



The Centre for Environmental Economics and Policy in Africa
University of Pretoria

**CEEPA'S TENTH BIENNIAL RESEARCH WORKSHOP UNDER THE ENVIRONMENTAL
ECONOMICS CAPACITY BUILDING PROGRAMME**

**Funded by the Swedish International Development Cooperation Agency (SIDA) and IDRC, Canada
15 – 20 November 2010, Hyatt Regency Hotel Oubaai, George, South Africa**

The Centre for Environmental Economics and Policy in Africa (CEEPA) is mandated to enhance the capacity of African researchers to conduct environmental economics and policy inquiry of relevance to African problems and increase the awareness of environmental and economic managers and policy makers of the role of environmental economics in sustainable development. Under funding from the Swedish International Development Cooperation Agency (SIDA), and International Development Research Centre (IDRC-Canada), CEEPA will be awarding research grants on a competitive basis annually. Eligible candidates include all African researchers working on Africa in the field of environmental economics. The November 2010 workshop in South Africa is the tenth workshop under this programme.

Day One	Monday 15 November 2010
08:45 - 09:00	Registration and opening of the workshop Margaret Mabugu Project Coordinator: CEEPA
09:00 - 09:30	Chairperson: Edwin Muchapondwa Plenary session: Interim report presentation <i>Are less skillful fishers more likely to fish illegally? Technical efficiency and violation of fishing regulations in Ghana</i> Wisdom Akpalu, Farmingdale State College, State University of New York
09:30 - 09:35	Discussant: Joshua Ajetomobi
09:35 - 10:00	Floor discussion
10:00 - 10:30	Morning refreshments
10:30 - 11:00	Plenary session: Final report presentation: <i>Impact of climate change on rice agriculture in Nigeria</i> Joshua Ajetomobi, Ladoko Akintola University of Technology, Nigeria
11:00 - 11:05	Discussant: Wisdom Akpalu
11:05 - 11:30	Floor discussion
11:30 - 12:00	Plenary session: New Proposal Presentation (1) <i>A game model of people's participation in community forestry management in south eastern Nigeria</i> William Fonta, University of Nigeria
12:00 - 12:25	Floor discussion
12:30 - 13:30	Luncheon
13:30 - 14:00	Plenary session: New proposal presentation (2) <i>The determinants of co2 emissions: evidence from Southern Africa</i> Emmanuel Ziramba, University of South Africa
14:00 - 14:20	Plenary session: New proposal presentation (3) <i>Risk Aversion in the Uptake of New Farming Practices: Experimental Evidence from SA</i> Kerri Brick, University of Cape Town



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- 14:20 - 14:40 Plenary session: **New proposal presentation (4)**
The Scope for Rainfall-Based Index Insurance as Adaptation to Climate Variability and Change for Smallholder Subsistence Farmers in Ethiopia
Ayalneh Bogale, College of Agriculture and Environmental Sciences, Haramaya University, Ethiopia
- 14:40 - 17:00 Resource Persons meeting
- 16:00 - 16:30 Afternoon refreshments

Afternoon free for other researchers to work on reports

End of Day One

Day Two

Tuesday 16 November 2010

Chairperson: Joe Cook

- 08:30 - 08:50 Plenary session: **New proposal presentation (5)**
Sustainable livelihood and natural resource management in Nigeria
Felix Olorunfemi, Nigerian Institute of Social and Economic Research (NISER)
- 08:50 - 09:15 Floor discussion
- 09:15 - 09:35 Plenary session: **New proposal presentation (6)**
The impacts of improved crop varieties on climate change adaptation and vulnerability reduction in Malawi
Robertson Khataza, International Institute of Tropical Agriculture, Malawi
- 09:35 - 10:00 Floor discussion
- 10:00 - 10:30 Morning refreshments
- 10:30 - 10:50 Plenary session: **New proposal presentation (7)**
Impact of Cameroon household water quality and the cost effectiveness in childhood diarrhoea reduction
Ndam Romanus Adze, University of Dschang, Cameroon
- 10:50 - 11:15 Floor discussion
- 11:15 - 11:35 Plenary session: **New proposal presentation (8)**
How valuation of protected areas services can help to finance their management and sustainable use: Case of Pendjari Biosphere Reserve in Benin (West Africa)
Fifanou Vodouhe, University of Abomey-Calavi, Benin
- 11:35 - 12:00 Floor discussion
- 12:00 - 12:20 Plenary session: **New proposal presentation (9)**
Soil conservation and farm level productivity in south western Nigeria: a switching regression model
Joshua Ajetomobi, Ladoke Akintola University of Technology, Nigeria
- 12:20 - 12:45 Floor discussion



