

**23rd ANNUAL MATHEMATICS/APPLIED MATHEMATICS
RECRUITMENT WORKSHOP
Current Ideas in the Mathematical Sciences**

SEMINAR SCHEDULE

March 8-10, 2009

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

Monday, March 9th

- 8:45 a.m. Welcome Address
Michael Tabor, Head, Program in Applied Mathematics
Tom Kennedy, Associate Head for the Graduate Program, Department of Mathematics
- 9:00 – 9:25 a.m. Joseph Watkins, Faculty, Department of Mathematics
“Remi”
- 9:30 – 9:55 a.m. John Pate, Graduate Student, Program in Applied Mathematics
“Conditional Pulse Collapse in Nonlinear Optics”
- 10:00 – 10:30 a.m. Break
- 10:30 – 10:55 a.m. Thomas LaGatta, Graduate Student, Department of Mathematics
“Percolation: How Probability Whets the Appetite of Both the Pure and Applied”
- 11:00 – 11:25 a.m. Thomas Occhipinti, Graduate Student, Department of Mathematics
“An introduction to the equation $y^2=x^5+k$ ”
- 11:30 – 12:00 p.m. Michael Tabor, Head, Program in Applied Mathematics and Robert Reinking, Senior Research Engineer, Program in Applied Mathematics: “What do you see?” A tour of the Applied Mathematics Laboratory* (Meet in Room 401N)
- 12:00 – 2:00 p.m. Lunch Break
- 2:00 – 2:25 p.m. Alain Goriely, Faculty, Department of Mathematics
“The Mathematics of Arteries”
- 2:30 – 2:55 p.m. Bob Borys, Computing Manager, Computational Facilities*
- 3:00 – 3:30 p.m. Break
- 3:30 – 3:55 p.m. Suz Tolwinski, Graduate Student, Program in Applied Mathematics
“Physical-Statistical Climate Reconstruction from Tree Rings”
- 4:00 – 4:50 p.m. Mac Hyman, Los Alamos National Laboratory, Mathematical Modeling & Analysis
“Good Choices for Great Careers in Science”

**Attendance on tours is optional*

Tuesday, March 10th

- 8:30 a.m. Refreshments
- 9:00 – 9:25 a.m. Eric Clarkson, Faculty, Department of Radiology
“Applied mathematics in medical imaging”
- 9:30 – 9:55 a.m. Mark Robertson-Tessi, Graduate Student, Program in Applied Mathematics
“Mathematical modeling of tumor growth”
- 10:00 – 10:25 a.m. Kirti Joshi, Faculty, Department of Mathematics
“Algebraic geometry and Number theory at UA”
- 10:30 a.m. Selin Kalaycioglu, Graduate Student, Department of Mathematics
“Algorithmic methods in modular representation theory”
- 11:00 a.m. Seminar ends