

**PROJECT NEXt**  
**NEW EXPERIENCES IN TEACHING**  
**2004-2005 FELLOWS, PROVIDENCE, RI**

A program of

**THE MATHEMATICAL ASSOCIATION OF AMERICA**

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**THE ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS**  
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## TUESDAY, AUGUST 10

- 7:15 - 8:15 am** BREAKFAST  
**B&H Lobby**
- 8:30 - 9:45 am** *Selected topics in teaching undergraduate mathematics I*  
Five simultaneous sessions – See information for assignments.  
*Getting Your Students to Read Their Calculus Text* – Thomas Ratliff, Wheaton College, MA, **B&H 165**  
*Adding the Words: Using Writing to Teach Mathematics* -- John Meier, Lafayette College, **B&H 163**  
*Discrete Math*, Arthur Benjamin, Harvey Mudd College, **B&H 161**  
*Group Projects in Upper Division Courses such as Abstract Algebra and Real Analysis* – Cheryl Chute-Miller, State University of New York, Potsdam, **B&H 160**  
*So You're an Advisor -- Now What?* – Sandra Paur, North Carolina State University, Raleigh, **B&H 159**
- 9:55 - 10:25 am** BREAK  
**B&H Lobby**
- 10:25 - 11:40 am** Panel: *Using class time well*  
sarah-marie belcastro, Xavier University, Ohio  
Thomas Garrity, Williams College  
Richard Jardine, Keene State College  
**B&H 166**
- 11:45 am - 1:00 pm** LUNCH  
**B&H Lobby**
- 1:15 - 2:30 pm** Repeat of morning breakout sessions – See information for assignments.
- 2:40 - 3:40 pm** *A Mathematician's Role in the Mathematical Education of Teachers*  
W. James Lewis, University of Nebraska, Lincoln  
**B&H 166**
- 3:40 - 4:10 pm** BREAK  
**B&H Lobby**
- 4:10 - 5:25 pm** Panel: *The faculty member as teacher and scholar*  
David Carothers, James Madison University  
Megan Kerr, Wellesley College  
Bozenna Pasik-Duncan, University of Kansas  
Brian Winkel, United States Military Academy  
**B&H 166**
- 5:30 - 7:00 pm** DINNER  
**Verney-Wooley Dining Hall**
- 8:00 - 10:00 pm** Social Event for all Project NExT Fellows and invited guests  
**Vartan Gregorian Quadrangle**

**WEDNESDAY, AUGUST 11**

- 7:00 - 8:00 am**      **BREAKFAST**  
**B&H Lobby**
- 8:15 - 9:30 am**      *Selected topics in teaching undergraduate mathematics II*  
Five simultaneous sessions – See information for assignments.  
*Alternative Approaches to Geometry* – Colm Mulcahy, Spelman College,  
**B&H 165**  
*The Pleasure of Teaching Linear Algebra* – Gilbert Strang, Massachusetts  
Institute of Technology, **B&H 163**  
*Teaching Students to Write Proofs* – Carol Schumacher, Kenyon College,  
**B&H 160**  
*Effectively Using Applied Writing Projects in Calculus* – P. Gavin LaRose,  
University of Michigan, **B&H 159**  
*High- and Low-Tech in the ODE Course* – Michael Moody, Olin College,  
**B&H 157**
- 9:35 - 10:05 am**      **BREAK**  
**B&H Lobby**
- 10:10 - 11:25 am**      Panel: *Finding out what your students have learned*  
Thomas Banchoff, Brown University  
Olympia Nicodemi, State University of New York, Geneseo  
Catherine Roberts, College of the Holy Cross  
**B&H 166**
- 11:25 - 11:40 am**      Planning session for January Meetings in Atlanta  
**B&H 166**
- 11:45 - 12:30 pm**      Small group discussions with other Project NExT Fellows. [Please select the  
session that best describes your research interests.]  
Analysis – **B&H 153**  
Combinatorics, graph theory, discrete mathematics – **B&H 155**  
Applied mathematics, operations research– **B&H 157**  
Geometry, topology, set theory, logic – **B&H 158**  
Mathematics education – **B&H 159**  
Probability/Statistics – **B&H 160**  
Algebra/Number theory – **B&H 161**  
Differential equations and dynamical systems – **B&H 163**
- 12:30 - 1:45 pm**      **LUNCH**  
**B&H Lobby**
- 2:00 - 3:15 pm**      Repeat of morning breakout sessions – See information for assignments.
- 3:15 - 3:50 pm**      **BREAK**  
**MacMillan Lobby**

**WEDNESDAY, AUGUST 11 (cont'd)**

**3:55 - 5:45 pm** Closing Session  
Recognition of 2003-04 Fellows  
Presentation: *Finding Your Niche in the Profession*  
Joseph Gallian, University of Minnesota, Duluth  
**MacMillan 117**

**7:30 – 9:30 pm** Mathfest Opening Banquet  
Master of Ceremonies: Annalisa Crannell, Franklin & Marshall College  
Presentation: *Captivating Stories for Mathematics Students*  
Dan Kalman, American University

**THURSDAY, AUGUST 12 and FRIDAY, AUGUST 13**

**Project NExT Courses During the Mathfest:** Four-hour courses meeting on Thursday and Friday, August 12 and 13, in the Rhode Island Convention Center (RICC). (Courses A, B, and C meet at 1:00 – 3:00 p.m. on both days; Courses D and E meet at 3:15 – 5: 15 p.m. on both days.)

- A. *Math Modeling in the Curriculum* – Catherine Roberts, College of the Holy Cross,  
**1:00 - 3:00 p.m., RICC 554A.**
- B. *Preparing to Teach Mathematics for Prospective Teachers* – Judith Covington, Louisiana State University, Shreveport, **1:00 - 3:00 p.m., RICC 553A.**
- C. *Introductory Statistics* – Jeff Witmer, Oberlin College, **1:00 - 3:00 p.m., RICC 553B.**
- D. *Getting Your Research off to a Good Start/ Proposal Preparation for Projects in Undergraduate Mathematical Sciences*-- Joseph Gallian, University of Minnesota, Duluth, and Calvin Williams, National Science Foundation, **3:15 - 5:15 p.m., RICC 553 A, 553B.**
- E. *Undergraduate Research -- How to Make It Work --* Aparna Higgins, University of Dayton, **3:15 - 5:15 p.m., RICC 554A.**

**SATURDAY, AUGUST 14, afternoon**

Project NExT Fellows are invited to attend two sessions sponsored by Texas Instruments on using hand-held calculators to enhance the teaching of mathematics. One session will deal with teaching mathematics below the level of calculus, and the other will deal with calculus and differential equations. The presenter is Edward Connors of the University of Massachusetts, Amherst. The details about times and location are in a flyer in your Project NExT registration folder.