PROJECT NE\textsc{xT}

NEW EXPERIENCES IN TEACHING

2005-2006 FELLOWS, ALBUQUERQUE, NM

A program of

THE MATHEMATICAL ASSOCIATION OF AMERICA

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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 B:  Room 127
    Group C:  Room 128
    Group D:  Room 129
    Group E:  Room 136
    Group F:  Room 223
    Group G:  Room 224

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 B:  Room 127
    Group C:  Room 128
    Group D:  Room 129
    Group E:  Room 136
    Group F:  Room 223
    Group G:  Room 224

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 Eloe, 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.