MONDAY, OCT 19th

SESSION: ASPECTS OF OPTIMAL TRANSPORT
CHAIR: John M. Finn

8:00 Breakfast and Welcome

8:45 Rick Chartrand
'A simple algorithm for solving the Monge-Kantorovich problem'

9:25 Robert McCann
'When is multidimensional screening a convex program? Uniqueness and stability of optimal strategies in the principal-agent problem'

10:05 Coffee break and Poster Set-up

10:50 Adrian Tudorascu
'On the velocities of flows consisting of cyclically monotone maps'

11:30 Dejan Slepcev
'Biological aggregation, interfaces, and coarsening'

12:10-2:00 Lunch on your own

SESSION: OPTIMAL TRANSPORT AND IMAGING
CHAIR: James Theiler

2:00 Gary Sandine
'Metrics, measures and PDEs in image analysis'

2:40 Eldad Haber
'Numerical methods for optimal mass transport'

3:20 Coffee break with Poster Viewing

4:10 Sameer Sheorey
'Fast approximation of the Kantorovich-Rubinstein metric and applications to computer vision'

4:50 Yaron Lipman
'Volume transportation for surfaces'
TUESDAY, OCT 20th
SESSION: OPTIMAL TRANSPORT AND MESH ADAPTATION
CHAIR: Markus Berndt

7:30 Breakfast

8:30 Patrick Knupp
'Remarks on grid generation, equidistribution, and solution-adaptation'

9:10 Weizhang Huang
'A variational mesh adaptation method based on mesh equidistribution and alignment'

9:50 Glen Hansen
'Mesh generation and adaptation using the Laplace-Beltrami target metric'

10:30 Coffee break with Poster Viewing

11:00 Luis Chacon
'A robust multidimensional mesh motion approach based on Monge-Kantorovich optimization'

11:30 Chris Budd
'Optimal transport methods for grid generation, with applications to numerical weather prediction'

12:20 Lunch on your own

CONTRIBUTED TALKS AND POSTER SESSION
CHAIR: Rick Chartrand

2:15 Tauseef Rehman
'Surface warping and image registration'

2:30 Jean-Francois Cossette
'Monge-Ampere solvers for semi-Lagrangian trajectory schemes'

2:45 Brittany Froese
'Numerical methods for the elliptic Monge-Ampere equation'

3:00 Coffee Break

3:00-5:00 POSTER SESSION

6:00-9:00 BANQUET (Sunset Room)
Speaker - Gary Geernaert
'Climate science challenges and its systems dynamics coupling with infrastructure design and finance initiatives'
8:00 Breakfast

8:45 **Rick Salmon**  
'Constructing numerical algorithms that maintain conservation laws'

9:25 **David Dritschel**  
'Balance in non-hydrostatic rotating stratified turbulence'

10:05 Coffee break and Poster Take-down

10:50 **Andrei Sobolevskii**  
'Transport in shock manifolds in Hamilton-Jacobi equations'

11:30 **Qinglan Xia**  
'Diffusion-limited aggregation driven by optimal transportation'

12:10-12:30 Discussion and adjournment