

SANDEE- Summer School in Environmental and Natural Resource Economics
30 April – 17 May 2018, AIT CC, Thailand
(Application Submission Deadline: Closed)

Course Description

The three-week SANDEE Summer School 2018 on Environmental and Natural Resource Economics will cover issues in natural resource management, environmental economics, sustainable development, and climate change. The natural resource management module focuses on renewable resources, such as fisheries, forestry, and non-renewable resources. Environmental economics module covers issues such as externalities and market failures, non-market valuation of environmental goods and environmental damage assessment, energy and climate change, sustainability and green accounting, and common property resources and institutions. Participants will be exposed to theoretical issues and economic tools for analyzing environmental and resource problems in developing countries.

Modules

The Summer School course is divided into seven different modules.

1. *Module One* is a review of optimization (static and dynamic) and mathematical tools (differential and integral calculus) that are frequently used in resource and environmental economics.
2. *Module Two* is on natural resource economics (non-renewable, fisheries and forestry). This module introduce open access as well as public good nature of the natural resources where collective action is needed for sustainable management.
3. *Module Three* will cover special topics in environmental economics, such as, welfare measurement and inclusive national accounts, externalities, property rights and institutions, common property resources, and fertility behavior and gender.
4. *Module Four* will cover energy economics, causal inferences in energy and environmental economics, the economics of climate change, and machine learning and forecasting in environmental economics.
5. *Module Five* will focus on non-market valuation techniques for valuing environmental goods and services.
6. *Module Six* will cover empirical environmental economics including hands-on training on statistical software STATA.
7. *Module Seven* is exclusively related to research concept notes presentation by the participants, where resource persons will provide feedback. Participants are required to develop a research concept notes and present at the end of the course. Final two days are devoted for this activity.

Each module consists of lecture sessions, generally followed by policy discussions/assignments or presentations by the participants. The Summer School participants will review and present various empirical papers intermittently throughout the workshop. From these sessions, participants will learn how to do empirical research in environmental economics on their own.

Organization

Mani Nepal (Program Coordinator SANDEE) is the course director and Neesha Pradhan (Program Associate SANDEE) is the course coordinator. AIT CC will provide administrative support during the Summer School.

South Asian Network for Development
and Environmental Economics
GPO Box 8975, EPC 1056, Lalitpur, Nepal
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Fax: +977-1-5275238
www.icimod.org/sandee
www.sandeeonline.org

ECONOMICS & THE ENVIRONMENT

Core Faculty

The Summer School Core faculty include the following prominent scholars in environmental and resource economics:

[Maximilian Auffhammer](#) is the George Pardee Jr. Professor of International Sustainable Development and Associate Dean in the Division of Social Sciences at UC Berkeley. He received his Ph.D. in economics from UC San Diego. His research focuses on environmental and resource economics, energy economics and applied econometrics. He is a lead author for the Intergovernmental Panel on Climate Change (IPCC). Prof. Auffhammer serves as Co-Editor of the Journal of the Association of Environmental and Resource Economists and he is the recipient of the 2007 Cozzarelli Prize awarded by the National Academies of Sciences, and the 2007 Sarlo Distinguished Mentoring Award.

[Randall Bluffstone](#) is Professor of Economics and Director of the Institute for Economics and the Environment at Portland State University. His research and teaching interests focus on environmental and resource economics, including climate change, energy, pollution control and deforestation in low-income countries. Professor Bluffstone is associate editor of the journal *Forest Economics*, a research associate of the Environment for Development (EFD) Initiative and co-coordinates the EFD Forest Collaborative. In 2017-2018 Bluffstone was a Fulbright Senior Scholar in Nepal. Prior to coming to Portland State, he taught at the University of Redlands and until September 1999 was deputy director of the International Environment Program at the Harvard Institute for International Development (HIID) at Harvard University. While at Harvard, Bluffstone directed HIID's environmental policy program in Central Asia and from 1994 to 1997 served as senior environmental policy advisor to the Government of Lithuania. Randall Bluffstone received his Ph.D. in economics from Boston University in 1993 and from 1983 to 1985 was a Peace Corps volunteer in Nepal.

Sir **[Partha Dasgupta](#)** is the Frank Ramsey Professor Emeritus in Economics at Cambridge University. He has also taught at the London School of Economics and Stanford University. Among many important appointments, Sir Partha has the honor of being the first economist to be elected as a fellow of the Royal Society. In 2007, he received the John Kenneth Galbraith Award from the American Agricultural Economics Association, and Tylor Prize for environmental achievement in 2016 among others. Prof. Dasgupta is a co-founder of SANDEE, and also an ex-chair of SANDEE's Management and Advisory Committee.

[Enamul Haque](#) is Professor at East-West University, a private university in Dhaka, Bangladesh, and Executive Director, Asian Center for Development. He has a Master's degree in Economics as well as in Agricultural Economics. He completed his doctoral degree from the University of Guelph, Ontario, Canada in Natural Resource Economics. Professor Haque has been a SANDEE research advisor for many years, and a current member of SANDEE Steering Committee.

[Mani Nepal](#) is SANDEE Program Coordinator and Lead Economist at ICIMOD. He manages SANDEE's research activities, co-ordinates trainings, and provides technical supports to the SANDEE researchers. Earlier, he worked as Associate Professor at Tribhuvan University, Assistant Professor at the University of New Mexico, Visiting Faculty at Kathmandu University, Adjunct Professor at Agriculture and Forestry University, and held Senior Economist position at the Department of Finance and Administration, Santa Fe, New Mexico. He has a MS degree in Policy Economics from the University of Illinois at Urbana-Champaign and doctoral degree from the University of New Mexico, USA, in Environmental/Development Economics and Applied Econometrics.



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There will be several additional resource persons including Dr. AnnaKarin Norling (Senior Research Advisor, Embassy of Sweden), Dr. Heman Das Lohano (Professor at Institute of Business Administration, Karachi), Dr. Pranab Mukhopadhyay (Professor at Goa University), Dr. Shobhakar Dhakal (Associate professor at AIT), and Dr. Orapan Srisawalak (Sukhothai Thammatirat open university, Thailand). The aim of bringing guest speaker is to provide wider exposure to the participants in contemporary research tools and issues related to environmental and resource economics.



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