

**Project NExT Activities
in Washington, DC at the Joint Mathematics Meetings
Tuesday, January 18 - Saturday, January 22, 1999**

Tuesday, January 18, 5:30-7:00 p.m.: Social hour/planning meeting. (Snacks and beverages at 5:30 p.m., followed by discussion of plans for Los Angeles at 6 p.m.)
Maryland Suite A/B, Marriott Wardman Park Hotel.

Tuesday, January 18, 7:15-9:00 p.m.: Dinner and a Date with your Project NExT Friends,
Maryland Suite A/B, Marriott Wardman Park Hotel.

Wednesday, January 19, noon, through Saturday, January 22, noon: Project NExT booth (#50),
next to the MAA exhibit in the Exhibit Area.

Wednesday, January 19, through Saturday, January 22: Project NExT room, The Ambassador
Room, Omni Shoreham Hotel.

Project NExT Program Schedule

**UNLESS NOTED OTHERWISE, ALL EVENTS ARE IN THE AMBASSADOR ROOM,
OMNI SHOREHAM HOTEL.**

Wednesday, January 19

10:00 a.m.-noon *Preparing K-12 Teachers of Mathematics*

This will be a discussion session where Project NExT Fellows share with the group some of the ideas they have used in mathematics courses for future teachers. Anyone is welcome to come and share.

Organizer: Judith Covington, Louisiana State University in Shreveport

2:15-4:15 p.m. *AMS-MAA-MER Special Session on Mathematics and Education Reform.*

Marriott Ballroom III, Marriott Wardman Park Hotel

This Special Session includes four invited papers about Project NExT. It is open to ALL meeting participants, whether or not they are affiliated with Project NExT. Presenters include the director of Project NExT, two Fellows, and the chair of a department that has sponsored several Fellows. The four papers are:

Mathematics departments, new faculty, and Project NExT

T. Christine Stevens, Joseph A. Gallian, and Aparna W. Higgins

From One Community to the NExT

Michele Intermont, Kalamazoo College

New Experiences with Tenure

Douglas Ensley, Shippensburg University of Pennsylvania

Project NExT - A Chair's View

W. James Lewis, University of Nebraska-Lincoln

Wednesday, January 19 (cont'd)

5:00-6:00 p.m. *Creative Research Techniques*

Panelists: Anant Godbole, Michigan Technological University
Elsa Newman, Marymount University
Judy Walker, University of Nebraska
Margaret Wright, Bell Laboratories

Beginning our professional research careers can be a daunting task, whether we are trying to jump-start our research, establish undergraduate research programs, or be more creative in our attempts at doing research. In this session, four panelists share their successes and struggles in this area. After the speakers' presentations, participants will be encouraged to ask the panelists questions concerning creative approaches to research.

Organizers: Jacalyn Huband, Georgia Southern University
Gretchen Matthews, University of Tennessee

Thursday, January 20:

8:00-9:00 a.m. *Beyond the Basics-Teaching Proof Writing in the Classroom*

Presenters: William Barnier, Sonoma State University
Morton Brown, University of Michigan

In this session we will explore pedagogical strategies that emphasize the development of proof-writing and problem-solving abilities for undergraduate students. The speakers will share their experiences with these topics in teaching both introductory and advanced mathematics classes. In addition, they will discuss approaches that build essential skills to help students be successful in the mathematics major. Following the speakers' presentations will be a time of moderated discussion; audience members may ask questions or share effective ideas from their own instructional experience.

Organizers: Matthew Boelkins, Grand Valley State University
D. Paul Phillips, University of Dallas

9:00-10:20 a.m. *Making Connections with Faculty in Other Disciplines*

Diplomat Room, Omni Shoreham Hotel

Panelists: Gregory S. Chirikjian, Johns Hopkins University
Jan E. Holly, Colby College
Daniel P. Maki, Indiana University
Lee L. Zia, University of New Hampshire

Moderator: Joseph A. Gallian, University of Minnesota-Duluth

Colleges and universities, as well as funding agencies, are putting increasing emphasis on teaching and research that cross departmental boundaries. Forging connections with faculty in other disciplines can be a challenging task, especially for faculty members who are relatively new to the institution. The panelists, who include mathematicians and a faculty member from another discipline, will discuss how they established some collaborations, the obstacles that they encountered, and the benefits that they and their institutions derived from their collaborative efforts.

