

Input Output Analysis is one of the most important tools economics can offer to researchers and policy makers interested in the actual structure and interdependencies of an economic system. The seminal contribution of Wassily Leontief was followed by many other innovative works in theory and application dealing with the structure of the productive system and with the cost-price-income distribution system. Piero Sraffa, Richard Stone, Richard Goodwin, all of Cambridge University (UK) should be recalled among the most distinguished economists working in this area of research. It is worthwhile also to remember that both Leontief (1974) and Stone (1984) got the Nobel prize. The Conference will certainly mention to the contribution of other economists.

After the initial interest by applied and theoretical economists up to the early 1970s, Input-Output Analysis subsequently came to be considered mainly as a field of statistical data collection and analysis. One important exception has been the application of Input-Output Analysis to environmental and energy problems, which has followed in the main a path distant from the mainstream theology of markets. Production, inter-industry relationships, and the price-distribution relationships associated with them, came to be overlooked as developed countries were asked to neglect their real economies and to focus on services and finance.

The recent world economic crisis has brought to evidence that productive structures are of central relevance, and that the real economy is essential to any economic system (country) that wants to keep a stable position in the system of international relations. In view of this, and of the increasing importance of environmental and energy aspects, the coming back of Input-Output Analysis to the centre stage of economic research should be expected. This is shown both by the important international projects of Input-Output applications that are being developed, and by the re-focusing of theoretical interest on input-output relationships and related aspects of economic systems and dynamics.

To encourage a comprehensive assessment of Input-Output research in the contemporary scenario Fondazione Edison has organized with Accademia dei Lincei the international conference 'The Structure of Economic Systems through Input-Output Applications'. The Conference programme was arranged by a Committee including Alberto Quadrio Curzio (chairman), Carlo D'Adda, Marco Fortis, Luigi Pasinetti, Roberto Scazzieri and Albert Steenge.



ACCADEMIA NAZIONALE DEI LINCEI

The National Lincei Academy is one of the most distinguished and ancient research institutions in Europe and had among its founding members Galileo Galilei.

The purpose of the Academy is to promote, coordinate, integrate and disseminate scientific knowledge. The Academy's activity is carried out along two principal lines: debating research and disseminating science.

Regarding the discussion of research activity, the Academy is mainly concerned with subjects of topical and social interest, and arranges national and international meetings involving leading scientists and scholars, who share the results of their research work.

Regarding dissemination, the Academy arranges meetings and events open to the wider public as well as specialised courses and seminars. It also promotes lecture series held by leading specialists in a variety of scientific and scholarly fields.

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FONDAZIONE EDISON

The Fondazione Edison, founded in Milan in 1999, has since the very beginning been involved in aspects concerning the dynamics of productive sectors, foreign trade and Research and Development from an Italian, European and international perspective.

Particular attention is paid to the relationships between small/medium and large enterprises, to those between communities and local development, and to phenomena related to infrastructures and globalization.

The Fondazione Edison promotes studies, researches, publications and events either autonomously or jointly with other institutions, and supports initiatives in line with its statutory aims.

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ROMA

21-22 OCTOBER 2010

Accademia Nazionale dei Lincei  
Palazzo Corsini  
Via della Lungara, 10

## The Structure Of Economic Systems Through Input-Output Applications

The International  
Perspective and Europe

Conference organized by

Accademia Nazionale dei Lincei  
Fondazione Edison

# PROGRAMME

## Thursday 21st October

14.00 Registration

14.30 Introductory speeches:

UMBERTO QUADRINO  
*President of Fondazione Edison*

ALBERTO QUADRIO CURZIO  
*President of the Class of Moral Sciences,  
Accademia Nazionale dei Lincei*

15.00 **First Section**

THE ROLE OF INPUT-OUTPUT FOR THE  
PROGRESS OF ECONOMIC ANALYSIS

*Chairman:* ROBERTO SCAZZIERI  
*(Università di Bologna)*

ALBERT STEENGE *(University of Groningen)*  
Input-Output as a toolbox for the analysis of  
economic systems: challenges in current research

FAYE DUCHIN  
*(Rensselaer Polytechnic Institute, Troy - NY)*  
The revolutionary potential of Input-Output  
economics for addressing the critical challenges of  
the early 21st century

16.40 **Second Section**

WORLD-WIDE PROJECTS OF INPUT-OUTPUT  
APPLICATIONS

*Chairman:* MOSHE SYRQUIN  
*(University of Miami)*

ROBERT STEHRER  
*(The Vienna Institute for International Economic Studies)*  
WIOD world Input-Output database: construction  
and applications

MAAIKE BOUWMEESTER  
*(University of Groningen)*  
EXIOPOL. Focusing on the environment in an  
integrated world

## Friday 22nd October

09.15 Registration

09.30 **Third Section**

THE UTILIZATION OF INPUT-OUTPUT APPLIED  
TO INDUSTRIAL ECONOMIC SYSTEMS AND TO  
TRADE

*Chairman:* ALBERT STEENGE  
*(University of Groningen)*

NADIM AHMAD *(OECD)*  
OECD work on measuring carbon dioxide emis-  
sions embodied in international trade

NORIIHIKO YAMANO *(OECD)*  
Fragmentation and changes in the trade network  
in Europe and rest of the world: application of  
OECD Input-Output database

ENRICO GIOVANNINI *(ISTAT)*  
The challenges of globalisation and sustainability  
for accounting systems: the Italian experience  
with integrated economic and environmental  
accounts

12.00 **Fourth Section**

THE UTILIZATION OF INPUT-OUTPUT APPLIED  
TO ENVIRONMENT AND SUSTAINABILITY ANALYSIS

*Chairman:* FAYE DUCHIN *(Rensselaer  
Polytechnic Institute, Troy - NY)*

THOMAS WIEDMANN  
*(Stockholm Environment Institute, University of York)*  
Recent developments and applications of Input-  
Output analysis in footprint accounting and sus-  
tainability analysis

ROBERTO ZOBOLI *(Università Cattolica di Milano)*  
GIOVANNI MARIN *(IMT Institute for Advanced  
Studies, Lucca)*  
MASSIMILIANO MAZZANTI *(Università di Ferrara)*  
ANNA MONTINI *(Università di Bologna)*  
Joining Input-Output and NAMEA: results and  
research directions

13.30 Break

14.45 **Round table**

THE COMPARISON AMONG THE MAIN INDUSTRIAL  
EUROPEAN ECONOMIES WITH MACRO-DATA AND  
THE SITUATION OF THE ITALIAN ECONOMY

*Chairman:* CARLO D'ADDA  
*(Università di Bologna)*

PATRIZIO BIANCHI *(Università di Ferrara)*

MARCO FORTIS  
*(Fondazione Edison e Università Cattolica di Milano)*

GIAN MARIA GROS-PIETRO *(Università Luiss Roma)*

PAOLO ONOFRI *(Università di Bologna)*

ALBERTO QUADRIO CURZIO  
*(Accademia Nazionale dei Lincei)*

→ Attendance is free of charge ▪ Registration is welcome  
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E' prevista la traduzione simultanea