PROJECT NExT
NEW EXPERIENCES IN TEACHING
2000-2001 FELLOWS, MADISON, WI

a program of

THE MATHEMATICAL ASSOCIATION OF AMERICA

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2000-2001 Project NExT Fellows
Madison Schedule

The Project NExT registration area is in the
Lobby on the basement level of Van Vleck Hall on the U. of Wisconsin campus

TUESDAY, JULY 31

8:00 – 10:00 p.m.   Social Event for all Project NExT Fellows and invited guests
                    See signs in the registration area for location

WEDNESDAY, AUGUST 1

7:00 – 8:00 a.m.   BREAKFAST

8:15 – 9:30 a.m.   TWO concurrent sessions

A.  Motivating Students
B139, Van Vleek Hall
Panelists:
    Steven Deckelman, University of Wisconsin-Stout, deckelmans@uwstout.edu
    Douglas Ensley, Shippensburg University of Pennsylvania, deensl@ship.edu
    Brigitte Servatius, Worcester Polytechnic Institute, bservat@wpi.edu
    Paul Zorn, St. Olaf College, zorn@stolaf.edu
The panelists will discuss topics such as motivating students to work, to think
mathematically, and to enjoy mathematics both in and beyond the classroom. We will
also consider how to encourage individuals of underrepresented groups to become
involved in mathematics and how to recruit and retain mathematics majors
successfully. The discussion will be followed by a question and answer session.
Organizers: Maria Fung, University of Wisconsin-Stout, and David Weinreich,
University of Wisconsin-La Crosse

B.  Undergraduate Mathematical Modeling Courses
B231, Van Vleek Hall
Panelists:
    Keith Howard, Kenyon College, howardk@kenyon.edu
    Gavin LaRose, University of Michigan, glarose@umich.edu
    Kathleen Snook, United States Military Academy, ak7056@usma.edu
Mathematical modeling provides a great opportunity to apply mathematics to real
world problems. This session aims to provide some ideas on how to organize and
deliver an undergraduate mathematical modeling course. The panelists will share their
experiences and expertise on courses at a variety of skill levels. We plan to have a
brief question and answer period at the end of the session.
Organizers: Jeffrey Denny, Mercer University, and Kyle Riley, South Dakota School
of Mines and Technology
9:35 – 10:05 a.m.  BREAK

10:10 – 11:25 am  TWO concurrent sessions

A.  Preparing to be Evaluated, and Learning From Your Evaluations
    B139, Van Vleck Hall
    Panelists:
    Ioana Mihaila, Coastal Carolina University, mihaila@mailbox.coastal.edu
    Wayne Roberts, Macalester College, robertsw@macalester.edu
    Daniel Schaal, South Dakota State University, Daniel_Schaal@sdsstate.edu
    Michael Stob, Calvin College, stob@calvin.edu
    Shirley Wilson, North Central College, saw@noctrl.edu
    This panel discussion will focus on what new faculty should know about preparing for tenure and related evaluations (i.e. pretenure and promotion). Topics will include, but will not be limited to, how to ascertain the administration’s expectations for granting tenure, learning from student and colleague evaluations, how to prepare a self-evaluation, and common (and not-so-common) pitfalls to avoid. The panelists include mathematicians familiar with evaluations from both sides: some have recently gone through tenure or promotion evaluations, while others are, or have been, department chairs, deans, or members of faculty evaluation committees.
    Organizers: Cameron Sawyer, Southwestern University, and Jennifer Ziebarth, Earlham College

B.  Using the Web Effectively in Teaching
    B231, Van Vleck Hall
    Panelists:
    Joseph Gregg, Lawrence University, joseph.n.gregg@lawrence.edu
    Lawrence C. Moore, Jr., Duke University, lang@math.duke.edu
    Darren Narayan, Rochester Institute of Technology, dansma@rit.edu
    David A. Smith, Duke University, das@math.duke.edu
    This panel will discuss a wide range of issues associated with using the world wide web in teaching mathematics. Given the advances in information technology, the web has become an integral part of teaching and research. This session will help to get you started with using the web for teaching. The discussion will include a) effectively using the web (creating an accessible homepage; creating weekly quizzes and homework assignments online; submission and grading; delivering lecture notes; scheduling online office hours); b) some good web resources for classes such as college algebra, calculus, differential equations, linear algebra, etc. and how to effectively incorporate these resources in teaching; and c) concerns regarding security issues (prevention of cheating).
    Organizers: Eugenie Hunsilver, Lawrence University, and Padmanabhan Seshaiyer, Texas Tech University
WEDNESDAY, AUGUST 1 (continued)

