

**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, 2<sup>nd</sup> 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

**Wednesday, January 4 (cont'd)**

**2:15 p.m. – 4:15 p.m.: Project NExT – Young Mathematicians' Network Poster Session**

Veteran's Auditorium, 2<sup>nd</sup> 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, 3<sup>rd</sup> 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.