

Workshop on Undergraduate Research in Computational Mathematics

April 5, 2008

George Mason University

- 9:40-10:40 Keynote lecture: K. Mischaikow, Rutgers University,
Rigorous Numerics via Algebraic Topology
- 11:10-11:35 D. Amarasinghe / S. Hendrickson, GMU
Hemodynamic Analysis of a Cerebral Aneurysm
- 11:35-12:00 A. Kercher, GMU
Self Organization in a Model of Thin Electric Current Sheets
- 12:00-12:25 T. Crowder, College of William and Mary
A Study of Genetic Code by Combinatorics and Matrix Theory
- 2:00-2:25 A. Koufos / F. Iacoletti, GMU
An Evaluation of the Rigid Band Model
and the Virtual Crystal Approximation in the 4d Transition Metals
- 2:25-2:50 K. Archer, College of William and Mary
Computing the Dimension of Strange Attractors
- 2:50-3:15 B. Paljug, College of William and Mary
Exploring Topological Entropy in Symbolic Dynamical Systems
- 4:00-4:25 J. Price / H. Edrees, GMU
Phase Separation Dynamics in Multi-component Metal Alloys
- 4:25-4:50 K. Nong / K. Winter, GMU
Thin Tear Film Evolution