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12:45 - 13:45	Luncheon
13:45 - 16:00	Resource Persons meeting
16:00 - 17:30	Individual consultations with all Resource Persons at conference venue: Chairperson: David Starrett, Stanford University, USA Each session is divided in 10 minutes summary of comments and responses by the researchers, and 20 minutes discussion from Resource Persons
15:30 - 16:00	Afternoon refreshments
16:00 - 16:30	Wisdom Akpalu (Final)
16:30 - 17:00	Joshua Ajetomobi (Interim)
17:00 - 17:30	William Fonta (New)

Afternoon free for all other researchers to work on their reports and proposals

End of Day Two

Day Three

Wednesday 17 November 2010

08:30 - 11:00	Individual consultations with all Resource Persons at conference venue: Each session is divided in 10 minutes summary of comments and responses by the researchers, and 20 minutes discussion from Resource Persons Chairperson: Marty Luckert, University of Alberta, USA
08:30 - 09:00	Emmanuel Ziramba (New)
09:00 - 09:30	Kerri Brick (New)
09:30 - 10:00	Ayalneh Bogale (New)
10:00 - 10:30	Felix Olorunfemi (New)
10:30 - 11:00	Morning refreshments
11:00 - 11:30	Robertson Khataza (New)
11:30 - 12:00	Ndam Romanus Adze (New)
12:00 - 12:30	Fifanou Vodouhe (New)
12:30 - 13:00	Joshua Ajetomobi (New)
13:00 - 13:15	Closing of workshop: Rashid Hassan
13:15 - 16:30	Resource Persons meeting



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13:15 - 14:15 Luncheon
15:30 - 16:00 Afternoon refreshments

Afternoon free for researchers

End of Day Three

Days Four, Five, Six Thursday 18 November, Friday 19 November, Saturday 20 November 2010

09:00 - 10:30 Plenary session: Training on Social Capital, Ecosystems as collective assets and common property rights

Prof Karl-Göran Mäler and Prof Partha Dasgupta

10:30 - 11:00 Morning refreshments

11:00 - 13:00 Plenary session: Training on Social Capital, Ecosystems as collective assets and common property rights

Prof Karl-Göran Mäler and Prof Partha Dasgupta

13:00 - 14:00 Luncheon

14:00 - 15:30 Plenary session: Training on Social Capital, Ecosystems as collective assets and common property rights

Prof Karl-Göran Mäler and Prof Partha Dasgupta

15:30 - 15:45 Afternoon refreshments

15:45 - 17:00 Plenary session: Training on Social Capital, Ecosystems as collective assets and common property rights

Prof Karl-Göran Mäler and Prof Partha Dasgupta

Prof Karl-Göran Mäler and Prof Partha Dasgupta will teach a 3 day course following CEEPA's November 2010 biannual research workshop in South Africa. The following 8 themes will be discussed and covered during the 3 day training period:

- Theme 1: Ecology and ecosystems and their dynamics;
- Theme 2: Externalities and common property resources;
- Theme 3: Social capital and institutions;
- Theme 4: Modelling ecosystem services and non-convexities;
- Theme 5: Time and the generations;
- Theme 6: Wealth and sustainable development;
- Theme 7: Accounting prices and valuation;
- Theme 8: Fertility and demographic trends.

The following readings were circulated electronically to all training participants:

- Theme 1:
- a. Millennium Assessment Synthesis Report
 - b. Accounting for Ecosystems
 - c. Ecosystems (Perrings)

- Theme 2:
- a. Common Property Resources: Economic Analytics (Partha Dasgupta);



