The Project NExT Colloquium
at The Joint Mathematics Meetings
in Boston
Wednesday, January 4 – Saturday, January 7, 2012

Wednesday, January 4, 12:15 p.m. – Saturday, January 7, noon: Project NExT Booth, #220, part of the MAA exhibit area in Hynes Convention Center, 2nd level, Hall D.

Wednesday, January 4 – Saturday, January 7: Project NExT Session Room, Room 210, Hynes Convention Center.

Project NExT Program Schedule

UNLESS OTHERWISE NOTED, ALL EVENTS ARE IN Room 210, Hynes Convention Center.

Wednesday, January 4

9:30 a.m. - 10:45 a.m.: Beyond Jeopardy! Games for learning mathematics
Panel: Doug Ensley, Shippensburg University
    Rachel Esselstein, California State University, Monterey Bay
    Jim Henle, Smith College
    Shonda Kuiper, Grinnell College

Today's college students have diverse backgrounds, diverse interests and diverse knowledge. To engage our classes fully one of the most important things is to find common ground among them all. But what? One solution is to harness the basic human instincts of cooperation and competition. But how? Many instructors have some experience with using games (such as Jeopardy!) for review purposes. Can we use games to introduce concepts rather than just review? How do you successfully develop a game that is fair, fun, and educational? In this session we will look at innovative ways of incorporating games into the classroom to enhance the educational experience of students in all areas of instruction, not just that of review. We will also discuss how to develop such games on your own and disseminate your ideas to other math instructors.

Organizers (peach11 dots – 2011-2012 Project NExT Fellows):
    Eleanor Farrington, Massachusetts Maritime Academy
    Timothy Goldberg, Lenoir-Rhyne University
    Adam Graham-Squire, High Point University
    Sarah Wright, College of the Holy Cross

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Wednesday, January 4 (cont’d)

2:15 p.m. – 4:15 p.m.:  Project NExT – Young Mathematicians’ Network Poster Session
Veteran’s Auditorium, 2nd floor, Hynes Convention Center
(This session is open to everyone attending the meetings.)
Organizers:  Michael Axtell, University of St. Thomas (gold dot, 2000)
            Kim Roth, Juniata College (forest dot, 2002)

3:30 p.m. – 4:30 p.m.:  Session for consultants for the peach11 Project NExT Fellows
In this session, we invite consultants for the peach11 Project NExT Fellows (2010-11 Fellows) to share ideas about how to be effective consultants.
Organizers (Project NExT team):
            Julia Barnes, Western Carolina University
            Joseph A. Gallian, University of Minnesota-Duluth
            Aparna W. Higgins, University of Dayton

6:00 p.m. – 8:00 p.m.:  The Legacy of R. L. Moore Project – Educational Advancement Foundation Reception
(in conjunction with Project NExT)
Fairfax A, 3rd floor, Sheraton Boston
Meet other Project NExT Fellows and find out more about inquiry-based learning and the Legacy of R. L. Moore Project. Appetizers and refreshments will be served at this private reception.

Thursday, January 5

9:00 a.m. – 10:15 a.m.:  Applying for Research and Education Grants at the National Science Foundation
Presenter: Dean Evasius, National Science Foundation
This is a shortened version of the Project NExT course offered to Fellows at Mathfest. This session will provide an overview on how to apply for grants from the National Science Foundation.
Thursday, January 5 (cont’d)

10:30 a.m. - 11:45 a.m.: Writing, Refereeing, and Publishing: Contributing to the Mathematical Conversation

Panel: Karen Saxe, Macalester College
      Marjorie Wikler Senechal, Smith College
      Jessica K. Sklar, Pacific Lutheran University
      Michael Starbird, University of Texas, Austin

This session will provide direction for new faculty entering the realm of expository mathematics. A panel of speakers will share experience and advice on writing, refereeing, and publishing, addressing such issues as the publishing differences between research and expository articles, selecting and pitching topics, the refereeing process, editor expectations, and how to get started. After the presentations, audience members will have ample time to ask follow-up questions.

