

PROJECT NExT

NEW EXPERIENCES IN TEACHING

2005-2006 FELLOWS, ALBUQUERQUE, NM

A program of

THE MATHEMATICAL ASSOCIATION OF AMERICA

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TEXAS INSTRUMENTS

THE ASSOCIATION FOR SYMBOLIC LOGIC

THE ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS

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We gratefully acknowledge their support.

**Project NExT: New Jobs, New Responsibilities, New Ideas
Program for the Workshop in Albuquerque, New Mexico
August 1 - 3, 2005**

The Project NExT registration area is in Dane Smith Hall on the University of New Mexico campus. All sessions, unless otherwise noted, are in Dane Smith Hall.

MONDAY, AUGUST 1

- 11 am - 1:15 pm** Arrival and registration
- 1:30 - 1:45 pm** Welcome and opening remarks
 T. Christine Stevens, Saint Louis University
 Director of Project NExT
Room 125
- 2:00 - 2:45 pm** Small group discussions – See information for assignments
 Group A: Room 126 Group E: Room 136
 Group B: Room 127 Group F: Room 223
 Group C: Room 128 Group G: Room 224
 Group D: Room 129
- 2:55 - 3:45 pm** *Magical Moments in Teaching and Undergraduate Research*
 Arthur T. Benjamin, Harvey Mudd College
Room 125
- 3:50 - 4:20 pm** BREAK – Atrium
- 4:30 - 5:15 pm** Small group discussions [Same room assignments by group as above, but
 your group assignment may have changed.]
 Group A: Room 126 Group E: Room 136
 Group B: Room 127 Group F: Room 223
 Group C: Room 128 Group G: Room 224
 Group D: Room 129
- 5:30 - 7:00 pm** DINNER – La Posada
- 7:30 - 9:00 pm** *Conversation with the Leadership*
 Carl Cowen, Indiana University Purdue University, Indianapolis
 President, The Mathematical Association of America
 Martha Siegel, Towson University
 Secretary, The Mathematical Association of America
 Ben Fusaro, Florida State University and
 The Society for Industrial and Applied Mathematics
Room 125

TUESDAY, AUGUST 2

- 7:00 - 8:15 am** **BREAKFAST – La Posada**
- 8:30 – 9:45 am** *Selected topics in teaching undergraduate mathematics I*
[Five simultaneous sessions – See information for assignments.]
- A. *Student Presentations from A to “Oh, my”* – Suzanne Doree,
Augsburg College, **Room 126**
 - B. *Effectively Using Applied Writing Projects in Calculus* – P. Gavin
LaRose, University of Michigan, **Room 127**
 - C. *Promoting Diversity in Mathematics* – Robert Megginson,
University of Michigan, **Room 128**
 - D. *Teaching Students to Prove* – Jennifer Quinn, Occidental
College/University of Puget Sound, **Room 129**
 - E. *Designing Laboratory Exercises for Upper-Division Math Courses*
-- Joanne Snow, Saint Mary’s College, Indiana, **Room 136**
- 9:55 - 10:25 am** **BREAK – Atrium**
- 10:25 - 11:40 am** Panel: *Deciding how to teach*
William Fenton, Bellarmine University
Joseph Fiedler, California State University, Bakersfield
Nancy Ann Neudauer, Pacific University
Room 125
- 11:45 am - 1:15 pm** **LUNCH – Atrium**
- 1:15 - 2:30 pm** Repeat of morning breakout sessions – See information for assignments
- 2:40 - 3:40 pm** *Two Research Traditions Separated by a Common Subject: Mathematics
and Mathematics Education*
Annie Selden, New Mexico State University
Room 125
- 3:40 - 4:10 pm** **BREAK – Atrium**
- 4:10 - 5:25 pm** Panel: *The faculty member as teacher and scholar*
Paul Eloie, University of Dayton
Eric Hsu, San Francisco State University
Joanne Snow, Saint Mary’s College, Indiana
Judy Walker, University of Nebraska, Lincoln
Room 125
- 5:30 - 7:00 pm** **DINNER – La Posada**
- 8:00 - 10:00 pm** Social Event for all Project NExT Fellows and invited guests
Hokana Cellar

