PROJECT NExT
NEW EXPERIENCES IN TEACHING
2007-2008 FELLOWS, SAN JOSÉ, CA

A program of
THE MATHEMATICAL ASSOCIATION OF AMERICA

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Project NExT: New Jobs, New Responsibilities, New Ideas
Program for the Workshop in San José, California
July 31 - August 2, 2007

The Project NExT registration area is in MacQuarrie Hall (MH) on the San José State University campus.

TUESDAY, JULY 31

11 am - 1:15 pm  Arrival and registration

1:30 - 1:45 pm  Welcome and opening remarks
               T. Christine Stevens, Saint Louis University
               Director of Project NExT
               Science Building 142

2:00 - 2:45 pm  Small group discussions – See information for assignments
               Group A: MH 222  Group E: MH 233
               Group B: MH 223  Group F: MH 234
               Group C: MH 224  Group G: MH 235
               Group D: MH 225  Group H: MH 323

2:55 - 3:45 pm  Teaching is a Practical Art
                Jennifer Quinn, Association for Women in Mathematics
                Science Building 142

3:50 - 4:20 pm  BREAK – MH Hallway

4:30 - 5:15 pm  Small group discussions [Same room assignments by group above, but your
               group assignment may have changed.]
               Group A: MH 222  Group E: MH 233
               Group B: MH 223  Group F: MH 234
               Group C: MH 224  Group G: MH 235
               Group D: MH 225  Group H: MH 323

5:30 - 7:00 pm  DINNER – Dining Commons

7:30 - 8:45 pm  Joining the Mathematical Community
                Elizabeth Allman, University of Alaska Fairbanks
                Bradford Chin, West Valley College
                Judith Covington, Louisiana State University, Shreveport
                Francis Su, Harvey Mudd College
               Science Building 142

9:00 p.m. - ?  INFORMAL SOCIALIZING
WEDNESDAY, AUGUST 1

7:00 - 8:15 am  BREAKFAST – Dining Commons

8:30 – 9:45 am  Selected topics in teaching undergraduate mathematics I
                [Five simultaneous sessions – See information for assignments.]
                A. Teaching Calculus Using Creative Hands-on Activities – Julia Barnes,
                   Western Carolina University, MH 234
                B. What Really Happens When students Work Online? – Andrew Bennett,
                   Kansas State University, MH 223
                C. Helping Students Learn Linear Algebra – Jane Day, San José State
                   University, MH 225
                D. Advising Mathematics Students Academically and Professionally – James
                   Sellers, Pennsylvania State University, MH 222
                E. Experiencing Spherical Geometry: A Non-Axiomatic Approach to Teaching
                   College Geometry – Christopher Swanson, Ashland University, MH 235

9:55 - 10:25 am  BREAK – Science Building Hallway

10:25 - 11:40 am  Panel: Deciding how to teach
                    Suzanne Dorée, Augsburg College, Minnesota
                    William Higgins, Wittenberg University
                    Teri Jo Murphy, University of Oklahoma
                    Science Building 142

11:45 am - 1:15 pm  LUNCH – Dining Commons

1:15 - 2:30 pm  Repeat of morning breakout sessions – See information for assignments

2:40 - 3:40 pm  Heroes, Foot Soldiers, and in Between: Fulfiling Our Responsibilities Towards
                the World of K-12 Mathematics
                Judith Roitman, University of Kansas
                Science Building 142

3:40 - 4:10 pm  BREAK – Science Building Hallway

4:10 - 5:25 pm  Panel: The faculty member as teacher and scholar
                Sheldon Axler, San Francisco State University
                Amy Cohen, Rutgers University
                Karrolyne Fogel, California Lutheran University
                Herbert Medina, Loyola Marymount University
                Science Building 142

5:30 - 7:00 pm  DINNER – Dining Commons

8:00 - 10:00 pm  Social Event for 2006-07 and 2007-08 Project NExT Fellows and presenters
                  Recreation and Activities Center (RAC Room), Campus Village

10:00 pm - ?  INFORMAL SOCIALIZING
THURSDAY, AUGUST 2

7:00 - 8:30 am  BREAKFAST – Dining Commons

8:30 – 9:35 am  FREE TIME for informal socializing, etc.

