



**30TH IUGG
CONFERENCE ON
MATHEMATICAL
GEOPHYSICS**



**Mathematical Geophysics 2014
2-6 June 2014
Mérida, Yucatán, Mexico**

Local Organizing Committee

National Autonomous University of Mexico (UNAM)

Francisco J. Sánchez-Sesma (Conf. Chair) Engineering Institute
Fabián García-Nocetti (Program Co-Chair) Applied Math Institute
Graciela S. Herrera-Zamarrón (Program Co-Chair) Geophysics Inst
Ursula Iturrarán-Viveros (Program Co-Chair) School of Sciences
Juan José Perez-Gavilán (Finance Co-Chair) Engineering Institute

**Mathematical and Computational Modeling:
An international conference to honor**

Professor Ismael Herrera

Scientific Program

Sessions

1. Monday June 2, 2014

Computational seismology

Convener – Jacobo Bielak (Carnegie Mellon University)

Convener – Héctor Benitez (IIMAS, UNAM)

Opening Lecturer – Ismael Herrera (Geophysics Institute UNAM)

<http://mmc.igeofcu.unam.mx/iherrera>

2. Monday June 2, 2014

Four paradigms in predicting extremes: Legacy of Vladimir I. Keilis-Borok

Conveners

Alik Ismail-Zadeh, Karlsruhe Institute of Technology, Germany

Ilya Zaliapin, University of Nevada Reno, USA

Yehuda Ben-Zion, University of Southern California, USA

Invited speaker: George Molchan, Russian Ac. Sci., Russia

Invited speaker: Andrei Gabrielov, Purdue University, USA

<http://www.math.purdue.edu/~agabriel>

Invited speaker: Maxim Arnold, Russian Ac. Sci., Russia

Invited speaker: Antonella Peresan, University of Trieste, Italy

Invited speaker: Jorge Ramirez, National University of Colombia, Colombia

Invited speaker: Robert Shcherbakov, Western University, Canada

3. Tuesday June 3, 2014

Nonlinear phenomena in the climate system

Convener, Henk Dijkstra (Institute for Marine and Atmospheric research Utrecht - IMAU) H.A.Dijkstra@uu.nl

Chris Jones (Department of Mathematics, The University of North Carolina, USA)

Invited speaker: Mickael D. Chekroun (University of California, Los Angeles USA)

4. Tuesday June 3, 2014

Mathematical and numerical modeling of enhanced oil recovery

Convener – Luis Miguel de la Cruz (Geophysics Institute *UNAM*)

Convener – John Chen (University of Calgary)

Invited speaker: Dr. Renee Perez Rodriguez

<http://www.geochemicalengineering.com>

5. Wednesday June 4, 2014

Fluids, friction and rheology, in rocks and porous media

Convener - Renaud Toussaint (Univ. Strasbourg, France)

Convener – Graciela Herrera-Zamarrón (Geophysics Institute *UNAM*)

Invited speaker: Stefan Nielsen

Invited speaker: David Sparks

6. Wednesday June 4, 2014

Ambient seismic noise, diffuse fields and interferometry

Convener – Francisco Sánchez Sesma (Engineering Institute *UNAM*)

Convener – Michel Campillo (ISTerre, University J Fourier, Grenoble)

7. Thursday June 5, 2014

Field trip to Chichen-Itza (optional)

8. Friday June 6, 2014

Surface-atmosphere interaction

Convener Fabio D'Andrea (ENS, France)

Convener - Arón Jazcilevich Daimant (Atmospheric Sc. Center *UNAM*)

Invited speaker: Dr. Victor Brovkin from Max Planck Institute for Meteorology

<http://www.mpimet.mpg.de/en/staff/victor-brovkin.html>

Invited speaker: Sasha Madronich from National Center of Atmospheric Research

Information about the speaker can be found at: <http://acd.ucar.edu/~sasha/>

9. Friday June 6, 2014

Ocean vertical velocities: from dissipation scales to the global overturning circulation

Convener - Annalisa Bracco (Georgia Tech) web site www.o3d.org/abracco

Invited speaker: Andrew Poje <http://www.math.csi.cuny.edu/~poje/>