Organizers (peach11 dots – 2011-2012 Project NExT Fellows):
      Kaisa Taipale, St. Olaf College
      Rebecca Vessenes, Curry College
      Ursula Whitcher, University of Wisconsin - Eau Claire
      Carl Yerger, Davidson College

1:00 p.m. – 2:00 p.m.: Open Discussion with the Fellows' Department Chairs and Heads

The institutions where the Project NExT Fellows work make a substantial commitment to Project NExT by supporting the travel needed for the Fellows’ participation in Project NExT. In addition to providing background information about Project NExT, this discussion between the leaders of Project NExT and the chairs and heads of departments of mathematics will address two questions: How can institutions get the most out of their investment in Project NExT, and how can Project NExT best help mathematics departments? Department chairs or heads for Fellows from all years are invited.

Organizers (Project NExT team):
      Judith Covington, Louisiana State University Shreveport
      Aparna Higgins, University of Dayton
      P. Gavin LaRose, University of Michigan

2:15 p.m. – 4:15 p.m.: Mathematics Education Swap Session

In this session participants will discuss issues related to the mathematics education of future teachers. In particular, we will be discussing content courses for future teachers at all levels – elementary, middle school and high school. Participants are encouraged to come prepared to share ideas that have worked for them and questions that they have for other participants. It is likely that the session participants will break up into small groups to discuss issues of interest.

Organizer (Project NExT team): Judith Covington, Louisiana State University Shreveport

4:25 p.m. – 5:25 p.m.: Joint Prize Session

Ballrooms A/B, 3rd floor, Hynes Convention Center
(This session is open to everyone attending the meetings.)
Thursday, January 5 (cont’d)

5:30 p.m. – 6:30 p.m.: Joint Prize Session Reception
Ballroom C, 3rd floor, Hynes Convention Center
(This session is open to everyone attending the meetings.)

Friday, January 6

8:00 a.m. - 9:15 a.m.: Building a Tenure Portfolio
Panel: Sean Ellermeyer, Kennesaw State University
Susan Goldstine, St. Mary’s College of Maryland
Shelly Harvey, Rice University
Trent Kull, Winthrop University

Five or more years of hard work culminates in a dense portfolio containing your entire academic life. The portfolio, along with your hopes for tenure, winds its way through a lengthy administrative process. Along the way each reader opens the portfolio with a set of priorities in mind and an idea of what a tenure-worthy candidate looks like. The goals of this Project NExT panel are to define the components required for a strong tenure portfolio and outline short-term and long-term strategies for assembling an outstanding portfolio. Different viewpoints from successfully tenured faculty will be offered addressing the important question, "What will my Tenure Review Committee look for when they examine my portfolio?"

Organizers (peach11 dots – 2011-2012 Project NExT Fellows):
Kristen Abernathy, Winthrop University
M. Brad Henry, Siena College
Erika Ward, Jacksonville University
Erik E. Westlund, Kennesaw State University

9:30 a.m. - 10:45 a.m.: The Scholarship of Teaching and Learning
Panel: Thomas Banchoff, Brown University
Jackie Dewar, Loyola Marymount University
Eileen Fernández, Montclair State University
Gavin LaRose, University of Michigan

What scholarly contributions might we make relative to the innovative ideas and exceptional efforts we put into our teaching? In this session, panelists will share their experiences developing, implementing, and publishing new ideas and materials for teaching mathematics from a variety of institutional contexts. Different forms of publication will be presented, the hows and wheres of publishing will be discussed, and suggestions will be offered for new faculty getting started in this area of scholarship.

Organizers (peach11 dots – 2011-2012 Project NExT Fellows):
Mindy Capaldi, Valparaiso University
Joseph Fera, Lehman College CUNY
Steven Greenstein, University of the Virgin Islands
Julianna Stockton, Sacred Heart University
Friday, January 6

1:00 p.m. - 2:15 p.m.: Successful Capstone Experiences
Panel: Meredith L. Greer, Bates College
       Pete Johnson, Eastern Connecticut State University
       Jason Miller, Truman State University
       Rachel Esselstein, California State University, Monterey Bay

