

23 gennaio, ore 18:00, presso la Residenza di Studi Superiori (Via M. Fantin 15, Bologna)

Lecture - **THE ECOLOGICAL AND ECONOMIC CONSEQUENCES OF GLOBAL CLIMATE CHANGE**

Prof. Marino Gatto,

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Abstract

First, I will briefly review the current knowledge on the increase of greenhouse gases, the alteration of the carbon cycle and the consequences for the past and future climate. Then I will describe the main effects of Global Climate Change (GCC) devoting special attention to the impacts on the distribution of animal and plant species and the functioning of ecosystems. Finally, I will discuss the different options for the mitigation of GCC, the relevant costs and benefits and the technological, social and economic feasibility of the environmental policies to be adopted.

CV Prof. Gatto

Born in 1949, Marino Gatto is Professor of Ecology, Faculty of Civil, Environmental and Land Engineering, Politecnico di Milano (associate professor in 1983, full professor in 1987). He teaches ecology in both the undergraduate and the graduate program of Environmental Engineering. His cultural background is engineering and mathematical modelling but his research has entirely focussed on ecology and management of renewable resources since 1974. In fact, the turning point of his career occurred in 1974 when he became a research fellow in the Ecology Group of IIASA (International Institute for Applied Systems Analysis), Laxenburg, Austria. In 1976 he joined the Institute of Animal Resource Ecology, University of British Columbia, Vancouver, Canada, for about one year to specialize in applied ecology.

M. Gatto has authored or coauthored more than 150 articles, a half of which have appeared in peer-reviewed journals. His current research interests include: dynamics and management of marine resources, models of fragmented populations, extinction risk assessment of wildlife populations, climate change ecology, parasite ecology, ecological economics.

M. Gatto has been a visiting scholar or professor at Vienna University (Austria), State University of New York at Stony Brook, Department of Ecology and Evolution (USA), Princeton University, Department of Ecology and Evolution (USA), Ecole Normale Supérieure, Département de biologie, Paris (France). Associate editor of Theoretical Population Biology, Ecology and Society, and *Biologia e Conservazione della Fauna*.

From 1991-1999 he was the chair of the Program in Environmental and Land Engineering, Politecnico di Milano. He is currently a member of the Academic Senate of the Politecnico di Milano. Marino Gatto was the president of the Italian Society of Ecology from 2003-2006.