



UNIVERSIDAD
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Seminar on Age-Structured Population Dynamics Models

Thursday, 02 November 2017, 11.00 h.

**Universidad Complutense de Madrid
Facultad de Ciencias Económicas y Empresariales
Sala de Tesis del Pabellón Central (Decanato)
Campus de Somosaguas, Pozuelo de Alarcón (Madrid)**



SEMINAR PROGRAMME

11.00-11.30

Age-structured models with a prescribed finite maximum age condition

Speaker: [Jesús Ildelfonso Díaz Díaz](#) (UCM)

11.30-11.45. Questions

11.45-12.15

Reference points in NAFO stocks: cod stocks case

Speaker: [Diana González Troncoso](#) (IEO and NAFO)

12.15-12.30. Questions

12.30-13.00

Equilibrium, collapse and extinction in age-structured models

Speakers: [José María Maroto Fernández](#) (UCM) and [Manuel Morán Cabré](#) (UCM)

13.00-13.15. Questions

13.15-13.45

The Ensemble Kalman Filter

Speaker: [María Eugenia Mera Rivas](#) (UCM)

13.45-14.00. Questions

SPEAKERS

Jesús Idefonso Díaz Díaz is Full Professor at the Dept. of Applied Mathematics at Complutense University of Madrid (UCM). He has published widely in many areas of Applied Mathematics, such as theoretical and applied aspects of nonlinear partial differential equations, and control theory models. He has also worked in nonlinear analysis tools, such as accretive operators, rearrangement, gradient estimates, etc. He is member of the Royal Academy of Sciences of Spain, and he created the Institute of Interdisciplinary Mathematics (IMI) at UCM. He was co-responsible of the Programme of Free Boundary Problems of the European Science Foundation. He was also coordinator of the European ITN project FIRS, funded in the FP7. Among other awards he received in 2015 the Grand Prix “Jacques-Louis Lions” de Mathématiques Appliquées de l’Académie des Sciences (France).

Diana González Troncoso (Degree in Mathematics, Universidad de Santiago) has been working in the Instituto Español de Oceanografía (IEO) since April 2001 as a technical research. Her main areas of interest are fisheries assessment and MSE development, marine ecology and survey indices. She is member of the NAFO Scientific Council, attending many meetings relating assessment, advice and management of stocks. She has been the Designated Expert for Div. 3M cod since 2009 using a VPA-type assessment model. She has published many Research Documents in NAFO and several reviewed publications in different Scientific Journals. She has been involved in several research projects funded by both National and International institutions.

José María Maroto Fernández is Associate Professor at the Dept. of Statistics and Operations Research II at Complutense University of Madrid (UCM). He is also member of the Institute of Interdisciplinary Mathematics (IMI) at UCM. He has published in marine resource economics, applied mathematics, ecological modeling, and ecological economics. His research interests include stochastic dynamic optimization, the danger of collapse of fish stocks, and population dynamics of collapsed fisheries. He has been involved in many research projects funded by both National and International institutions.

Manuel Morán Cabré is Honorary Professor at the Dept. of Economic Analysis at Complutense University of Madrid (UCM). He was Full Professor at the Dept. of Economic Analysis at UCM. He is also member of the Institute of Interdisciplinary Mathematics (IMI) at UCM. He has published widely in fractal geometry. He has also published widely in many areas of Applied Mathematics, such as nonlinear time series analysis, and fractal geometry. He has also published in marine resource economics, ecological modeling, and ecological economics. He has a large experience as responsible of many research projects. He has also involved in many research projects funded by International institutions.

María Eugenia Mera Rivas is Associate Professor in mathematics at the Dept. of Economic Analysis at Complutense University of Madrid (UCM). She has published widely in Applied Mathematics, in the areas of nonlinear time series analysis, and fractal geometry. Her research interests include marine resource economics, nonlinear time series, stochastic dynamic optimization, numerical methods, and fractal geometry. She has been involved in many research projects funded by both National and International institutions.

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