At many institutions, the culmination of the undergraduate math major's career is a capstone experience lasting a semester or year. This experience frequently includes an in-depth project resulting in a paper and/or oral presentation. Some of these projects involve original undergraduate research, while others are literature reviews, explorations of interesting problems, or expositions on other topics. This discussion will focus on tips for finding good project ideas as well as strategies for keeping students motivated and methods for measuring their progress. Panelists will share their expertise in guiding students through the capstone experience, from topic selection to assessment of final project.
Organizers (peach11 dots – 2011-2012 Project NExT Fellows):
       Sam Cook, University of Alaska Anchorage
       Lisa D. Driskell, Colorado Mesa University
       Nathan Moyer, Whitworth University
       Laura Steil, Mars Hill College

2:30 p.m. – 3:50 p.m.: MAA Presentations by Teaching Award Winners
Room 302, Hynes Convention Center
(This session is open to everyone attending the meetings.)

This session consists of presentations by recipients of this year's Haimo Award for Distinguished College or University Teaching. Matthew DeLong, Taylor University, is a brown dot (1999-2000 Project NExT Fellow), and is only the third Project NExT Fellow to receive this award. Cynthia Wyels, California State University Channel Islands, is a consultant to a few groups of Project NExT Fellows.

8:30 p.m. – 10:00 p.m.: Project NExT Reception
Back Bay Ballroom D, 2nd floor, Boston Sheraton
(This event is open to everyone attending the meetings.)

Enjoy meeting Project NExT Fellows, Section NExT Fellows, consultants, and other friends of Project NExT. There will be complimentary desserts and a cash bar.
Saturday, January 7

9:30 a.m. - 10:45 a.m.: Getting Started in Inquiry-Based Learning (IBL)
Panel: Jacqueline Jensen-Vallin, Sam Houston State Univ. and Slippery Rock University
      W. Ted Mahavier, Lamar University
      Lee May, Salisbury University
      Ron Taylor, Berry College

There are many studies and anecdotal evidence for benefits of Inquiry-Based Learning (IBL), a teaching style wherein learning is largely facilitated through inquiry, rather than lecture. However, incorporating this teaching style into the classroom can be a daunting task for instructors; it is completely different from the "standard" college learning experience. One of the modern champions of using IBL in mathematics was R.L. Moore, and so the 'Modified-Moore Method' of teaching often refers to IBL, and vice versa. The panelists, all of whom have extensive IBL backgrounds, will discuss views on the nature and use of IBL in teaching mathematics, suggestions as to how an IBL course might be run, and ways to gradually incorporate IBL into courses at all levels. Panelists will also suggest some currently available resources for those new to teaching an IBL course.

Organizers (peach11 dots – 2011-2012 Project NExT Fellows):
      Randy Cone, Virginia Military Institute
      Aaron Hill, University of North Texas
      Sharon Hutton, Wofford College
      Zahava Wilstein, Berry College

1:00 p.m. – 2:00 p.m.: Getting Your Research Off To A Good Start
Presenter: Joe Gallian, University of Minnesota Duluth

This is a shortened version of the Project NExT course offered to Fellows at Mathfest. This session will provide advice on how to get your research off to a good start. Topics will include: finding problems, writing up your work, presenting your research, and getting your research published.

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Project NExT (New Experiences in Teaching) is a professional development program 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. Project NExT is a program of the Mathematical Association of America with major funding from the Dolciani P. Halloran Foundation, and additional funding from the Educational Advancement Foundation, the American Mathematical Society, the American Statistical Association, the National Council of Teachers of Mathematics, the Association for Symbolic Logic, W. H. Freeman Publishing Company, John Wiley & Sons, MAA Sections and the Mathematical Association of America. More information about Project NExT can be found at http://archives.math.utk.edu/projnext/

We thank peach11 Project NExT Fellows Don Hickethier, Flathead Valley Community College and Katharine Ott, University of Kentucky, for coordinating the planning of the peach11 (2011-2012) Project NExT Fellows’ sessions. We also thank peach11 Project NExT Fellows Kristopher Williams, Doane College, and Dandrielle Lewis, University of Wisconsin, Eau Claire, for organizing the staffing of the Project NExT booth. The 2011-12 Fellows are the 18th group of Project NExT Fellows.