Program Outline

Date:	July 30–August 3, 2012
Venue:	Room 3-309, Faculty of Science Building #3, Hokkaido University, Sapporo, Japan
Organizers:	L. Ambrosio (Pisa), Y. Giga (Tokyo), P. Rybka (Warsaw), Y. Tonegawa (Sapporo)

Course Lecturers and Main Themes:
Luigi Ambrosio:
Gradient flows in metric spaces and in the space of probability measures
Yann Brenier:
Optimal Transport
Robert Jerrard:
Dynamics of vortices and other topological defects in nonlinear field theories

July 30 (Mon.)

10:00-10:50	Luigi Ambrosio (Scuola Normale Superiore) (Lecture I) Metric formulations of gradient flows: Energy Dissipation Inequalities and Evolution
11:10-12:00	Yann Brenier (Universite de Nice) (Lecture I) Optimal transport of densities
14:00-14:50	Robert Jerrard (University of Toronto) (Lecture I) Overview, and parabolic equations
15:10-16:10	Diego Pallara (Universita del Salento) Bounded variation functions in Hilbert spaces and related semigroups

July 31 (Tue.)

10:00-10:50	Luigi Ambrosio (Scuola Normale Superiore) (Lecture II) Convergence of the Euler scheme and existence results