

# WORKSHOP ON DIFFERENTIAL EQUATIONS AND ITS APPLICATIONS

15-17 September 2004

Istanbul Technical University Macka Campus, Istanbul, Turkey

The workshop aims to bring together researchers working in the following areas: dynamical systems approach to differential equations; partial differential equations and their analysis; numerical methods for partial/ordinary differential equations. The topics that will be addressed include, but are not restricted to: PDE methods in calculus of variations, equations of compressible fluid dynamics, stability of shocks, conservation laws, lattice dynamical systems, numerical analysis as a means of extracting dynamics, spectral and pseudospectral methods for PDEs.

## Invited Speakers (confirmed):

C. Bardos	(University of Paris VII, France),
P. Constantin	(University of Chicago, USA),
M. G. Crandall	(University of Santa Barbara, USA),
L. C. Evans	(University of Berkeley, USA),
E. Feireisl	(Mathematical Institute, Academy of Sciences, CR),
I. Kevrekidis	(Princeton University, USA),
H. Kocak	(University of Miami, USA),
X. B. Lin	(North Carolina State University, USA),
J. Mallet-Paret	(Brown University, USA),
K. M. Mischaikow	(Georgia Technical University, USA),
L. Nirenberg	(NYU-Courant Institute, USA),
K. Palmer	(National Taiwan University, Taiwan),
H. M. Soner	(Koc University, Turkey),
E. S. Titi	(Weizmann Institute of Science, Israel),
L. N. Trefethen	(Oxford University, UK),
K. R. Zumbrun	(Indiana University, USA).

**Scientific Committee:** A. Askar (Koc University, Turkey), C. Bardos (University of Paris VII, France), P. Constantin (University of Chicago, USA), O. Celebi (Middle East Technical University, Turkey), H. Demiray (Isik University, Turkey), L. C. Evans (University of Berkeley, USA), E. Feireisl (Mathematical Institute, Academy of Sciences, CR), Y. Fu (Keele University, UK), D. Hoff (Indiana University, USA), M. Idemen (Isik University, Turkey), V. Kalantarov (Koc University, Turkey), H. Kocak (University of Miami, USA), J. Mallet-Paret (Brown University, USA), J. Shatah (NYU – Courant Institute, USA), H. M. Soner (Koc University, Turkey), A. Stuart (University of Warwick, UK), E. S. Suhubi (Yeditepe University, Turkey), E. S. Titi (Weizmann Institute of Science, Israel).

**Organizing Committee:** H. Demiray (Isik University, Turkey), A. Eden (Bogazici University, Turkey), H. A. Erbay (Istanbul Technical University, Turkey), H. Kocak (University of Miami, USA), J. Mallet-Paret (Brown University, USA).

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**Deadline:** A limited number of short presentations will be accepted, the deadline for abstract submission is July 15, 2004.

**Information:** <http://www.de2004.isikun.edu.tr>

The workshop is sponsored by the Scientific and Technical Research Council of Turkey, Isik University and Koc University and will be held under the auspices of Turkish National Committee of Theoretical and Applied Mechanics.



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