

PROJECT NExT
NEW EXPERIENCES IN TEACHING
2006-2007 FELLOWS, KNOXVILLE, TN

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THE MATHEMATICAL ASSOCIATION OF AMERICA

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Project NExT: New Jobs, New Responsibilities, New Ideas
Program for the Workshop in Knoxville, Tennessee
August 7 - 9, 2006

The Project NExT registration area is in the 4th floor Lobby of the University of Tennessee Conference Center. All Project NExT sessions, unless otherwise noted, are in the University of Tennessee Conference Center.

MONDAY, AUGUST 7

11 a.m. - 1:15 p.m. Arrival and registration

1:30 - 1:45 p.m. Welcome and opening remarks
T. Christine Stevens, Saint Louis University
Director of Project NExT
Room 406

2:00 - 2:45 p.m. Small group discussions – See information for assignments
Group A: Room 400A Group E: Room 411
Group B: Room 400B Group F: Room 413A
Group C: Room 401 Group G: Room 413B
Group D: Room 403 Group H: Room 417

2:55 - 3:45 p.m. *My Journey from Graduate School to Being a University Professor*
William Y. Velez, University of Arizona
Room 406

3:50 - 4:20 p.m. BREAK – Atrium

4:30 - 5:15 p.m. Small group discussions [Same room assignments by group as above, but your group assignment may have changed.]
Group A: Room 400A Group E: Room 411
Group B: Room 400B Group F: Room 413A
Group C: Room 401 Group G: Room 413B
Group D: Room 403 Group H: Room 417

5:30 - 7:00 p.m. DINNER – **Room 404**

7:30 - 9:00 p.m. *Conversation with the Leadership*
Carl Cowen, Indiana University Purdue University, Indianapolis
President, The Mathematical Association of America
Robert Daverman, University of Tennessee
Secretary, The American Mathematical Society
Suzanne Lenhart, University of Tennessee
Former President, The Association for Women in Mathematics and
Trustee, The Society for Industrial and Applied Mathematics
Martha Siegel, Towson University
Secretary, The Mathematical Association of America
Room 406

9:00 p.m. - ? INFORMAL SOCIALIZING

TUESDAY, AUGUST 8

7:00 - 8:15 a.m. BREAKFAST – **Room 404**

8:30 – 9:45 a.m. *Selected topics in teaching undergraduate mathematics I*

[Five simultaneous sessions – See information for assignments.]

A. *Student Presentations from A to “Oh, my”* – Suzanne Dorée, Augsburg College,
Room 400A

B. *The Many Faces of Discrete Mathematics* – Douglas Ensley, Shippensburg
University of Pennsylvania, **Room 400B**

C. *Effectively Using Applied Writing Projects in Differential Equations* -- P. Gavin
LaRose, University of Michigan, **Room 403**

D. *Using GAP When Teaching Abstract Algebra* – Julianne Rainbolt, Saint Louis
University, **Room 413A**

E. *Getting Your Students to Read Their Text* -- Thomas Ratliff, Wheaton College,
MA, **Room 413B**

9:55 - 10:25 a.m. BREAK – **Atrium**

10:25 - 11:40 a.m. Panel: *Deciding how to teach*

William Fenton, Bellarmine University

Roe Goodman, Rutgers University

Hortensia Soto-Johnson, University of Northern Colorado

Room 406

11:45 a.m. - 1:10 p.m. LUNCH – **Room 404**

1:15 - 2:30 p.m. Repeat of morning breakout sessions – See information for assignments

2:40 - 3:40 p.m. *The Mathematical Preparation of Teachers: History, Issues, and Challenges*

Karen Graham, University of New Hampshire

Room 406

3:40 - 4:10 p.m. BREAK – **Atrium**

4:10 - 5:25 p.m. Panel: *The faculty member as teacher and scholar*

Douglas Ensley, Shippensburg University of Pennsylvania

Chikako Mese, Johns Hopkins University

Christopher Rodger, Auburn University

Carol Schumacher, Kenyon College

Room 406

5:30 - 7:00 p.m. DINNER – **Room 404**

8:00 - 10:00 p.m. Social Event for 2005-06 and 2006-07 Project NExT Fellows and presenters

Holiday Inn

10:00 p.m. - ? INFORMAL SOCIALIZING

WEDNESDAY, AUGUST 9

7:00 - 8:30 a.m. BREAKFAST – **Room 404**

8:30 – 9:35 a.m. FREE TIME for informal socializing, etc.

