

Optimization Days

an international workshop on Calculus of Variations

Ancona, Università Politecnica delle Marche, June 6-8, 2011

Program

• Monday 6

16.00 - *Opening*

16.10 - **Giuseppe Buttazzo** (Università di Pisa) “*Spectral optimization problems*”

17.00 - *Coffee Break*

17.20 - **Mikil Foss** (University of Nebraska-Lincoln) “*Partial Continuity for Vectorial Problems*”

18.10 - **Giampiero Palatucci** (Université de Nîmes) “*Sobolev embeddings and Concentration-compactness alternative for fractional Sobolev spaces*”

18.35 - *End of the session*

• Tuesday 7

09.30 - **Giuseppe Mingione** (Università di Parma) “*Nonlinear aspects of Calderón-Zygmund theory*”

10.20 - **Elvira Mascolo** (Università di Firenze) “*Regularity of solutions to quasilinear elliptic systems*”

11.10 - *Coffee Break*

11.40 - **Francesco Leonetti** (Università di L'Aquila) “*Integrability for solutions of some quasilinear elliptic systems*”

12.05 - **Piero Montecchiari** (Università Politecnica delle Marche) “*Energy prescribed solutions for some class of semilinear elliptic equations*”

12.30 - **Francesca Gladiali** (Università di Sassari) “*Global bifurcation results for semilinear elliptic equations*”

12.55 - *End of the session*

13.00 - *Lunch*

15.00 - **Arrigo Cellina** (Università di Milano-Bicocca) *“On the non-occurrence of the Lavrentiev phenomenon”*

15.50 - **Pierre Bousquet** (Université de Provence Aix-Marseille 1) *“Continuity of solutions for a problem in the Calculus of Variations”*

16.40 - *Coffee break*

17.10 - **Alessio Brancolini** (Politecnico di Bari) *“Regularity results on optimal patterns for the branched transportation problem”*

17.35 - **Giovanni Molica Bisci** (Università Mediterranea di Reggio Calabria) *“On some variational problems in Riemannian and Fractal Geometry”*

18.00 - *End of the session*

20.00 - *Social dinner at the Restaurant “il Giardino”*

• Wednesday 8

09.30 - **Bernard Dacorogna** (École Polytechnique Fédérale de Lausanne) *“On the equation $\det \nabla u = f$ ”*

10.20 - **Bernd Kawohl** (Universität Köln) *“Variations on the p -Laplacian”*

11.10 - *Coffee Break*

11.40 - **Salvatore Angelo Marano** (Università di Catania) *“On a Dirichlet problem with p -Laplacian and set-valued nonlinearity”*

12.05 - **Pasquale Candito** (Università Mediterranea di Reggio Calabria) *“Multiple solutions for an elliptic problem involving the p -Laplacian”*

12.30 - **Gabriele Bonanno** (Università di Messina) *“Some remarks on the variational methods”*

12.55 - *End of the session*

13.00 - *Lunch*

14.30 - **Vincenzo Vespri** (Università di Firenze) *“Long term behaviour for solutions of quasilinear parabolic equations”*

15.20 - **Giovanni Leoni** (Carnegie Mellon University) *“New characterizations of Sobolev functions and of functions of bounded variation”*

16.10 - *Conclusion*