

PROJECT NEXT

NEW EXPERIENCES IN TEACHING

2002-2003 FELLOWS, BURLINGTON, VT

a program of

THE MATHEMATICAL ASSOCIATION OF AMERICA

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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 Burlington, Vermont
July 29 – 31, 2002**

Except as noted, all sessions are in the Living Learning Center on the University of Vermont campus. The Project NExT registration area is on the third floor of the Living/Learning Center.

MONDAY, JULY 29

- 11 am - 1:15 pm Arrival and registration
- 1:30 - 1:45 pm Welcome and opening remarks
 T. Christine Stevens, Project NExT director
 CMS 315
- 2:00 - 2:45 pm Small group discussions – See information for assignments
- | | |
|--------------------|--------------------|
| Group A: Room A101 | Group E: Room B101 |
| Group B: Room A102 | Group F: Room B102 |
| Group C: Room A161 | Group G: Room B132 |
| Group D: Room A162 | |
- 2:55 - 3:45 pm *Senior NExT Moments: Learning from My Peers*
 Martha Siegel, Towson University
 Secretary, The Mathematical Association of America
 CMS 315
- 3:50 - 4:20 pm BREAK – screened porch across from CMS 315
- 4:30 - 5:15 pm Small group discussions [Same room assignments by group as above, but your group assignment may have changed.]
- 5:30 - 7:00 pm DINNER
- 7:30 - 9:00 pm *Conversation with the Leadership*
 Ann E. Watkins, California State University, Northridge
 President, The Mathematical Association of America
 Carl Cowen, Purdue University
 First Vice-President, The Mathematical Association of America
 Terry Herdman, Virginia Polytechnic and State University
 Vice President for Education, Society for Industrial and Applied Mathematics
 CMS 315

TUESDAY, JULY 30

- 7:00 - 8:15 am BREAKFAST
- 8:30 - 9:45 am *Selected topics in teaching undergraduate mathematics I*
 Five simultaneous sessions – See information for assignments
- A. *Teaching Students to Write Proofs* – Carol Schumacher, Kenyon College -- Room A101
 - B. *Making Calculus Meaningful* -- Patti Frazer Lock, Saint Lawrence University – Room A161
 - C. *Writing and the Mathematics Classroom* -- John Meier, Lafayette College – Room A102
 - D. *Group Projects in Upper Division Courses such as Abstract Algebra and Real Analysis* -- Cheryl Chute-Miller, State University of New York, Potsdam – Room B101
 - E. *College Algebra and Precalculus: Rethinking the Preparation for Calculus* – Nancy Baxter Hastings, Dickinson College – Room A162

- 9:55 - 10:25 am BREAK – screened porch across from CMS 315
- 10:25 - 11:40 am Panel: *Using class time well*
 Colin Adams, Williams College
 Margaret Morrow, State University of New York, Plattsburgh
 Margaret Robinson, Mount Holyoke College
 CMS 315
- 11:45 am - 1:15 pm LUNCH
- 1:15 - 2:30 pm Repeat of morning breakout sessions – See information for assignments
- 2:40 - 3:40 pm *A Consumer's View of Mathematics Education Research*
 Daniel Goroff, Harvard University
 CMS 315
- 3:40 - 4:10 pm BREAK – screened porch across from CMS 315
- 4:10 - 5:25 pm Panel: *The faculty member as teacher and scholar*
 Carolyn Gordon, Dartmouth College
 Jan Holly, Colby College
 Donald St. Mary, University of Massachusetts, Amherst
 Gary Towsley, State University of New York, Geneseo
 CMS 315
- 5:30 - 7:00 pm DINNER
- 8:00 - 10:00 pm Social Event for all Project NExT Fellows and invited guests
 Area outside Marsh Dining Hall

WEDNESDAY, JULY 31

- 7:00 - 8:00 am BREAKFAST
- 8:15 - 9:30 am *Selected topics in teaching undergraduate mathematics II*
 Five simultaneous sessions – See information for assignments
- A. *Advising Mathematics Students Academically and Professionally* – James Sellers, Pennsylvania State University – Room A101
 - B. *Math Modeling in the Curriculum* – Catherine Roberts, College of the Holy Cross – Room A161
 - C. *Teaching Geometry with Proofs but No Axioms* – David Henderson, Cornell University – Room A102
 - D. *Teaching the Sophomore Differential Equations Course in the Twenty-First Century* – Robert Devaney, Boston University – Room B101
 - E. *Mathlets for Calculus and Precalculus* – Thomas Leathrum, Jacksonville State Univ. – Room A162
- 9:35 - 10:05 am BREAK – screened porch across from CMS 315
- 10:10 - 11:25 am Panel: *Finding out what your students have learned*
 Roger Cooke, University of Vermont
 Ann Farrell, Wright State University
 Michael Gage, University of Rochester
 CMS 315

- 11:30 a.m.-
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 – CMS 216
Group B: CO, IA, MN, ND, NE, SD, WY – Room A102
Group C: AR, KS, LA, MO, MS, OK, TX – Room A162
Group D: IL, WI – Room B102
Group E: IN, MI, OH – Room B101
Group F: DE, KY, PA, WV – CMS 302
Group G: AL, FL, GA, NC, SC, TN, VI – Room A101
Group H: DC, MD, Metropolitan NYC (ZIP codes 10000-11999 and 12400-12799), NJ, VA – Room B132
Group I: CT, MA, ME, NF, NH, NS, NY (ZIP Codes 12000-12399 and 12800-14999), RI, VT – Room A161
- 12:30 - 1:45 pm LUNCH
- 2:00 - 3:15 pm Repeat of morning breakout sessions – See information for assignments
- 3:15 - 3:55 pm BREAK – adjacent to Marsh Life Sciences Building
- 3:55 - 5:45 pm *Closing Session*
Recognition of 2001-02 Fellows
Presentation: *Finding Your Niche in the Profession*
Joseph Gallian, University of Minnesota, Duluth
Second Vice President, The Mathematical Association of America
Benedict Auditorium (Room 235), Marsh Life Sciences Building
- 7:30 – 9:30 pm Mathfest Opening Banquet
Master of Ceremonies: Underwood Dudley, DePauw University
Presentation: *Who is the Greatest Hitter in the History of Baseball?*
Joseph Gallian, University of Minnesota, Duluth
Emerald Grand Ballroom, Sheraton Hotel

Project NExT Courses During the Mathfest: Four-hour courses meeting 4:10 - 6:00 pm on Thursday and Friday, August 1 and 2.

- A. *Making Liberal Arts Mathematics Meaningful* -- Edward Burger, Williams College, and Michael Starbird, University of Texas, Austin – Room B132
- B. *Cooperative Learning in Undergraduate Mathematics* – William Fenton, Bellarmine University – Room A102
- C. *Planning and Teaching Mathematics Courses for Teachers* – Ann Farrell, Wright State University – Room A162
- D. *Teaching an Introductory Statistics Course* -- Robin Lock, Saint Lawrence University – Room B102
- 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 – Rooms A101, A161
- F. *Undergraduate Research -- How to Make It Work* -- Aparna Higgins, University of Dayton -- Room B132

7/5/02