

**23<sup>rd</sup> 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**

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| 8:45 a.m.          | Welcome Address<br>Michael Tabor, Head, Program in Applied Mathematics<br>Tom Kennedy, Associate Head for the Graduate Program, Department of Mathematics   |
| 9:00 – 9:25 a.m.   | Joseph Watkins, Faculty, Department of Mathematics<br><i>“Remi”</i>   |
| 9:30 – 9:55 a.m.   | John Pate, Graduate Student, Program in Applied Mathematics<br><i>“Conditional Pulse Collapse in Nonlinear Optics”</i>  |
| 10:00 – 10:30 a.m. | Break   |
| 10:30 – 10:55 a.m. | Thomas LaGatta, Graduate Student, Department of Mathematics<br><i>“Percolation: How Probability Whets the Appetite of Both the Pure and Applied”</i>  |
| 11:00 – 11:25 a.m. | Thomas Occhipinti, Graduate Student, Department of Mathematics<br><i>“An introduction to the equation <math>y^2=x^5+k</math>”</i>   |
| 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<br><i>“The Mathematics of Arteries”</i>   |
| 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<br><i>“Physical-Statistical Climate Reconstruction from Tree Rings”</i>   |
| 4:00 – 4:50 p.m.   | Mac Hyman, Los Alamos National Laboratory, Mathematical Modeling & Analysis<br><i>“Good Choices for Great Careers in Science”</i>   |

*\*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