PROJECT NExT

NEW EXPERIENCES IN TEACHING

2003-2004 FELLOWS, BOULDER, CO

A program of

THE MATHEMATICAL ASSOCIATION OF AMERICA

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THE ASSOCIATION FOR SYMBOLIC LOGIC

THE ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS

THE GREATER MAA FUND

We gratefully acknowledge their support.
Project NExT: New Jobs, New Responsibilities, New Ideas
Program for the Workshop in Boulder, Colorado
July 28 – 30, 2003

Except as noted, all rooms are in Williams Village on the University of Colorado campus. The Project NExT registration area is in the lobby of Darley Commons in Williams Village.

MONDAY, JULY 28

11 am - 1:15 pm  Arrival and registration

1:30 - 1:45 pm  Welcome and opening remarks
T. Christine Stevens, Saint Louis University and Director of Project NExT
Stearns 178

2:00 - 2:45 pm  Small group discussions – See information for assignments.

Group A:  Darley 100
Group B:  Darley 101
Group C:  Darley 103
Group D:  Darley 400
Group E:  Darley 402
Group F:  Stearns 177
Group G:  Stearns 179

2:55 - 3:45 pm  Challenging Your Students to Do Their Best
Carl Cowen, Purdue University
First Vice-President, The Mathematical Association of America
Stearns 178

3:50 - 4:20 pm  BREAK – near Stearns 178

4:30 - 5:15 pm  Small group discussions [Same room assignments by group as above, but your group assignment may have changed.]

5:20 - 6:30 pm  DINNER

7:30 - 9:00 pm  Conversation with the Leadership
Ronald Graham, University of California, San Diego
President, The Mathematical Association of America
Martha Siegel, Towson University
Secretary, The Mathematical Association of America
William Briggs, University of Colorado, Denver
Vice President for Education, The Society for Industrial and Applied Mathematics
Andy Magid, University of Oklahoma
Associate Editor, Notices of the American Mathematical Society
Stearns 178
TUESDAY, JULY 29

7:00 - 8:20 am  BREAKFAST

8:30 - 9:45 am  Selected topics in teaching undergraduate mathematics I
Five simultaneous sessions — See information for assignments.
A. Math Modeling in the Curriculum — Catherine Roberts, College of the Holy Cross — Darley 101
B. Teaching Students to Write Proofs — Carol Schumacher, Kenyon College — Darley 400
C. Teaching Geometry — What an Opportunity! — Doris Schattschneider, Moravian College — Darley 103
D. Quantitative Reasoning: Teaching Mathematics to Liberal Arts Students — William Briggs, University of Colorado, Denver — Stearns 177
E. Advising with a Purpose — Charles Diminnie, Angelo State University — Stearns 179

9:55 - 10:25 am  BREAK — near Stearns 178

10:25 - 11:40 am  Panel: Using Class Time Well
Jerrold Grossman, Oakland University
Diane Herrmann, University of Chicago
Elizabeth Mayfield, Hood College
Stearns 178

11:45 am - 1:05 pm  LUNCH

1:15 - 2:30 pm  Repeat of morning breakout sessions — See information for assignments.

2:40 - 3:40 pm  Ideas for increasing the number of mathematics majors
William Yslas Velez, University of Arizona
Stearns 178

3:40 - 4:10 pm  BREAK — near Stearns 178

4:10 - 5:25 pm  Panel: The faculty member as teacher and scholar
Raymond Greenwell, Hofstra University
Andy Magid, University of Oklahoma
Doris Schattschneider, Moravian College
Hortensia Soto-Johnson, Colorado State University, Pueblo
Stearns 178

5:30 - 6:30 pm  DINNER

8:00 - 10:00 pm  Social Event for all Project NExT Fellows and invited guests — outside Stearns Towers
WEDNESDAY, JULY 30