9:35- 10:05 am  BREAK – MH Hallway

10:10 - 11:25 am  Selected topics in teaching undergraduate mathematics II
                   [Five simultaneous sessions – See information for assignments.]
                   A.  Discrete Math – Arthur Benjamin, Harvey Mudd College, MH 225
                   B.  “You Can't Do What You Want Without Mathematics, and You Can Do
                        Mathematics”: Two Liberal Arts Mathematics Courses – Judith Grabiner,
                        Pitzer College, MH 233
                   C.  Effectively Using Applied Writing Projects in Calculus and Differential
                       Equations – P. Gavin LaRose, University of Michigan, MH 235
                   D.  Promoting Diversity in Mathematics: Challenges, Opportunities & Ideas for
                       Involvement – Herbert Medina, Loyola Marymount University, MH 234
                   E.  Teaching Students to Prove Theorems – Carol Schumacher, Kenyon College,
                       MH 222

11:30 am - 12:15 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, CO, HI, ID, MT, OR, UT, WA, WY - MH 323
                       Group B - AZ, CA, NV, NM - MH 223
                       Group C - IA, MN, ND, NE, SD - DH 135
                       Group D - AR, KS, LA, MS, MO, OK, TX - MH 225
                       Group E - IL, IN, MI, OH - MH 224
                       Group F - AL, FL, GA, NC, SC, TN, VI - MH 222
                       Group G - DE, KY, PA, WV - MH 233
                       Group H - DC, MD, Metropolitan NYC (ZIP codes 10000-11999 and 12400-
                       12799), NJ, VA - MH 235
                       Group I - CT, MA, ME, NF, NH, NS, NY (ZIP Codes 12000-12399 and 12800-
                       14999) - MH 234

12:15 - 1:30 pm  LUNCH – Dining Commons

1:35 - 2:50 pm  Repeat of morning breakout sessions – See information for assignments.
                (Note that Session C meets in MH 223.)

2:55 - 3:25 pm  Planning session for January Meetings in New Orleans
                Science Building 142

(Thursday continued on next page)
THURSDAY, AUGUST 2 (continued)

3:25-3:55 pm  BREAK – Science Building Hallway

3:55 - 5:25 pm  Closing Session
   Recognition of 2006-07 Fellows
   Presentation: Finding Your Niche in the Profession
      Joseph Gallian, University of Minnesota Duluth

Science Building 142

6:30 – 7:30 pm  Mathfest Opening Reception (Cash bar)
   Regency Lobby, Fairmont San José

7:30 – 9:30 pm  Mathfest Opening Banquet
   Master of Ceremonies: Donald Albers, Mathematical Association of America
   Presentation: Canonical forms: A mathematician’s view of musical canons
      Noam Elkies, Harvard University
   Regency Ballroom, Fairmont San José

9:30 pm - ?  INFORMAL SOCIALIZING

FRIDAY AND SATURDAY, AUGUST 3 AND 4

Project NExT Courses During the Mathfest: Four-hour courses meeting in the Fairmont San José on Friday and Saturday, August 3 - 4. [See information for assignments.]

A. Biological Applications and Mathematical Modeling for Undergraduate Courses – Joseph Mahaffy, San Diego State University, 1:00 - 3:00 pm,
   Plaza Room, Fairmont San José

B. Applying for Research and Education Grants at the National Science Foundation/Starting and Maintaining Your Mathematical Research Program,
   1:00 - 3:00 pm
   Deborah Lockhart, National Science Foundation, Terrace Room, Fairmont San José
   Ezra (Bud) Brown, Virginia Polytechnic Institute & State University,
   Redwood Room, Fairmont San José

C. Teaching an Introductory Statistics Course – Robin Lock, Saint Lawrence University, 3:15 - 5:15 pm, Plaza Room, Fairmont San José

D. Teaching Math Courses for Teachers – Dale Oliver, Humboldt State University, 3:15 - 5:15 pm, Terrace Room, Fairmont San José

E. Undergraduate Research – How to Make It Work – Aparna Higgins,
   University of Dayton,
   3:15 - 5:15 pm, Redwood Room, Fairmont San José

7/5/07