WEDNESDAY, AUGUST 3

- 7:00 - 8:30 am** **BREAKFAST – La Posada**
- 8:30 – 9:35 am** **FREE TIME**
- 9:35- 10:05 am** **BREAK for 2004-05 and 2005-06 Fellows and presenters – Atrium**
- 10:10 -11:25 am** *Selected topics in teaching undergraduate mathematics II*
[Five simultaneous sessions – see information for assignments]
- A. *Inquiry Based Learning for Your Students* – Carol Browning, Drury University – **Room 128**
 - B. *Teaching the Sophomore Level Differential Equations Course in the 21st Century (not the 19th)* – Robert Devaney, Boston University, **Room 129**
 - C. *Liberal Arts Mathematics: Making connections between us and them* – Elena Marchisotto, California State University, Northridge, **Room 136**
 - D. *Teaching Linear Algebra with Technology* – Jennifer McNulty, University of Montana, **Room 223**
 - E. *Advising in an Undergraduate Setting* – Richard Poss, St. Norbert College, **Room 224**
- 11:30 am - 12:15 pm** Small Group Discussions with other Project NExT Fellows
[For these sessions we will be splitting geographically. Please attend the group that includes the state or province where your institution is located.]
- Group A: AB, AK, AZ, CA, HI, ID, MT, NM, NV, OR, UT, WA -- **Room 126**
- Group B: CO, IA, MN, ND, NE, SD, WY -- **Room 120**
- Group C: AR, KS, LA, MO, MS, OK, TX -- **Room 123**
- Group D: IL, IN, WI – **Room 128**
- Group E: MI, OH – **Room 129**
- Group F: DE, KY, PA, WV – **Room 136**
- Group G: AL, FL, GA, NC, SC, TN, VI – **Room 127**
- Group H: DC, MD, Metropolitan NYC (ZIP codes 10000-11999 and 12400-12799), NJ, VA – **Room 223**
- Group I: CT, MA, ME, NF, NH, NS, NY (ZIP Codes 12000-12399 and 12800-14999), ON, QC, RI, VT – **Room 224**
- 12:15 - 1:30 pm** **LUNCH – Atrium**
- 1:35 - 2:50 pm** Repeat of morning breakout sessions – See information for assignments.
- 2:55 - 3:25 pm** Planning session for January Meetings in San Antonio
Room 125

- 3:25-3:55 pm** **BREAK – Atrium**
- 3:55 - 5:25 pm** Closing Session
 Recognition of 2004-05 Fellows
 Presentation: *Finding Your Niche in the Profession*
 Joseph Gallian, University of Minnesota Duluth
Room 125
- 7:30 – 9:30 pm** Mathfest Opening Banquet
 Master of Ceremonies: Annalisa Crannell, Franklin & Marshall College
 Presentation: *Groups, Graphs, and Escher Designs*
 Joseph Gallian, University of Minnesota Duluth

THURSDAY, AUGUST 4, AND FRIDAY, AUGUST 5

Project NExT Courses During the Mathfest: Four-hour courses meeting on Thursday and Friday, August 4 and 5, in the Albuquerque Convention Center (ACC). (Courses A, B, C and D meet at 1:00 – 3:00 p.m. on both days; Courses E and F meet at 3:15 – 5:15 p.m. on both days.) See information for assignments.

- A. *Teaching Statistical Concepts with Activities, Data, and Technology* – Beth Chance and Allan Rossman, California Polytechnic State University, San Luis Obispo, 1:00 – 3:00 p.m. **Zuni, ACC.**
- B. *Hand-held Technology in the Mathematics Classroom* – Joseph Fiedler, California State University, Bakersfield, 1:00 – 3:00 p.m., **Sandia, ACC**
- C. *Applications in the Curriculum – Challenges, Pitfalls, and Rewards* – Ben Fusaro, Florida State University, 1:00 - 3:00 p.m., **Laguna, ACC.**
- D. *Teaching Math Courses for Teachers* – Dale Oliver, Humboldt State University, 1:00 – 3:00 p.m., **Santo Domingo, ACC.**
- E. *Getting Your Research Off to a Good Start/Applying for Research and Education Grants* -- Joseph Gallian, University of Minnesota Duluth, and Lloyd Douglas, National Science Foundation, 3:15 – 5:15 p.m.. **Zuni, ACC, and Laguna, ACC.**
- F. *Undergraduate Research -- How to Make It Work* -- Aparna Higgins, University of Dayton, 3:15 - 5:15 p.m., **Santo Domingo, ACC.**

