa State University and the Center for Agricultural and Rural Development. She received her PhD from the University of Maryland and began her professional career at the University of California, Davis. Her research interests include non-market valuation methods, the design of agricultural conservation...
policy, and incentives for the provision of ecosystem services. Cathy is a Fellow of the Agriculture and Applied Economics Association (AAEA), a member EPA’s Science Advisory Board, president-elect of the Association of Environmental and Resource Economists and past board member of the AAEA. She has held editorial positions with the American Journal of Agricultural Economics, Journal of Environmental Economics and Management and Land Economics. She has been the recipient of over $7 million in grants and has published in the Economic Journal, the Review of Economics and Statistics, the American Journal of Agricultural Economics, the Journal of Environmental Economics and Management, Economic Inquiry, the Journal of Public Economics, Land Economics and elsewhere.

Yi Liu received his B Eng. degree from Jilin University, Changchun, China in 2003, and his MSc degrees from the VU University Amsterdam, the Netherlands in 2005 and 2007, majoring in Environment and Resource Management, and Hydrology respectively. After working in Commonwealth Scientific and Research Organization (CSIRO) Land and Water, Canberra, Australia for one year as a research officer, he is currently pursuing his PhD degree at the University of New South Wales, Sydney, Australia, applying remote sensing observations to the hydrological cycle.

John Loomis is a Professor in the Department of Agricultural and Resource Economics at Colorado State University. He is the author of three books (Integrated Public Lands Management, Environmental Policy Analysis for Decision Making, and Recreation Economic Decisions, 2nd edn) as well as over one hundred journal articles dealing with economic valuation of non-marketed natural resources using the contingent valuation, travel cost and hedonic property methods. He is a Distinguished Scholar of the Western Agricultural Economics Association.

Pierre-Alexandre Mahieu obtained his PhD on valuation in December 2009 at the University of Rouen (France) after having spent some time at the Autonomous University of Barcelona (Spain). He is currently a guest researcher at the Centre for Environmental and Resource Economics (Sweden). His main interests within stated preferences are uncertainty, hypothetical bias and monetary illusion.

Kenneth E. McConnell is Professor in the Department of Agricultural and Resource Economics at the University of Maryland where he has been on the faculty since 1979. His research has been in the area of environmental and natural resource economics, with emphasis on non-market valuation. His papers have been published in leading economics journals and in the principal field journals for environmental and resource economics.
Contributors

Ståle Navrud is a Professor of Environmental and Resource Economics at the Department of Economics, Norwegian University of Life Sciences. His main research topic is environmental valuation, with applications to ecosystem services and biodiversity, externalities of renewable energy, recreation, climate induced extreme events, oil pollution and marine ecosystems, cultural heritage, environmentally related health impacts and transportation noise. He has conducted about fifty original contingent valuation, choice experiments, hedonic price, and travel cost studies in Europe, Latin America, Asia, Africa and the Middle East, and has worked extensively on benefit transfer. He has published about 50 journal articles and edited the books Pricing the European Environment (Oxford University Press, 1992), Valuing Cultural Heritage (Edward Elgar, 2002) and Environmental Value Transfer: Issues and Methods (Springer, 2007).

Arwin Pang received her PhD in Public Finance from National Chengchi University, Taiwan in 2008. Her dissertation comprises three essays about environmental economics including examining Environmental Kuznets Curve in Mainland China, the health effect of green tax reform and the optimal second-best environmental tax rate in the presence of pre-existing distortions by taxing emissions. She is a Research Associate who works with Professor Jeffrey Englin at the Department of Resource Economics, University of Nevada, Reno. Her research interests are public finance, applied econometrics and non-market valuation.

Gregory L. Poe is a Professor of Environmental and Resource Economics in the Department of Applied Economics and Management at Cornell University. His present appointment involves research and teaching in environmental economics and policy, and his corresponding research program focuses on applied welfare economics, non-market valuation, experimental economics and water pollution policy. While much of his work involves policy relevant field research, in recent years he has also worked extensively on developing and evaluating public goods provision mechanisms in experimental economics laboratory settings. He has published over forty journal articles in economics, public economics, environmental economics and agricultural economics journals, and is the co-editor of the book, The Economic Value of Water Quality (Edward Elgar, 2001).

Pere Riera is Professor in Applied Economics at the Autonomous University of Barcelona, Spain. His research is in the area of environmental economics and policy, and non-market valuation.

John Rolfe is a resource economist who has specialized in the use of choice modelling and other non-market valuation techniques. He is Professor in
the Faculty of Arts, Business, Informatics and Education and the Director of the Centre for Environmental Management at the CQ University in Australia. John has a number of research interests, including regional development, environmental, resource and agricultural economic issues, resource tradeoffs and economic impact assessment in regional areas. His location in Rockhampton, Queensland, means that he is closely involved with many issues relevant to northern Australia and the tropics.

**John M. Rose** is Associate Professor in Transport and Logistics Management at the Institute of Transport and Logistics Studies, The University of Sydney. John’s research expertise lies in the areas of discrete choice modelling, advanced econometric modelling and efficient stated choice experiments. John has published in the fields of marketing, transportation and health economics as well as environmental economics.