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- b. Poverty Traps (Partha Dasgupta);
 - c. Chapter 6 Natural Capital as Economic Assets;
 - d. Chapter 10 Sustainable and Optimum Development
- Theme 3: The Economics of Social Capital (Partha Dasgupta)
- Theme 4: a. Economics of non convex ecosystems (Mäler and Dasgupta)
b. Environmental and Resource Economics (Mäler and Dasgupta)
- Theme 5: Discounting Climate Change (Partha Dasgupta)
- Theme 6: a. Wealth and Sustainable development (Arrow, Mäler and Dasgupta)
b. Environmental and Resource Economics (Mäler and Dasgupta)
- Theme 7: a. Accounting and Valuation (Arrow et al)
b. Evaluating Projects and Assessing Sustainable Development in Imperfect Economies
c. On the value of resilience in a dynamic economy-environment system (Mäler et al)
- Theme 8: a. Transitions in Population, Human Wellbeing and Environmental Change (John Bongaarts)
b. Reproductive Externalities (Partha Dasgupta)

Biosketch of Course Instructors:

Sir Partha Dasgupta: Biographical Note

Partha Dasgupta, was born in Dhaka (at that time in India) and educated in Varanasi (Matriculation 1958 from Rajghat Besant School), Delhi (B.Sc. Hons, in Physics, 1962, University of Delhi), and Cambridge (B.A. Hons. in Mathematics, 1965, and Ph.D. in Economics, 1968) at the University of Cambridge). He is the son of the noted economist Amiya Dasgupta (1903-1992). He is married to Carol Dasgupta, who is a psychotherapist. They have three children: Zubeida Dasgupta-Clark (an educational psychologist), Shamik (a philosophy professor), and Aisha (who works on reproductive health in poor countries).

Dasgupta is Frank Ramsey Emeritus Professor of Economics at the University of Cambridge; Fellow of St John's College; Cambridge, Honorary Fellow of Trinity College, Cambridge; and Professor of Environmental and Development Economics at the University of Manchester. He taught at the London School of Economics during 1971-1984 and moved to the University of Cambridge in 1985 as Professor of Economics, where he served as Chairman of the Faculty of Economics in 1997-2001. During 1989-92 he was also Professor of Economics, Professor of Philosophy, and Director of the Program in Ethics in Society at Stanford University; and during 1991-97 he was Chairman of the (Scientific Advisory) Board of the Beijer International Institute of Ecological Economics, Stockholm. Since 1999 he has been a Founder Member of the Management and Advisory Committee of the South Asian Network for Development and Environmental Economics (SANDEE), Kathmandu. In 1996 he helped to establish the journal *Environment and Development Economics*, published by Cambridge University Press, whose purpose has been not only to publish original research at the interface of poverty and the environmental-resource base, but also to provide an opportunity to scholars in developing countries to publish their findings in an international journal.

Professor Dasgupta's research interests have covered welfare and development economics, the economics of technological change, population, environmental and resource economics, the theory of games, the economics of undernutrition, and the economics of social capital. His publications include *Guidelines for Project Evaluation* (with S.A. Marglin and A.K. Sen; United Nations, 1972), *Economic Theory and Exhaustible Resources* (with G.M. Heal; Cambridge University Press, 1979 (recipient of the United States Association of Environmental and Resource Economists "Publication of Enduring Quality Award 2003")); *The Control of Resources* (Harvard University Press, 1982); *An Inquiry into Well-Being and Destitution* (Clarendon Press, Oxford, 1993); *Human Well-Being and the Natural Environment* (Oxford University Press, 2001; revised edition, 2004); and *Economics: A Very Short Introduction* (Oxford University Press, Oxford, 2007).

Professor Dasgupta is a Fellow of the Econometric Society (1975), Fellow of the British Academy (1989), Fellow of the Royal Society (2004), Member of the Pontifical Academy of Social Sciences (1997), Fellow of the Third World Academy of Sciences (2001), Member of Academia Europaea (2009); Foreign Member of the Royal Swedish Academy of Sciences (1991), Foreign Honorary Member of the American Academy of Arts and Sciences (1991), Foreign Associate of the US National Academy of Sciences (2001), Foreign Member of the American Philosophical Society (2005), Foreign Member of Istituto Veneto di Scienze, Lettere ed Arti (2009); Honorary Fellow of the London School of Economics (1995), Honorary Fellow of Trinity College, Cambridge (2010); Honorary Member of the American Economic Association (1997), Honorary Professor at the University of Copenhagen (2008-2010), and Andrew D. White Professor-at-Large (2007-2013) at Cornell University. He is a past President of the Royal Economic Society (1998-2001), the European Economic Association (1999), Section F (Economics) of the BA (British Association for the Advancement of Science) Festival of Science (2006), and President of the European Association of Environmental and Resource Economists (2010-11). Professor Dasgupta was named Knight Bachelor by Her Majesty Queen Elizabeth II in her Birthday Honours List in 2002 for "services to economics"; was co-winner (with Karl-Göran Mäler of the Beijer International Institute of Ecological Economics, Stockholm) of the 2002 Volvo Environment Prize and of the 2004 Kenneth E. Boulding Memorial Award of the International Society for Ecological Economics; and was the recipient of the John Kenneth Galbraith Award, 2007, of the American Agricultural Economics Association.

