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Fondazione
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Enrico Mattei



The Beijer International Institute
of Ecological Economics -
The Royal Swedish
Academy of Sciences

Conference on **Theoretical Topics in Ecological Economics**

*Kastler Lecture Hall, ICTP - Trieste, Italy
February 10-21, 2003*

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General Information

[The Abdus Salam International Centre for Theoretical Physics - ICTP](#), [Fondazione Eni Enrico Mattei - FEEM](#) and [The Beijer Institute of Ecological Economics](#) are jointly organising an International Conference on "Theoretical Topics in Ecological Economics". The Conference will be held in the ICTP headquarters, from February 10th to February 21st, 2003.

The Conference will cover the following fields:

- Economics of dynamic ecological systems
- Non-market resource allocation mechanisms
- Construction of indicators of economic performance.

These seemingly unrelated fields are important for understanding the role of natural resources in the economic development of poor countries. Services generated by eco-systems are important for human well-being, but eco-systems most often lack property rights. These services are not traded on markets and their uses are instead determined by other resource allocation mechanisms. In order to design better management strategies, we need to know both the dynamic of the eco-systems and the resource allocation mechanisms. The first is studied by the use of mathematics of complex systems and the second by the use of game theory.

Because of the lack of property rights, eco-system services are not visible in traditional accounts. Thus the GNP, for example, will not include them. Today, more economists believe that the right way to include natural capital is by extending the concept of wealth. This, however, creates difficult problems with accounting prices and their estimation. This will be the third field of the Conference.

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Programme

❖ February 10th - Monday - Official Launch of the EEE Programme

8.30 – 9.15 REGISTRATION AND ADMINISTRATIVE FORMALITIES

9.15 – 9.30 ICTP WELCOME ADDRESS

Erio TOSATTI

Acting Director of ICTP - The Abdus Salam International Centre for Theoretical Physics, Italy

9.30 – 9.45 OPENING SESSION

Peter BRIDGEWATER

UNESCO - Director, Division of Ecological Sciences, Paris, France

9.45 – 10.30 EEE PROGRAMME PRESENTATION

9.45 -10.00

Partha DASGUPTA

The Beijer Institute, Sweden and University of Cambridge, UK

10.00 -10.15

Carlo CARRARO

Fondazione Eni Enrico Mattei and University of Venice, Italy

10.15 -10.30

Lucio DELCARO

Dean of the University of Trieste, Italy

10.30 - 11.00 Coffee break

11.00 – 12.30 ECONOMIC SESSION

Chair:

Karl-Göran MÄLER

The Beijer Institute and University of Stockholm, Sweden

11.00 -12.00

Robert SOLOW

M.I.T. - Massachusetts Institute of Technology, USA

Back to Backstop Technologies: Simpler than Sustainability

12.00 -12.30 **General Discussion**

12.30 – 15.00 Lunch



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15.00 – 18.30 ECOLOGY SESSION

Chair:

Partha DASGUPTA

The Beijer Institute, Sweden and University of Cambridge, UK

15.00 -16.00

Simon LEVIN

Princeton University, USA

Resiliency and Control in Complex Adaptive Systems: Managing ecological systems

16.00 -16.30 **General Discussion**

16.30 - 17.30 Welcome Cocktail

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❖ February 11th – Tuesday

8.30 – 10.30

Aart DE ZEEUW

Tilburg University, The Netherlands

The Economics of Shallow Lakes

10.30-11.00 Coffee break

11.00-13.00

Stephen CARPENTER

University of Wisconsin-Madison, USA

Ecological Economics of Lake Water Quality – Precaution and Mud

13.00 – 14.30 Lunch

14.30-16.30

Simon LEVIN

Princeton University, USA

Travelling in Space: Spatial Aspects of Ecological Dynamics

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❖ **February 12th – Wednesday**

8.30-10.30

Giulio DE LEO

University of Parma

The Economic Benefit of the Kyoto Protocol

10.30-11.00 Coffee break

11.00-13.00

Mukul MAJUMDAR

Cornell College of Arts and Sciences, USA

Chaotic Dynamics in Socio-Ecological Systems

13.00 – 14.30 Lunch

14.30-16.30

Arcadio CERDA

University of Talca, Chile

Chilean Experiences in Contingent Valuation Approach

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❖ **February 13th – Thursday**

