

FIRST Workshop on
"ILL-POSED PROBLEMS"

November 29-30, 2010

Dipartimento di Matematica "G. Castelnuovo" – Aula INdAM

November 29, Monday

10.15 - 10.30 *Saluto del Direttore del Dipartimento di Matematica "G. Castelnuovo"*

10.30 - 11.15 Jesús Ildefonso Díaz: On time periodic free boundaries in distributed systems: The last paper by Maurizio Badii

11.15 - 11.45 *Coffee break*

11.45 - 12.30 Michel Chipot: On some exotic problems

12.30 - 13.15 Angel Manuel Ramos: Modelling and simulation of high pressure processes in food engineering and corresponding inverse problems

Lunch

14.30 - 15.15 Danielle Hilhorst: A nonlinear cross-diffusion system for contact inhibition of cell growth

15.15 - 16.00 Laurent Cohen: Extraction of tubular and tree structures in biomedical images using minimal paths and tubular models

16.30 - 18.30 Meeting of the Governing Board

Social Dinner

November 30, Tuesday

10.00 - 10.45 Günther Grün: Electrowetting with electrolytes: Existence for an elliptic-parabolic system with critical coupling

10.45 - 11.30 Peter Knabner: Hierarchical and adaptive concept for the identification of material laws by boundary observations

11.30 - 12.00 *Coffee break*

12.00 - 12.45 Lorenzo Giacomelli: A dissipative system from strain-gradient plasticity

12.45 - 13.30 Flavia Smarrazzo: Large-time behaviour of weak entropy measure-valued solutions to a class of equations with variable parabolicity direction

Lunch

14.45 - 15.30 Nicholas D. Alikakos: Heteroclinic traveling waves of gradient diffusion systems

15.30 - 16.15 Johannes Zimmer: Ill-posed problem in nonlinear elasticity: Macro and micro

16.15 - 16.45 *Coffee break*

16.45 - 17.30 Giovanni Bellettini: Remarks on a Perona-Malik type equation: Convergence of discrete approximations for large times

End of the Workshop