

**20TH ANNUAL MATHEMATICS/APPLIED MATHEMATICS
RECRUITMENT WORKSHOP
Current Ideas in the Mathematical Sciences**

SEMINAR SCHEDULE

March 6-7, 2006

All Events will be held in the Math Building, Room 401N

Monday, March 6

- 8:30 a.m. Welcome Address
Alain Goriely, Acting Head, Program in Applied Mathematics
Douglas Ulmer, Associate Head for the Graduate Program, Department of Mathematics
- 9:00 – 9:25 a.m. Arlo Caine, Graduate Student, Department of Mathematics
“Zeta-Function Determinants”
- 9:30 – 9:55 a.m. Doug Pickrell, Faculty, Department of Mathematics
“Determinants and Factorization”
- 10:00 – 10:30 a.m. Break (Refreshments provided)
- 10:30 – 10:55 a.m. Julia Arciero, Graduate Student, Program in Applied Mathematics
“Modeling Blood Flow Regulation”
- 11:00 – 11:25 a.m. Matthew Beauregard, Graduate Student, Program in Applied Mathematics
“Analyzing Instabilities of Elastic Filaments”
- 11:30 – 12:00 p.m. Tour of Applied Math and Biomath Labs* (Meet in Rm 401N)
Robert Reinking, Senior Research Engineer, Program in Applied Mathematics
Alain Goriely, Acting Head, Program in Applied Mathematics
- 12:00 – 2:00 p.m. Lunch Break (on your own)
- 2:00 – 2:25 p.m. Robert A. Gatenby, MD, Professor and Head, Department of Radiology
“Mathematical models in cancer biology”
- 2:30 – 2:55 p.m. Bob Borys, Computing Manager, Computational Facilities*
- 3:00 – 3:30 p.m. Break (Refreshments provided)
- 3:30 – 3:55 p.m. Ken McLaughlin, Faculty, Department of Mathematics
“Analysis and Some Applications”
- 4:00 – 4:50 p.m. Mac Hyman, Los Alamos National Laboratory, Mathematical Modeling & Analysis
“Good Choices for Great Careers in Mathematical Modeling and Analysis”

**Attendance on tours is optional*

Tuesday, March 7

- 9:00 – 9:25 a.m. Nicholas Rogers, Faculty, Department of Mathematics
“Ranks of Elliptic Curves”
- 9:30 – 9:55 a.m. Joceline Lega, Faculty, Department of Mathematics
“Patterns, Defects and Stability”
- 10:00 – 10:30 a.m. Break (Refreshments provided)
- 10:30 – 10:55 a.m. Daniel Ueltschi, Faculty, Department of Mathematics
“Bose-Einstein condensation and Feynman cycles”
- 11:00 – 11:25 a.m. Grethe Hystad, Graduate Student, Department of Mathematics
“The discrete and continuum Laplacian”
- 11:30 a.m. Workshop ends