PROJECT NExT

NEW EXPERIENCES IN TEACHING

2010-2011 FELLOWS

Workshop held in Pittsburgh, PA
August 2 – 4, 2010

A program of

THE MATHEMATICAL ASSOCIATION OF AMERICA

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We gratefully acknowledge their support.
MONDAY, AUGUST 2

11 am - 1:15 pm  Arrival and registration – Grand Foyer

1:30 - 1:45 pm  Welcome and opening remarks – Salons 2-3 Grand Ballroom
                Aparna Higgins, University of Dayton and Director of Project NExT

2:00 - 2:45 pm  Small group discussions – See information for assignments.
                Group A: A City Center  Group E: Salon 1 Grand Ballroom
                Group B: Marquis A Ballroom  Group F: Salon 4 Grand Ballroom
                Group C: Marquis B Ballroom  Group G: Salon 5 Grand Ballroom
                Group D: Marquis C Ballroom  Group H: Salon 6 Grand Ballroom

2:55 - 3:45 pm  Transitions – Salons 2-3 Grand Ballroom
                David Bressoud, Macalester College

3:50 - 4:20 pm  BREAK – Grand Foyer

4:30 - 5:15 pm  Small group discussions [Same room assignments by group above, but your
                group assignment may have changed – see information.]
                Group A: A City Center  Group E: Salon 1 Grand Ballroom
                Group B: Marquis A Ballroom  Group F: Salon 4 Grand Ballroom
                Group C: Marquis B Ballroom  Group G: Salon 5 Grand Ballroom
                Group D: Marquis C Ballroom  Group H: Salon 6 Grand Ballroom

5:30 - 7:00 pm  DINNER – Grand Foyer

7:30 - 8:45 pm  Joining the Mathematical Community – Salons 2-3 Grand Ballroom
                Douglas Ensley, Shippensburg University
                Sarah Greenwald, Appalachian State University
                Chawne Kimber, Lafayette College
                Jonathan Rubin, University of Pittsburgh

9:00 p.m. - ?  INFORMAL SOCIALIZING
TUESDAY, AUGUST 3

7:00 - 8:15 am  BREAKFAST – Grand Foyer

8:30 - 9:45 am  Selected topics in teaching undergraduate mathematics I  
[Five simultaneous sessions – See information for assignments.]
A. Teaching Undergraduate Geometry - Satisfying Course Goals While Increasing Student (and Teacher) Enjoyment – Sarah Greenwald, Appalachian State University, A City Center
B. Effectively Using Applied Writing Projects in Undergraduate Mathematics Courses – Gavin LaRose, University of Michigan, Marquis A Ballroom
C. Advising Mathematics Students Academically and Professionally – James Sellers, Pennsylvania State University, Marquis B Ballroom
D. Functioning in Calculus: Combining Algebra, Precalculus, and Calculus for underprepared college students – Laura Taalman, James Madison University, Salon 4 Grand Ballroom
E. What is Inquiry-Based Learning, and Why Should You Use It? – Stan Yoshinobu, California Polytechnic State University, San Luis Obispo, Salon 5 Grand Ballroom

9:55 - 10:25 am  BREAK – Grand Foyer

10:25 - 11:40 a.m.  Panel: Deciding how to teach – Salons 2-3 Grand Ballroom
Jim Cottrill, Ohio Dominican University
Kay Somers, Moravian College
John Travis, Mississippi College

11:45 am - 1:10 pm  LUNCH – Grand Foyer

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

2:40 - 3:40 pm  What is the definition of definition? and other mathematical cultural conundrums – Salons 2-3 Grand Ballroom
Carol Schumacher, Kenyon College

3:40 - 4:10 pm  BREAK – Grand Foyer

4:10 - 5:25 pm  Panel: The faculty member as teacher and scholar – Salons 2-3 Grand Ballroom
Rebecca Goldin, George Mason University
John Holcomb, Cleveland State University
Stacey Levine, Duquesne University
Stephen Maurer, Swarthmore College

5:30 - 7:00 pm  DINNER – Grand Foyer

8:00 - 10:00 pm  Social Event for 2009-10 and 2010-2011 Project NExT Fellows and presenters – Marquis C Ballroom

10:00 pm - ?  INFORMAL SOCIALIZING
WEDNESDAY, AUGUST 4

7:00 - 8:30 am  BREAKFAST – Grand Foyer

8:30 - 9:35 am  Informal discussions on topics proposed by the 2010-2011 Fellows
Marquis A Ballroom, Salon 5 Grand Ballroom, Salon 6 Grand Ballroom, Salons 2-4 Grand Ballroom