8.30-10.30

Anne Sophie CREPIN

The Beijer Institute and University of Stockholm, Sweden

Management issues for Natural Resources Produced Within Complex Ecosystems

10.30-11.00 Coffee break

11.00-13.00

Partha DASGUPTA

The Beijer Institute, Sweden and University of Cambridge, UK

Population, Poverty, the Material Resource Base

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❖ **February 14th – Friday**

8.30-10.30

Kanchan CHOPRA

University of Delhi Enclave, India

Role of Non-Market Allocation: Theory and Empirical Evidence



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10.30-11.00 Coffee break

11.00-13.00

David STARRETT

Stanford University, USA

Dynamics of nonconvex systems, with applications to fisheries and shallow lakes

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❖ **February 17th – Monday**

8.30-10.30

Robert SCHOLLES

CSIR, South Africa

African Savannas as Non-Linear Systems

10.30-11.00 Coffee break

11.00-13.00

Anastasios XEPAPADEAS

University of Crete, Greece

Instabilities and Robust Control in Fishery Management

13.00-14.30 Lunch

14.30-16.30

Jack GOODY

Cambridge University, UK

Globalisation, fertility, economy and education

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❖ **February 18th – Tuesday**

8.30-10.30

Brian WALKER

CSIRO, Australia

Managing for resilience in social-ecological systems

10.30-11.00 Coffee break

11.00-13.00

Scott BARRETT

Johns Hopkins University, USA

Regional and Public Goods - I



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13.00-14.30 Lunch

14.30-16.30

Scott BARRETT

Johns Hopkins University, USA

Regional and Public Goods - II

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❖ **February 19th – Wednesday**

8.30-10.30

Scott BARRETT

Johns Hopkins University, USA

Regional and Public Goods – III

10.30-11.00 Coffee break

11.00-13.00

Scott BARRETT

Johns Hopkins University, USA

Economics of Infectious Diseases

13.00-14.30 Lunch

14.30-16.30

Jean Philippe PLATTEAU

Faculté Universitaires Notre Dame de la Paix, Belgium

Collective Action and Management of the Village Commons

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❖ **February 20th – Thursday**

8.30-10.30

Karl-Göran MÄLER

The Beijer Institute and University of Stockholm, Sweden

Wealth, Welfare and Sustainable Development

10.30-11.00 Coffee break

11.00-13.00

Sara ANIYAR

University of Zulia, Maracaibo, Venezuela

The Accounting Price for Oil

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❖ **February 21st – Friday**

8.30-10.30

Jeff VINCENT

University of California, San Diego, USA

Species-area relationships and bioprospecting values

10.30-11.00 Coffee break

11.00-13.00

Rashid M. HASSAN

University of Pretoria, South Africa

t.b.a.

13.00-14.30 Lunch

14.30-16.30

Charles PERRINGS

University of York, UK

Conservation and the Optimal Use of Rangelands

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Registering for the Conference

Participation is open and free of charge. Participants are kindly requested to register in advance sending an e-mail with name, surname, affiliation, address, telephone and fax numbers, and e-mail address to eee@ictp.trieste.it.

Electronic acknowledgements and confirmation of registrations will be sent to all participants. The acceptance of your registration is conditional on space availability. The deadline for registrations is February 6th.

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The Conference Venue

The Conference will be held in the Kastler Lecture Hall of the ICTP Guesthouse Adriatico Palace, at Via Grignano 9, Miramare-Trieste, Italy. Further information is available at <http://www.ictp.trieste.it>.

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Further Information about the Conference

Should you require further information about the Conference, please send an e-mail to eee@ictp.trieste.it.

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EEE - Ecological and Environmental Economics Programme

The Conference is organised within the "Ecological and Environmental Economics - EEE Programme", a joint programme of [ICTP](#), [FEEM](#) and [The Beijer Institute](#). The core aim of the EEE Programme is organise research and training activities with the final objective of enabling researchers from the developing countries to join the international academic network in the field of ecological and environmental economics.

The official launch of the Programme is scheduled for February 10th, the first day of the Conference.

This Programme activities will be advertised on the ICTP Website and through the Programme mailing list: if you wish to subscribe this list, please send an e-mail to eee@ictp.trieste.it with the subject as "subscribe".

For further information on the Programme, please refer to [Ms. Monica Eberle](#).

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