

# MICHEL L. BALINSKI

Born: Geneva, Switzerland. United States citizen.  
Office : Laboratoire d'Économétrie, Département d'Économie,  
École Polytechnique  
91128 Palaiseau Cedex, France  
Tel.: 33 01 69 33 30 10  
e-mail: michel.balinski(at)polytechnique.edu  
Home: 92 chemin Harriague, Ile de Lahonce, 64990 Lahonce, France  
Tel.: 33 05 59 08 62 69

## EDUCATION

1950-1954 B.A. with Highest Honors, Mathematics, Williams College, Williamstown, Massachusetts  
1954-1956 M.S., Economics, Massachusetts Institute of Technology, Cambridge, Massachusetts  
1956-1959 Ph.D., Mathematics, Princeton University, Princeton, New Jersey

## POSITIONS

1954-1956 Research Assistant, Operations Research, Massachusetts Institute of Technology, Cambridge, Massachusetts  
1955 Consultant, Borden Mills, Inc., Kingsport, Tennessee and New York, New York  
1956-1959 Research Assistant and Assistant in Instruction, Mathematics, Princeton University, Princeton, New Jersey  
1959-1961 Mathematician, Mathematica, Inc., Princeton, New Jersey  
1960-1963 Research Associate and Lecturer, Mathematics, Princeton University, Princeton, New Jersey  
1960-1963 Consultant, RAND Corporation, Santa Monica, California  
1962-1969 Lecturer, University of Michigan Summer Engineering Conferences, Ann Arbor, Michigan

- 1962-1974 Senior Consultant, Mathematica, Inc., Princeton, New Jersey
- 1963-1965 Associate Professor, Economics and Wharton School, University of Pennsylvania, Philadelphia, Pennsylvania
- 1965-1969 Associate Professor, Mathematics, Graduate School and University Center, City University of New York, New York
- 1966-1969 Consultant, Mobil Oil Research Laboratories, Princeton, New Jersey
- 1969-1977 Professor, Mathematics, Graduate School and University Center, City University of New York, New York
- 1969-1970 Visiting Fellow, I.B.M. France, Paris
- 1971 Scientific Consultant, O.R.T.F. (Office de Radiodiffusion-Télévision Française), Paris
- 1972-1973 Professeur invité, Département de Mathématiques, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Suisse
- 1974-1975 Professeur associé (visiting Professor), Mathématiques Appliquées-Informatique, Université Scientifique et Médicale de Grenoble, Grenoble
- 1975-1977 Chairman, System and Decision Sciences, International Institute for Applied Systems Analysis, Laxenburg, Austria
- 1978-1980 Professor of Organization and Management and of Administrative Sciences, Yale University, New Haven, Connecticut
- 1978-1980 Senior Consultant, Econ, Inc., Princeton, New Jersey
- 1980-1982 Professeur, Institut Auguste Comte (to 1981) and Ecole Polytechnique, Paris
- 1983-1999 Directeur de Recherche (de classe exceptionnelle), C.N.R.S., Laboratoire d'Econométrie de l'Ecole Polytechnique, Paris
- 1983-1990 Leading Professor of Applied Mathematics and Statistics, and of Economics, State University of New York, Stony Brook, New York
- 1986-1989 Founder and Director, Institute for Decision Sciences, State University of New York, Stony Brook, New York
- 1989-1999 Directeur, Laboratoire d'Econométrie de l'Ecole Polytechnique, Paris
- 1989-1994 Co-founder and co-Director, D.E.A. et Formation Doctorale (Ph.D. program), *Modélisation et méthodes mathématiques en économie : optimisation et analyse stratégique*, Université de Paris 1 and Ecole Polytechnique.
- 1994 Visiting Professor, Departamento de Ingenieria Matematica, Universidad de Chile, Santiago, Chile

- 1995-1998 Co-founder and Co-Director, D.E.A. et Formation Doctorale (Ph.D. program), *Optimisation, jeux et modélisation en économie*, Université de Paris 6 (Pierre et Marie Curie), Université de Paris 10 (Nanterre) and Ecole Polytechnique.
- 1997-1998 Visiting Professor, Technology Management area, INSEAD, Fontainebleau, France.
- 1999- Directeur de Recherche (de classe exceptionnelle) émérite, C.N.R.S., Laboratoire d'Econométrie de l'Ecole Polytechnique, Paris

## **DISTINCTIONS**

Phi Beta Kappa 1954

Lanchester Prize of the Operations Research Society of America (INFORMS), 1965

I.B.M. World Trade Corporation Fellow, 1969-1970

Lester R. Ford Award of the Mathematical Association of America, 1975

Honorary Master of Arts, *Privatim*, Yale University, 1978

Special Service Award of the Mathematical Programming Society, 1982

President, Mathematical Optimization Society (formerly Mathematical Programming Society), 1986-1989

Honorary Doctorate, Mathematics (Ehrendoktors, Mathematisch-Naturwissenschaftlichen), Universität Augsburg, Germany, 2004

Murat Sertel Lecturer, inaugural lecture of 8<sup>th</sup> International Meeting of the Society for Social Choice and Welfare, Istanbul, July 2006

Messenger Lecturer, Cornell University, September 2007

IFORS Distinguished Lecturer, INFORMS, Washington, D.C., October 2008

George H. Hallett Award of the American Political Science Association, 2008

Lester R. Ford Award of the Mathematical Association of America, 2009

Celebration of Michel Balinski's 78 years, July 17-18 of the 23<sup>rd</sup> International Conference on Game Theory, Stony Brook, N.Y., July 15-19, 2012.