9:35 - 10:05 am  BREAK – Grand Foyer

10:10 - 11:25 am  Selected topics in teaching undergraduate mathematics II
[Five simultaneous sessions – See information for assignments.]
A.  Using Visualization Software in Abstract Algebra – Brad Emmons, Utica College, Marquis A Ballroom
B.  Making Bio-Math Connections Across the Curriculum – Laurie Heyer, Davidson College, Marquis B Ballroom
D.  Writing Across the Mathematics Curriculum – Cynthia Woodburn, Pittsburg State University, Salon 5 Grand Ballroom
E.  Engaging Students with Classroom Voting – Holly Zullo, Carroll College, MT, Salon 6 Grand Ballroom

11:30 am - 12:15 pm  Small Group Discussions with other Project NExT Fellows
[This session is organized by research area. Please attend the group that best matches your current research interests.]
Group A: Algebra, Group Theory – Marquis C Ballroom
Group B: Analysis – Marquis A Ballroom
Group D: Combinatorics, Graph Theory, Discrete Mathematics – Salon 5 Grand Ballroom
Group E: Differential Equations, Dynamical Systems – A City Center
Group F: Geometry, Algebraic Geometry – Salon 6 Grand Ballroom
Group G: Linear Algebra, Number Theory – B City Center
Group H: Mathematics Education, History of Mathematics – Salon 1 Grand Ballroom
Group I: Probability, Statistics – Pittsburgh Room (10th floor)
Group J: Topology, Set Theory, Logic – The Three Rivers Conference Center (1st floor)

12:15 - 1:30 pm  LUNCH – Grand Foyer

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

(Wednesday continued on next page)
WEDNESDAY, AUGUST 4 (continued)

2:55 - 3:25 pm   Planning session for January Meetings in New Orleans, LA – Salons 2-4 Grand Ballroom

3:25 - 3:55 pm   BREAK – Grand Foyer

3:55 - 5:25 pm   Closing Session – Salons 2-4 Grand Ballroom
                Recognition of 2009-10 Fellows
                Presentation: Finding Your Niche in the Profession
                Joseph Gallian, University of Minnesota Duluth

6:00 – 7:30 pm   Mathfest Opening Reception (cash bar) – William Penn Ballroom/
                Sternwheeler/ Riverboat, Omni William Penn Hotel

7:30 - 9:30 pm   Mathfest Opening Banquet – Grand Ballroom, Omni William Penn Hotel

9:30 pm - ?      INFORMAL SOCIALIZING

THURSDAY AND FRIDAY, AUGUST 5 AND 6

Project NExT Courses During the Mathfest: Four-hour courses meeting in the Omni William Penn Hotel on Thursday and Friday, August 5 and 6. [See information for assignments. Please attend only the course to which you are assigned.]

A. Low Tech Visualization Techniques for Undergraduate Mathematics Classes – Julia Barnes, Western Carolina University, 1:00 - 3:00 pm, Lawrence Welk Room, Omni Hotel
B. Math Courses for Future Elementary and Middle School Teachers – Maria Fung, Worcester State College, 1:00 - 3:00 pm, Shadyside Room, Omni Hotel
C. Undergraduate Research – How to Make It Work – Aparna Higgins, University of Dayton, 1:00 - 3:00 pm, Oakmont Room, Omni Hotel
D. What? You Want Me To Teach the Intro Stat Course? – Robin Lock, St. Lawrence University, 3:15 - 5:15 pm, Lawrence Welk Room, Omni Hotel
E1. Applying for Grants from the National Science Foundation/Getting Your Research Off to a Good Start – Dean Evasius, National Science Foundation, and Joseph Gallian, University of Minnesota Duluth, 3:15 - 5:15 pm, Oakmont Room, Omni Hotel
   Thursday, Dean Evasius (on grants), and Friday, Joe Gallian (on research)
E2. Applying for Grants from the National Science Foundation/Getting Your Research Off to a Good Start – Dean Evasius, National Science Foundation, and Joseph Gallian, University of Minnesota Duluth, 3:15 - 5:15 pm, Shadyside Room, Omni Hotel
   Thursday, Joe Gallian (on research), and Friday, Dean Evasius (on grants)

Project NExT (New Experiences in Teaching) is a professional development program of the Mathematical Association of America for new or recent Ph.D.s in the mathematical sciences who are interested in improving the teaching and learning of undergraduate mathematics. It addresses the full range of faculty responsibilities in teaching, research, and service.