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## Conference on Nonlinear Evolution Problems

Rome, June 25 - 27, 2014

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## PROGRAM

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### Wednesday, June 25 (Aula Picone)

Chairwoman: Catherine Bandle.

9.30 - 10.00 Welcome address

10.00 - 10.40 Masayasu Mimura (Meiji University, Tokyo): *Spatio-temporal oscillations in the Keller-Segel system with logistic growth*

10.50 - 11.30 Brian H. Gilding (Kuwait University, Kuwait): *One-dimensional free-boundary problems in inventory control*

11.40 - 12.20 Jesús Hernández (Universidad Autónoma de Madrid, Madrid): *On linearized stability results for positive solutions to semilinear singular elliptic problems*

### Lunch

Chairman: Masayasu Mimura.

14.30 - 15.10 Danielle Hilhorst (Université Paris-Sud, Orsay): *On the large time behavior of solutions of a nonlocal evolution equation*

15.15 - 15.55 Robert Kersner (University of Pécs, Pécs): *On a cross-diffusion PDE system*

### Coffee break

Chairman: Jesús Hernández.

16.30 - 17.10 Corrado Mascia (Sapienza Università di Roma, Rome): *Hypersonic variations of the Allen-Cahn equation*

17.15 - 17.55 Adriano Pisante (Sapienza Università di Roma, Rome): *Allen-Cahn approximation of mean curvature flow on Riemannian manifolds*

## Thursday, June 26 (Aula Picone)

Chairman: Wei-Ming Ni.

9.00 - 9.40 Hiroshi Matano (University of Tokyo, Tokyo): *Propagating terrace for multi-stable nonlinear diffusion equations*

9.45 - 10.25 Mimmo Iannelli (Università di Trento, Trento): *A model for describing the structure and growth of epidermis*

### Coffee break

Chairwoman: M. Françoise Bidaut Véron.

11.00 - 11.40 Shoshana Kamin (Tel Aviv University, Tel Aviv): *Prescribed conditions at infinity for parabolic equations*

11.45 - 12.25 Roberto Natalini (Istituto per le Applicazioni del Calcolo "M. Picone", CNR, Rome): *Hyperbolic perturbations of scalar laws: from oil recovery to vasculogenesis*

### Lunch

Chairman: Mimmo Iannelli.

14.30 - 15.10 Laurent Véron (Université François Rabelais, Tours): *Initial trace of positive solutions of weakly superlinear parabolic equations*

15.20 - 16.00 Andrea Terracina (Sapienza Università di Roma, Rome): *Uniqueness and non-uniqueness results for entropy solutions of forward-backward parabolic problems*

16.10 - 16.50 Michiel Bertsch (Università di Roma "Tor Vergata", Rome): *Travelling wave solutions of a system of PDE's*

### Social Dinner

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## Friday, June 27 (Aula Picone)

Chairwoman: Maura Ughi.

9.00 - 9.40 Wei-Ming Ni (East China Normal University, Shanghai and University of Minnesota, Minneapolis): *Competition-diffusion systems*

9.45 - 10.25 Lorenzo Giacomelli (Sapienza Università di Roma, Rome): *Well-posedness for the Navier-slip thin-film equation in complete wetting*

## Coffee break

Chairman: Hiroshi Matano.

11.00 - 11.40 Henri Berestycki (EHESS, Parigi): *Propagation in non homogeneous media - the effect of geometry*

11.45 - 12.25 Catherine Bandle (University of Basel, Basel): *Quasilinear elliptic and parabolic problems with a Hardy potential*