Organizer: T. Christine Stevens, Saint Louis University

(This panel is part of the regular MAA program and is open to everyone attending the meetings.)

Thursday, January 20 (cont'd)

10:30 a.m.-noon *Standards 2000 and Its Implications for the Preparation of Teachers*

Panelists: Francis (Skip) Fennell, Western Maryland College
Joan Ferrini-Mundy, Michigan State University

Joan Ferrini-Mundy and Francis (Skip) Fennell, both members of the Standards 2000 writing team, will speak about NCTM's Standards 2000 and its implications for the preparation of future teachers.

Organizer: Judith Covington, Louisiana State University in Shreveport

noon-1:00 p.m. *Documenting Excellent Teaching*

Panelists: Douglas Ensley, Shippensburg University of Pennsylvania
Helen Moore, Stanford University
John Polhill, Bloomsburg University of Pennsylvania

Panelists in various stages of their careers will present techniques of documenting excellence in teaching. Tenure and promotion will be discussed, as well as the writing of teaching portfolios. We will also consider methods to evaluate teaching that seek to improve effectiveness.

Organizers: Sarah Greenwald, Appalachian State University
John Polhill, Bloomsburg University of Pennsylvania

2:00-3:45 p.m. *Project NExT and Young Mathematicians Network Poster Session*
Hampton Room, Omni Shoreham Hotel

The session will include exhibits from thirty or so new or recent Ph.D.s in the mathematical sciences or from those still pursuing graduate study.

Organizers: Kenneth A. Ross, University of Oregon
Kevin E. Charlwood, Washburn University

(This poster session is part of the regular MAA program and is open to everyone attending the meetings.)

Friday, January 21:

9:00-11:00 a.m. *Cooperative Learning: Issues to Consider, and Strategies that Work*

Presenters: James Cottrill, Illinois State University
William Fenton, Bellarmine College
Sr. Barbara Reynolds, Cardinal Stritch University

This session on cooperative learning will use cooperative strategies to present issues and concerns about cooperative learning. We will address several of the following concerns: creating activities for cooperative investigation, assessing and grading students, establishing positive group dynamics, enticing the reluctant student to participate, covering the syllabus, achieving both breadth and depth of course content. This session will be aimed at participants who have some experience with cooperative learning, and want to know more.

Organizers: James Cottrill, Illinois State University
Daylene Zielinski, Bellarmine College

Friday, January 21 (cont'd):

3:15 p.m.-4:15 p.m. *Promoting the Mathematics Major*
Panelists: Kazem Mahdavi, State University of New York - Potsdam
Frank Mathis, Baylor University
Jody Sorensen, Grand Valley State University

The panelists will present views on recruiting mathematics majors, starting and maintaining active math clubs, and undergraduate math competitions and problem groups. They will then respond to questions generally related to the topic of promoting the mathematics major. There will be time at the end of the session for questions and answers.

Organizers: George Moss, University of Virginia's College at Wise
Colin Starr, Stephen P. Austin State University
Chris Swanson, Ashland University

8:30-10:30 p.m. *Project NExT reception for all Fellows, consultants, and invited guests.*

Ambassador Room in the Omni Shoreham Hotel.

Fellows are encouraged to bring their department chairs, deans and Ph.D. advisors to the reception, at which there will be complimentary refreshments and a cash bar.

Saturday, January 21, 1999

1:00-3:00 p.m. *Getting Your Research Off to a Good Start/Grant-writing*
Presenters: Lloyd Douglas, National Science Foundation
Joseph Gallian, University of Minnesota-Duluth

The grant-writing presentation will cover topics such as general mathematical proposal writing pitfalls to avoid, incorporation of students in mathematical sciences projects, and various grant opportunities at the National Science Foundation. Project NExT fellows will also be able to discuss other issues that are of particular concern to them.

The presentation on getting your research off to a good start will include advice on how to find research problems, write well, and give good talks. There will also be discussion on where to submit your work, and how to get your work known.

Organizers: Matthew DeLong, Taylor University
Elaine McDonald, Sonoma State University

Project NExT (New Experiences in Teaching) is a program for new or recent Ph.D.s in the mathematical sciences. It addresses a broad range of professional issues, focusing on improving the teaching and learning of undergraduate mathematics. Project NExT is sponsored by the Mathematical Association of America, and gratefully acknowledges support from the MAA and the ExxonMobil Foundation.