

PDE / Calculus of Variations Conference Schedule

All talks will be in 740 Evans Hall.

Breakfast and coffee breaks will be in 1015 Evans Hall.

Monday May 29 (Memorial Day)

9:00am-9:30am: Breakfast

9:30am-10:30am: Joel Spruck (Johns Hopkins): Complete translating solitons to mean curvature flow in \mathbb{R}^3 with nonnegative mean curvature

10:30am-11:00am: Break

11:00am-12:00pm: Brian Krummel (UC Berkeley) Isoperimetry with upper mean curvature bounds and sharp stability estimates

12:00pm-2pm: Lunch Break

2:00pm-3:00pm: Wilfrid Gangbo (UCLA): On intrinsic differentiability in the Wasserstein space $P_2(\mathbb{R}^d)$

3:00pm-3:30pm: Break

3:30pm-4:30pm: Scott Armstrong (NYU): Homogenization and regularity in porous media

Tuesday May 30

9:00am-9:30am: Breakfast

9:30am-10:30am: Patti Bauman (Purdue University): Behavior of minimizers for the Maier-Saupe Q-tensor energy for liquid crystals

10:30am-11:00am: Break

11:00am-12:00pm: Alberto Bressan (Penn State): PDE models of biological growth

12:00pm-2pm: Break

2:00pm-3:00pm: Takis Souganidis (U of Chicago): First-and second-order equations on junctions

3:00pm-3:30pm: Break

3:30pm-4:30pm: Luis Caffarelli (University of Texas) Local and non local obstacle type problems

Wednesday May 31

9:00am-9:30am: Breakfast

9:30am-10:30am: Hitoshi Ishii (Waseda University) The vanishing discount problem for fully nonlinear degenerate elliptic PDE

10:30am-11:00am: Break

11:00am-12:00pm Dan Phillips (Purdue University): Chevron like defects in liquid crystals

12:00pm-2pm: Break

2:00pm-3:00pm: Robert Jensen (Loyola U of Chicago): Embedded solutions of Hamilton-Jacobi-Bellman equations

3:00pm-3:30pm: Break

3:30pm-4:30pm: Fanghua Lin (NYU Courant): Revisiting the partition problem of the Dirichlet eigenvalues.

DESSERT PARTY 7:00pm

Thursday June 1

9:00am-9:30am: Breakfast

9:30am-10:30am: Jeff Calder (U of Minnesota): The weighted p -Laplacian and semi-supervised learning

10:30am-11:00am: Break

11:00am-12:00pm: Jenny Harrison (UC Berkeley): The anisotropic Plateau's problem - an axiomatic approach to elliptic minimization

12:00pm-2pm: Lunch Break

2:00pm-3:00pm: Ovidiu Savin (Columbia University) Lipschitz regularity and classification of global solutions for certain nonlinear two-phase free boundary problems

3:00pm-3:30pm: Break

3:30pm-4:30pm: Irene Gamba (University of Texas) Similarities and differences for the quantum Boltzmann equation for bosons at very low temperature and wave turbulence theory for stratified flows

Friday June 2

9:00am-9:30 am: Breakfast

9:30am-10:30am: Chris Larsen (Worcester Polytech): Dynamic fracture evolution

10:30am-11:00am: Break

11:00am-12:00pm: David Kinderlehrer (Carnegie Mellon University): The gradient flow of microstructure