9:35- 10:05 a.m. BREAK – **Atrium**

10:10 -11:25 a.m. *Selected topics in teaching undergraduate mathematics II*

[Five simultaneous sessions – See information for assignments.]

- A. *Teaching Calculus Using Creative Hands-on Activities* – Julia Barnes, Western Carolina U., **Room 413A**
- B. *Pedagogical Use of the Web and On-line Homework* – Michael Gage, Univ. of Rochester, **Room 411**
- C. *Adding the Words: Using Writing to Teach Mathematics* – John Meier, Lafayette College, **Room 401**
- D. *Advising Mathematics Students Academically and Professionally* – James Sellers, Pennsylvania State University, **Room 403**
- E. *Teaching Students to Prove Theorems* – Carol Schumacher, Kenyon College, **Room 417**

11:30 a.m. - 12:15 p.m. Small group discussions with other Project NExT Fellows. [For these sessions we will be splitting by research area. Please attend the group that best describes your mathematical interests.]

Group A – algebra – **Room 413A**

Group B – analysis, differential equations, dynamical systems – **Room 400A**

Group C – applied mathematics, operations research – **Room 400B**

Group D – combinatorics, graph theory, discrete math -- **Room 413B**

Group E – geometry, algebraic geometry -- **Room 403**

Group F – linear algebra, number theory -- **Room 417**

Group G – mathematics education -- **Room 411**

Group H – probability, statistics -- **Room 401**

Group I – topology, set theory, logic -- **Room 413C**

12:15 - 1:30 p.m. LUNCH – **Room 404**

1:35 - 2:50 p.m. Repeat of morning breakout sessions – See information for assignments.

2:55 - 3:25 p.m. Planning session for January Meetings in New Orleans
Room 406

3:25-3:55 p.m. BREAK – **Atrium**

3:55 - 5:25 p.m. Closing Session
Recognition of 2005-06 Fellows
Presentation: *Finding Your Niche in the Profession*
Joseph Gallian, University of Minnesota Duluth
Room 413AB&C

(Wednesday continued on next page)

WEDNESDAY, AUGUST 9 (continued)

6:30 – 7:30 p.m. Mathfest Opening Reception (Cash bar)
Great Smoky Mountain Center, Hilton

7:30 – 9:30 p.m. Mathfest Opening Banquet
Master of Ceremonies: Edward Burger, Williams College
Presentation: *Mathemagics!*
Arthur Benjamin, Harvey Mudd College
Salon CD&E, Hilton

9:30 p.m. - ? INFORMAL SOCIALIZING

THURSDAY, AUGUST 10, AND FRIDAY, AUGUST 11

Project NExT Courses During the Mathfest: Four-hour courses meeting on Thursday and Friday, August 10-11.

- A. *Teaching Math Courses for Future Teachers* – Judith Covington, Louisiana State University Shreveport, 1:00 - 3:00 p.m., **413A**
- B. *Modeling Through the Curriculum* – Solomon Garfunkel, The Consortium for Mathematics and Its Applications, 1:00 - 3:00 p.m., **Room 400A**
- C. *Teaching Geometry: An Active learning Approach* – Margaret Morrow, State University of New York, Plattsburgh, 1:00 - 3:00 p.m., **Room 413B**
- D. *Teaching Introductory Statistics: Concepts, Activities, and Projects* – Penelope Dunham, Muhlenberg College, 3:15 - 5:15 p.m., **Room 413B**
- E. *Undergraduate Research -- How to Make It Work* -- Aparna Higgins, University of Dayton, 3:15 - 5:15 p.m., **Room 413A**
- F. *Getting Your Research Off to a Good Start/Applying for Research and Education Grants* -- 3:15 – 5:15 p.m.,
Joseph Gallian, University of Minnesota Duluth, **Room 400B** and
Lloyd Douglas, National Science Foundation, **Room 400A**