**Eric T. Schultz** is an Associate Professor in the Department of Ecology and Evolutionary Biology at the University of Connecticut. He earned his PhD in 1990, in Aquatic and Population Biology within the Department of Biological Sciences at the University of California, Santa Barbara, and was awarded a two-year Coastal Marine Scholar Post-doctoral Fellowship at the Marine Sciences Research Center, State University of New York at Stony Brook. Professor Schultz teaches undergraduate courses in introductory biology, physiological ecology of animals and biology of fishes. His research encompasses the population biology, evolutionary ecology and physiological ecology of fishes. His particular areas of expertise include: life history strategies, particularly evolutionary responses to seasonal environments; advection of marine fish larvae and recruitment patterns in oceanic and estuarine systems; evolution of intermittent organs in live-bearers; evolution of osmoregulatory systems. He has received research funding from the National Science Foundation, the Environmental Protection Agency, Sea Grant, private foundations and the State of Connecticut.

**Kathleen Segerson** is Philip E. Austin Professor of Economics at the University of Connecticut. She holds a BA in mathematics from Dartmouth College and a PhD in agricultural and resource economics from Cornell University. She is a fellow of the Association of Environmental and Resource Economists (AERE) and of the American Agricultural Economics Association, and is immediate past-president of AERE. She is also a member of the Chartered Board of the US Environmental Protection Agency’s Science Advisory Board (SAB) and the Board on Agriculture and Natural Resources for the National Academy of Sciences. Dr Segerson’s research focuses on the incentive
effects of alternative environmental policy instruments, with emphasis on the application of legal rules and principles to environmental problems. Specific research areas include: the impact of legal liability for environmental damages in a variety of contexts, including groundwater contamination, hazardous waste management and workplace accidents; land use regulation and the takings clause; voluntary approaches to environmental protection; the impacts of climate change on US agriculture; and incentives for nonpoint pollution control.

V. Kerry Smith is a Professor of Economics at the W.P. Carey School of Business, School of Sustainability and School of Geographical Sciences and Urban Policy, Arizona State University. He is a University Fellow at Resources for the Future and a Research Associate at the National Bureau of Economic Research. Smith is a member of the National Academy of Sciences. His current research has two components: (a) the development of methods to estimate consistently the role of environmental resources in household choice using the properties of market equilibrium; and (b) then using these results to incorporate environmental services into static and dynamic general equilibrium models.

Jon Strand is Senior Economist in the Development Research Group, Environment and Energy Team, at the World Bank in Washington, DC. His work area is environmental and energy economics, focusing on climate-related issues. He also holds (and is currently on leave from) a chair as Professor of Economics at the University of Oslo. Within the fields of environmental, resource and energy economics, his main topics for research have been environmental valuation using both non-market and market methods, including the valuation of statistical life; natural resource issues focusing on developing countries; and environmental policy design issues including environmental taxation and climate policy. He has published widely, with about sixty published articles in international economics journals. He has served as consultant for the Organisation for Economic Co-operation and Development (OECD), the World Bank, the Inter-American Development Bank and various Norwegian government agencies, on environmental policy matters. During 2005–08, he worked in the Fiscal Affairs Department of the International Monetary Fund (IMF), as its environmental economist.

Paul J. Thomassin is an Associate Professor of Agricultural and Environmental Economics in the Agricultural Economics Program in the Department of Natural Resource Sciences at McGill University. He is also an Associate Member of McGill’s School of Environment, is a Research Fellow at the Center for Interuniversity Research and Analysis
of Organizations (CIRANO) with the Experimental Economics Group and was a Visiting Professor at the William S. Richardson School of Law at the University of Hawaii, Visiting Fellow at the National Centre for Development Studies at the Australian National University and Honorary Professor in the Division of Science and Technology at the University of Auckland. Professor Thomassin’s research includes: the non-market valuation of the environment and benefit transfer, macroeconomic and environmental impacts of economic development; consumer perceptions of food, agriculture, health and the environment; the integration of economic and biological models of agricultural systems; and the convergence of agriculture and health policies to address problems with chronic disease. He is currently a member of the editorial board of the Canadian Journal of Agricultural Economics.

Dugald Tinch is a post-doctoral researcher within the Environmental Economics Research Group at the University of Stirling, where he also studied for his PhD. His main research interests are in the valuation of ecosystem services. He has also worked on the economics of climate change and on water quality issues.

Pieter van Beukering is Associate Professor in Environmental Economics at the Institute for Environmental Studies, VU University Amsterdam. His main research interests are economic valuation, natural resource management, solid waste management, poverty and environment. Most of his work is conducted in developing countries. His current research efforts focus predominantly on the economics of ecosystem services and the role of renewable energy in developing countries.

Christian A. Vossler is an Associate Professor in the Department of Economics at the University of Tennessee-Knoxville. His main research interests are in environmental and resource economics, public economics, experimental economics and applied econometrics. Within environmental economics, much of his research focuses on non-market valuation methods, with special attention on mechanism design and validity issues related to survey-based valuation methods; and environmental regulation, with emphasis on regulatory compliance and the development of policy instruments for controlling non-point source pollution. He has published in leading environmental economics and general interest journals, including Journal of Public Economics, Journal of Environmental Economics and Management, Journal of Economic Behavior and Organization and American Journal of Agricultural Economics. Recent funding for his research has come from the US EPA and the Internal Revenue Service (IRS).
Contributors

Xuehong Wang was Post-doctoral Fellow with the Crawford School of Economics and Government of the Australian National University at the time the chapter contained in this book was drafted. Her research interests extend across environmental and natural resource management, valuation of environmental goods and services, climate change mitigation and adaptation, and land use policy. Currently she is based in Bonn working at the Secretariat of the United Nations Framework Convention on Climate Change.