2004 CNA Summer School - Advances in Nonlinear Analysis

Center for Nonlinear Analysis (CNA)
Carnegie Mellon University
May 27 - June 5, 2004.
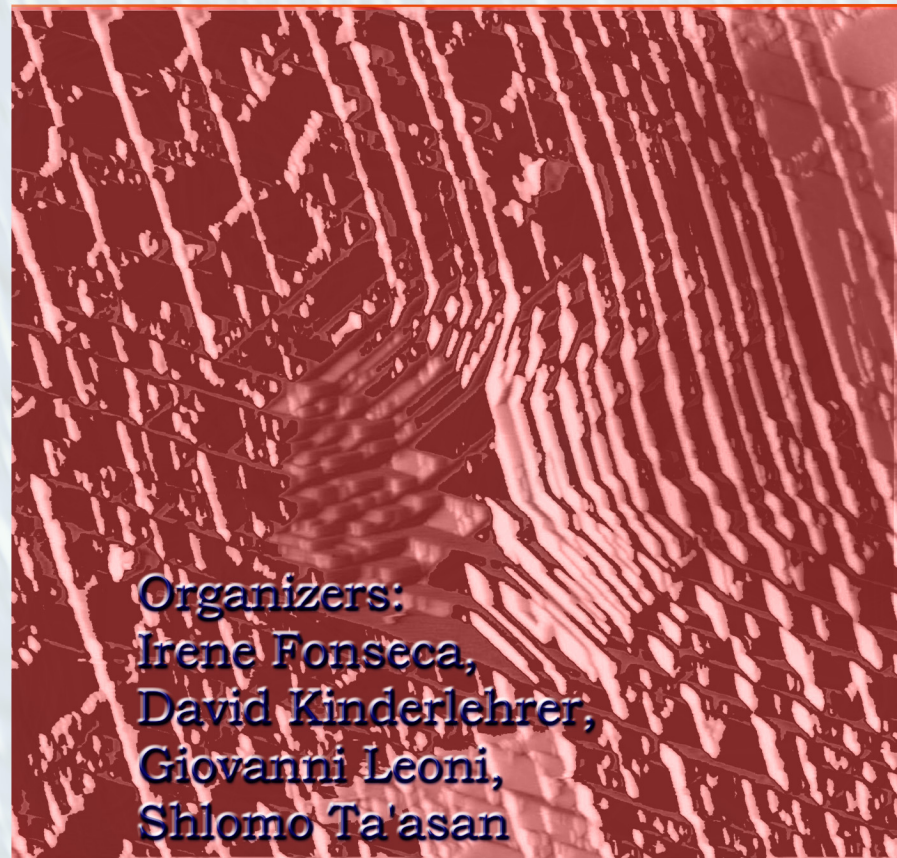
The list of lecturers includes:

Luigi Ambrosio, Scuola Normale Superiore, Pisa (ITALY)
Maria-Carme Calderer, University of Minnesota, Minneapolis
Wilfrid Gangbo, Georgia Tech University
Nassif Ghoussoub, University of British Columbia (CANADA)
Irene Fonseca, Carnegie Mellon University
Stefan Müeller, Max Planck Institute for Mathematics in the Sciences,
Leipzig (GERMANY)

One or two-hour talks will also be delivered by other speakers from "local" institutions including Carnegie Mellon University, University of Pittsburgh, Penn State University

Topics will cover:

- Transport equation and Cauchy problem for BV vector fields

- Phase transitions in liquid crystals

- Mass transport problems

- Plate and membrane theories derived from nonlinear elasticity by Gamma-convergence

- Higher order variational problems

pit defect in $SrTiO_3$. Courtesy of Gregory Rohrer, W.W. Mullins Professor of Materials Science and Engineering, Carnegie Mellon University

Organizers:
Irene Fonseca,
David Kinderlehrer,
Giovanni Leoni,
Shlomo Ta'asan

Information about this meeting:

http://www.math.cmu.edu/cna/Summer04/summerschool.html

Advanced undergraduate students, graduate students and posdoctoral fellows are encouraged to apply for financial support.

The deadline for applications is April 1, 2004.

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