

Applied PDEs in Physics, Biology and Social Sciences: Grants Available!

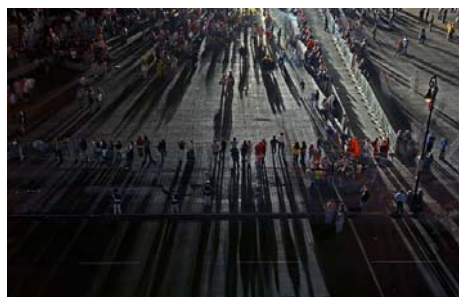
Senior and emerging researchers interested in areas of applied PDEs such as kinetic theory, transport equations in biology, reaction-diffusion systems, geometric flows, nonlinear conservation laws, fully nonlinear PDEs, multiscale problems, mean-field limits, are invited to apply. Interplay with classical disciplines such as Physics and Engineering as well as "modern" applications to cell and animal biology, physiology, nanotechnologies, traffic flow and pedestrian movement, ecology, sociology, evolution theory, economics and finance will be covered.

The conference is organised by the European Science Foundation (ESF) in partnership with the EMS and ERCOM and it will take place on **2-7 September 2012** at the **Centre de Recerca Matemàtica, Bellaterra, Spain**.

Application deadline 28 May 2012

Further information about how to apply can be found below and at www.esf.org/conferences/12388

Grants are available - Information about the fees will be available shortly



© *Applied Partial Differential Equations: A Visual Approach* by Markowich, Peter

Applied Partial Differential Equations in Physics, Biology and Social Sciences: Classical and Modern Perspectives
2-7 September 2012

Chaired by: Dr. Marco Di Francesco, Universitat Autònoma de Barcelona, ES
Co-chaired by: Professor José Antonio Carrillo de la Plata, ICREA & Universitat Autònoma de Barcelona, ES, on leave from Imperial College London, UK; **Professor Peter Markowich**, KAUST, Thuwal, KSA

Programme

The aim of this conference is to review latest advances in several sub-areas of applied PDEs such as kinetic theory, transport equations in biology, (nonlinear) reaction-diffusion systems, geometric flows, interplay between PDEs and game theory, PDEs arising from optimal transport, nonlinear conservation laws, fully nonlinear PDEs, variational PDEs, free boundary problems, multiscale problems. . [\[More\]](#)

Invited speakers will include

Andrea Bertozzi - University of California at Los Angeles, US | **Martin Burger** - University of Muenster, DE | **Eric Carlen** - Rutgers University, US | **Vicent Caselles** - Universitat Pompeu Fabra, Barcelona, ES | **Peter Constantin** - University of Chicago, US | **Camillo De Lellis** - University of Zurich, CH | **Laurent Desvillettes** - École normale supérieure, Cachan, FR | **François Golse** - Ecole polytechnique, Palaiseau, FR | **Ansgar Juengel** - Vienna University of Technology, AT | **Jian-Guo Liu** - Duke University, US | **Tai-Ping Liu** - Stanford University, US | **Pierangelo Marcati** - Università degli studi dell'Aquila, IT | **Robert McCann** - University of Toronto, CA | **Masayasu Mimura** - Meiji University, JP | **Benoit Perthame** - École Normale Supérieure, FR | **Alfio Quarteroni** - EPFL Lausanne, CH and Politecnico di Milano, IT | **Panagiotis Souganidis** - University of Chicago, US | **Angela Stevens** - University of Muenster, DE | **Eitan Tadmor** - University of Maryland at College Park, US | **Giuseppe Toscani** - University of Pavia, IT | **Juan Luis Vázquez** - Universidad Autónoma de Madrid, ES | **Juan J. L. Velázquez** - University of Bonn, DE

How to Participate

Attendance is possible only after successful application. Full conference programme and

application form accessible from www.esf.org/conferences/12388

A certain number of grants are available for students and early stage researchers to cover the conference fee and possibly part of the travel costs.

Closing date for applications: **28 May 2012**

Sponsor a Conference

This conference will be providing the opportunity for leading scientists and young researchers to meet for discussions on the most recent developments in their fields of research. We enable collaboration between international scientists from EU, first world and emerging countries which acts as a catalyst for creating new synergistic global contacts across disciplines.

We invite you to join us in harnessing this great potential, working towards an even more cohesive scientific force in Europe and beyond by contributing to our intense, dynamic and fun events.

If you are interested, please visit our Sponsor Resource Center page:
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