

Kinetic Equations: Modeling, Analysis and Numerics

A celebration of Irene M. Gamba's impact in modeling, analysis and numerical simulations of kinetic equations

September 18-22, 2017

**Institute for Computational Engineering and Sciences
The Blanton Museum of Art
The University of Texas at Austin**

Kinetic equations play vital roles in the modeling of physical systems ranging from gas dynamics, plasmas, semiconductor devices to biological and social sciences. The study of kinetic equations brings out rich mathematics and calls for special techniques from analysis, numerical analysis and scientific computing. The aim of this conference is to bring together junior and senior experts in all aspects of kinetic equations and provide the state of the art and most recent developments in the field.

During the conference, we will honor the 60th birthday of Dr. Irene M. Gamba, who has made fundamental contributions to the modeling, analysis and numerical simulations of kinetic equations.



INVITED LECTURES

Sona Akopian, UT Austin, USA
Ricardo Alonso, PUC-Rio de Janeiro, Brazil
Kazuo Aoki, National Taiwan U, Taiwan
Dieter Armbruster, Arizona State U, USA
Claude Bardos, U Paris VII, France
Alexandre Bobylev, KIAM, Russia
Mihai Bostan, Aix Marseille U, France
Luis Caffarelli, UT Austin, USA
Jose Cañizo, U of Granada, Spain
Thomas Chen, UT Austin, USA
Pierre Degond, Imperial College, UK
Bjorn Engquist, UT Austin, USA
Francois Golse, École Polytechnique, France
Thierry Goudon, INRIA, France
Yan Guo, Brown U
Jeff Haack, LANL, USA
Jingwei Hu, Purdue U, USA
Shi Jin, U of Wisconsin-Madison, USA
Armando Majorana, U di Catania, Italy
Peter Markowich, King Abdullah U, SA
Jose Morales Escalante, TU Vienna, Austria
Vlad Panferov, California State U, USA
Natasa Pavlovic, UT Austin, USA
Kui Ren, UT Austin, USA
Christian Ringhofer, Arizona State U, USA
Panagiotis Souganidis, U of Chicago, USA

Eitan Tadmor, U of Maryland, USA
Minh-Binh Tran, U of Wisconsin-Madison, USA
Lexing Ying, Stanford U, USA
Thaleia Zariphopoulou, UT Austin, USA

SCIENTIFIC COMMITTEE/ORGANIZERS

Jose A. Carrillo, Imperial College, U.K.
Yingda Cheng, Michigan State U, USA
Maria Gualdani, George Washington U, USA
Chi-Wang Shu, Brown U, USA
Alexis Vasseur, UT Austin, USA

CONFERENCE WEBSITE AND PROGRAM:

<http://www.ma.utexas.edu/kinet/>

Email contact: rgeorge@ices.utexas.edu

Applications for participation can be made through the [Online Application](#). Due to space limitations, these requests are subject to approval by the organizers

The activity is sponsored by the RNMS: Kinetic description of emerging challenges in multi-scale problems of natural Sciences (Ki-Net), College of Natural Sciences, Department of Mathematics, and ICES.

Funding is provided by NSF and ICES.