Prof Karl-Göran Mäler: Biographical Note

Karl-Göran Mäler is a Swedish economist, born in 1939, in Sollefteå, a small town close to the Arctic Circle. His academic career began in 1958 with the study of mathematics at the Stockholm University, and he obtained a BSc degree in 1962. He did his military service in 1963, and subsequently he was appointed junior lecturer at the Stockholm School of Economics in 1964. His Licentiate thesis on Optimal Growth was defended in 1968. In 1969, Erik Dahmén, in some ways the father of Environmental Economics in Sweden, and Assar Lindbeck obtained a grant from the Riksbank foundation to do research in resource economics. This period also marked the beginnings of Mäler's entry to environmental economics. A couple of years of intensive international activity followed. A Ford Foundation Grant enabled Mäler to visit the Massachusetts Institute of Technology and Stanford University in 1969-70. A successful visit to Resources for the Future, Washington DC, in 1971, included the completion of his thesis that autumn. The thesis was defended in 1973 and published in 1974 by Johns Hopkins University Press. It has long been out of print. The Association of Environmental Economics awarded Mäler for this publication with its prize "Publication of Enduring Quality" in 2008; Resources for the Future has decided in 2010 to reprint it because that book remains one of the classics in environmental economics. Also in 1974, Mäler was promoted to associate professor at the Stockholm School of Economics and to full professor the following year. In 1975 he was visiting professor at the University of New Mexico. In 1981 was elected member of the Royal Swedish Academy of Sciences. In 1989 he was a World Bank guest professor. Since 1991 he was the director at the Beijer Institute of Ecological Economics until 2007 when he retired. In 1993, the Beijer Institute, under the leadership of both Karl-Göran Mäler and Sir Partha Dasgupta, launched a Teaching Program in Environmental Economics to train the trainers, in developing countries. That effort resulted among other things in the creation of regional networks on the subject of Environmental Economics, in Asia (SANDEE), in Africa (RANESA) and in Latin America (LACEEP), and into the Beijer's Mäler Fellowship Program which brings to the Institute researchers from developing countries.

Widely recognized have been his contributions for the inclusion of Environment into the General Equilibrium Theory and to the theory of Environmental Valuation. His own scientific work across disciplines and his efforts for promoting scientific cooperation between Economist and Ecologist has been also a source of recognition; as it also has his work for Capacity Building in developed countries. His current research focuses mainly on Accounting for Ecosystems.

Mäler was awarded, in 1975, the Arnberg prize, by the Royal Swedish Academy of Sciences. In 1999, he received Doctor Honoris Causa of Haifa University. He was awarded together with Professor Sir Partha Dasgupta, with whom a long lasting academic cooperation has developed, the Volvo Environmental Price in 2002 and the Kenneth Boulding Award from the International Society of Ecological Economics (ISEE) in 2004. In 2005, Mäler was elected Fellow of the Association of Environmental Economics; also this year, Mäler was elected member of the Academy of Sciences for the Developing World (TWAS). Mäler received from the European Environmental Economics Association its Lifetime Achievement Award, given to those who have made outstanding contributions to scholarship, institutional development and communication and dissemination of ideas. Frank Convery the president of the association wrote for that occasion: "Karl-Göran has written what many regard as the definitive book in our field, and he has consistently provided the intellectual ballast to the subject of environmental economics that ensured it was taken seriously by the economics mainstream. It is difficult to overstate the importance of such intellectual accreditation. As Director of the Beijer Institute, he has encouraged the integration of ecology and economics, an intellectual stretch that many have thought about, a few have tried to bridge, but with limited success. His consistent leadership in this area provides this interface with a status, a precedent and a template that will yield great intellectual and practical dividends. At a personal level, his combination of intellectual rigour, humour and complete unpretentiousness as to rank or position make him great company, notwithstanding his unaccountable (to Irish sensibilities at least) culinary enthusiasm for putrid herring ('surströmming').