7:00 - 8:05 am  BREAKFAST

8:15 - 9:30 am  Selected topics in teaching undergraduate mathematics II  
Five simultaneous sessions – See information for assignments.  
A. Group Assignments, Projects, and Activities for Courses Below Calculus  
   – Janet Andersen, Hope College – Darley 101  
B. Teaching the Sophomore Differential Equations Course in the Twenty-First Century  
   – Robert Devaney, Boston University – Darley 103  
C. Teaching Linear Algebra  
   – Jennifer McNulty, University of Montana, Missoula – Darley 200  
D. Getting Your Students to Read Their Calculus Text  
   – Thomas Ratliff, Wheaton College, MA – Darley 100  
E. Adding the Words: Using Writing to Teach Mathematics  
   – John Meier, Lafayette College – Darley 400

9:35 - 10:05 am  BREAK – near Stearns 178

10:10 - 11:25 am  Panel: Finding out what your students have learned  
James Curry, University of Colorado, Boulder  
Karen Rhea, University of Michigan  
Catherine Roberts, College of the Holy Cross  
Sears 178

11:30 - 12:30 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 –  
          Stearns 178
Group B:  CO, IA, MN, ND, NE, SD, WY – Darley 101
Group C:  AR, KS, LA, MO, MS, OK, TX – Darley 200
Group D:  IL, WI – Darley 402
Group E:  IN, MI, OH – Darley 100
Group F:  DE, KY, PA, WV – Darley 103
Group G:  AL, FL, GA, NC, SC, TN, VI – Stearns 179
Group H:  DC, MD, Metropolitan NYC (ZIP codes 10000-11999 and  
          12400-12799), NJ, VA – Stearns 177
Group I:  CT, MA, ME, NF, NH, NS, NY (ZIP Codes 12000-12399 and  
          12800-14999), RI, VT – Darley 400

12:35 - 1:30 pm  LUNCH

2:00 - 3:15 pm  Repeat of morning breakout sessions – See information for assignments.

3:15 - 3:55 pm  BREAK – near Stearns 178
3:55 - 5:45 pm  
Closing Session  
Recognition of 2002-03 Fellows  
Presentation: Finding Your Niche in the Profession  
Joseph Gallian, University of Minnesota, Duluth  
Second Vice President, The Mathematical Association of America  
Steams 178

7:30 – 9:30 pm  
Mathfest Opening Banquet  
Master of Ceremonies: David Stone, Georgia Southern University  
Presentation by Tom Noddy -- Bubble Magic: Science and Soap Films

Project NExT Courses During the Mathfest: Four-hour courses meeting on the afternoons of Thursday and Friday, July 31 and August 1. (Courses A, B, and C meet at 1:00 – 3:00 p.m. on both days; Courses D, E, and F meet at 3:15 – 5:15 p.m. on both days.) These rooms are in the Engineering Center.

A. Graphing Calculators and Data Collection in Calculus and Below -- Joseph Fiedler, California State University, Bakersfield -- ECCR 133, 1 - 3 p.m.,

B. Undergraduate Research -- How to Make It Work -- Aparna Higgins, University of Dayton -- ECCR 1B55, 1 - 3 p.m.

C. Getting Your Research off to a Good Start/Applying for Research and Education Grants -- Joseph Gallian, University of Minnesota, Duluth (ECCR 1B51), and Lloyd Douglas, National Science Foundation (ECCR 105), 1 - 3 p.m.

D. Cooperative Learning in Calculus -- Karen Rhea, University of Michigan -- ECCR 1B51, 3:15 - 5:15 p.m

E. Planning and Teaching Mathematics Courses For Elementary and Secondary Pre-service Teachers -- Hortensia Soto-Johnson, Colorado State University, Pueblo -- ECCR 1B55, 3:15 - 5:15 p.m.

F. Teaching an Introductory Statistics Course -- Robin Lock, Saint Lawrence University  
ECCR 105, 3:15 - 5:15 p.m.