John von Neumann Theory Prize of INFORMS, 2013

Elected INFORMS Fellow, 2014

## PROFESSIONAL ACTIVITIES

INFORMS (formerly, Operations Research Society of America) 1962-

Member, Lanchester Prize Committee, 1974

Mathematical Programming Society 1970-

Member of Founding Committee

Member, Dantzig Prize Committee, 1984-1985

President, 1986-1989.

Associate Editor, *Journal of the Society for Industrial and Applied Mathematics*, 1968-1970

Department Editor, *Management Science*, 1968-1970

Editor-in-Chief (and Founder), *Mathematical Programming*, 1970-1980

Editor-in-Chief (and Founder), *Mathematical Programming Studies*, 1974-1980

Member, Operations Research Council, Advisory Board to the Mayor of the City of New York, 1968-1970

Member, Comité de Direction, Laboratoire d'Automatique et d'Analyse des Systèmes, Toulouse, 1976-1979.

Member, Advisory Committee on I.I.A.S.A., National Academy of Sciences, 1979-1982

Member, Advisory Board, *Journal of Conflict Resolution*, 1991 - 2005

Member, Editorial Board, *Mathematical Social Sciences*, 1993 - 1999

## CONSULTING ACTIVITIES

Consultant, Project Director or Principal Investigator for numerous applied mathematics, economics, policy analysis, operations research and management science projects undertaken for the public and private sectors in the United States, France, Italy, Canada, the United Kingdom, . . .

Among these are :

- Long term investment planning, inventory management and resource allocation for the oil industry.
- Statistical quality control for the textile industry.
- Long term planning with particular emphasis on the role of computerization and the value of information for production, for the aeronautical industry.
- Scientific consultant for the television program "Technologie du futur" shown on the "Vingtième siècle" series of TF 1 in 1971.

- Research and consulting for various industries including packaging, natural gas, food, heavy manufacturing, glass and chemical.
- Principal investigator of fundamental research projects in mathematics:
  - “On a class of nonlinear optimization problems,” Army Research Office (1962-1965);
  - “Exploratory research in mathematics,” Army Research Office (1965-1974);
  - “Axiomatization and optimization for apportionment and social objective functions,” National Science Foundation (1975-1981) ;
  - “On Monge-Kantorovich problems,” National Science Foundation (1989-1990).
- The development of pricing policies for agricultural commodities.
- Application of the theory of games to problems of national defense.
- Evaluation of large scale simulation and gaming programs of international affairs.
- The development of inventory policies for the United States Navy.
- The determination of electoral districts meeting standards of one person, one vote.
- The development of approaches to the allocation of research budgets.
- Devising equitable and economically efficient mechanisms for allotting take-off and landing rights (slots) at congested airports.
- Determining optimal postal distribution networks.
- Evaluating and simulating the effects of different apportionment methods for the Congressional Research Office.
- Reforming the French electoral system.
- Predicting hourly flows in the Paris sewage system as a function of rainfall.
- Expert witness, Conseil constitutionnel (France’s supreme constitutional court).
- Advisor on United Kingdom’s 2010 *Parliamentary Voting System and Constituencies Bill*.

## COLLABORATORS (articles, books and edited books)

Agar Adamson	Yacine Aït-Sahalia	Mourad Baïou	William J. Baumol
Frédéric Bon	Richard Cobb	Richard W. Cottle	Gabrielle Demange
David Gale	Ralph E. Gomory	Jaime Gonzalez	Eli Hellerman
Alan Hoffman	Andrew Jennings	Ron Johnston	Klaus Knorr
Rida Laraki	Claude Lemarechal	Thomas Liebling	Laurent Mann
Iain McClean	Oskar Morgenstern	A.-E. Nobbs	Guillermo Owen
Friedrich Pukelsheim	Richard E. Quandt	Svetlozar T. Rachev	Victoriano Ramirez
Guillaume Ratier	Fred J. Rispoli	Andrew Russakoff	Francis Sand
Niousha Shahidi	Martin Shubik	Tayfun Sönmez	Sylvain Sorin
Kurt Spielburg	Albert W. Tucker	Philip Wolfe	H. Peyton Young