11:30 – 12:30 p.m.  Small group discussions with other Project NExT Fellows (organized geographically)  
Group A - AB, AK, AZ, CA, HI, ID, MT, NM, NV, OR, UT, WA – B123, Van Vleck  
Group B - CO, IA, MN, ND, NE, SD, WY – B135, Van Vleck  
Group C - AR, KS, LA, MO, MS, OK, TX – B139, Van Vleck  
Group D - IL, WI – B211, Van Vleck  
Group E - IN, MI, OH – B215, Van Vleck  
Group F - DE, KY, PA, WV – B231, Van Vleck  
Group G - AL, FL, GA, NC, SC, TN, VI – B235, Van Vleck  
Group H - DC, MD, Metropolitan NYC (ZIP codes 10000-11999 and 12400-12799), NJ, VA – B305, Van Vleck  
Group I - CT, MA, ME, NF, NH, NS, NY (ZIP Codes 12000-12399 and 12800-14999), RI, VT – B309, Van Vleck

12:30 – 1:45 p.m.  LUNCH

2:00 – 3:15 p.m.  TWO concurrent sessions

A. Unleash Your Mathematical Magnetism! (All About Attracting Math Majors)  
B139, Van Vleck Hall  
Panelists:  
Edward B. Burger, Williams College, eburger@williams.edu  
Olympia Nicodemi, State University of New York-Geneseo, nicodemi@geneseo.edu  
Joseph Straight, State University of New York-Fredonia, straight@cs.fredonia.edu  
Martha L. Wallace, St. Olaf College, wallace@stolaf.edu  
Robert L. Wilson, Jr., University of Wisconsin-Madison, wilson@math.wisc.edu  
This panel discussion will be devoted to the general topic of attracting students into the math major. More specifically, the discussion will include departmental programs that help attract students, what to do if your department does nothing to attract students, and the question of whether (or in what proportion) to attract first-year students or recruit/steal them from other majors.  
Organizers: Eric S. Egge, Gettysburg College, and Donna L. Flint, South Dakota State University.

B. Discovery Learning  
B231, Van Vleck Hall  
Panelists:  
Charles Allen, Drury University, callen@drury.edu  
W. Ted Mahavier, Nicholls State University, math-wtm@nicholls.edu  
Carol Schumacher, Kenyon College, schumacherc@kenyon.edu  
Reg Taylor, University of the Incarnate Word, traylor@universe.uiwtx.edu  
The members of the panel will make brief statements regarding their experiences, opinions, and suggestions concerning discovery learning. This will be followed by a question and answer session.  
Organizers: Joseph Evan, Kings College, Jonathan Hatch, Southeastern Louisiana University, and Patricia Kiühne, Illinois College.
WEDNESDAY, AUGUST 1 (continued)

3:15 – 3:45 p.m.  BREAK

3:45 – 5:45 p.m.  Closing Session
145, Birge Hall
   Overview of special activities at the Mathfest
   Recognition of 2000-01 Fellows
   Presentation: Finding your Niche in the Profession
      Joseph A. Gallian, University of Minnesota, Duluth

7:30 – 10:00 p.m.  Mathfest Opening Banquet
   Concourse Hotel

Project NExT Courses during the Mathfest

Four-hour courses meeting 4:10 - 6:00 p.m. on Thursday and Friday, August 2 and 3.
See information for assignments.
The afternoon shuttle buses between Witte Hall and Monona Terrace start at 3 p.m. on these two
days. The Monona Terrace pick-up is at Main Entrance on Level 4.

A. Making Liberal Arts Mathematics Meaningful, Edward Burger, Williams
   College, and Michael Starbird, University of Texas, Austin.
   B139, Van Vleck Hall

B. The Highs and Lows of Technology and Modeling in the ODE Course, Michael Moody,
   Harvey Mudd College, B231, Van Vleck Hall

C. Strategies and Ideas for Improving Math Courses Designed for Prospective Teachers, Dale
   Oliver, Humboldt State University, B305, Van Vleck Hall

D. Teaching Undergraduate Statistics: Active Learning, Data, and Concepts, Allan Rossman,
   Dickinson College, and Beth Chance, California State University, San Luis Obispo, B211, Van
   Vleck Hall

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, B215 Van Vleck Hall and B235 Van Vleck Hall

F. Undergraduate Research -- How to Make It Work, Aparna Higgins, University of Dayton,
   B135 Van Vleck Hall on Thursday; B223 Van Vleck Hall on Friday.