

Northeastern Section NExT Program
WELLESLEY COLLEGE
WELLESLEY, MASSACHUSETTS

Friday, November 21, 2003

10:00-10:30 Registration of prospective Section NExT fellows and preliminary information. (Sage Lounge, Science Center, Floor 2)

10:30-11:30

On-line Animations in Multivariable Calculus and Differential Equations

Paul Blanchard, Boston University, Boston, MA

11:30-11:45 Discussion

11:45-1:00 Lunch

1:00-2:00

Searching for Weapons of Math Instruction

David Abrahamson, Rhode Island College, Providence, RI

Northeastern Section of the MAA
Fall Meeting: November 21-22, 2003
WELLESLEY COLLEGE
WELLESLEY, MASSACHUSETTS
Mathematics- It's Everywhere

Friday, November 21, 2003

2:00 – 6:00 p.m. Registration in Sage Lounge (Science Center, 2nd floor)

2:00 – 3:00 p.m. Executive Committee Meeting (Science Center 273)

2:00 – 5:50 p.m. (Participants may come and go. They will assist in building 4-dimensional items)

Exploring four-dimensional geometry with Zometool

Mira Bernstein, Wellesley College, Wellesley, MA

3:00 – 3:50 p.m.

All You ever wanted to know about patterns in Baseball statistics

Steve Krevisky, Middlesex Community College, Middletown, CT

4:00 – 4:50 p.m.

How has this teacher failed? Let me count the ways...

Emma Previato, Boston University, Boston, MA

5:00 – 5:50 p.m.

Student Papers

6:00 – 6:30 p.m.

Reception

6:40 – 8:00 p.m.

Greetings from the President of Wellesley

followed by Banquet

8:10 – 9:10 p.m.

Geometry, Topology, and the Entanglement Phase Transition

Greg Buck, Saint Anselm College, Manchester, NH

Saturday, November 22, 2003

8:00 – Noon Registration

8:00 – 9:00 a.m. **New Colleagues Presentations**

9:00 – 10:00 a.m.

Fractal Dynamics in Health: Changes with Disease and Aging

Ary L. Goldberger, MD, Director, Rey Institute for Nonlinear Dynamics in Medicine, Beth Israel Deaconess Medical Center, Professor at Harvard Medical School and Program Director of the NIH/NCCR Research Resource for Complex Physiologic Signals

10:00 – 10:30 a.m.

Break

10:30 – 11:30 a.m.

Christie Lecture: Exploring Uncharted Territory in Forced ODE's: Strange and Counterintuitive Periodic Solutions

Lisa Humphreys, Rhode Island College, Providence, RI
11:30 – 12:00 p.m. Business Meeting
12:00 – 1:30 p.m. Lunch
1:30 – 2:30 p.m.

New Perspectives on the Mathematics of Voting and Elections

Stephen Brams, New York University, New York City, NY
2:30 – 3:30 p.m.

A Tintinnabulous Introduction to Group Theory: The British Sport of Change Ringing

Lucy Dechene, Fitchburg State College, Fitchburg, MA
3:30 – 4:30 p.m. **Contributed Papers**

Program Committee:

Frank Ford, Providence College, Chair
Kathy Bavelas, Manchester Community-Technical College
Rebecca Sparks, Rhode Island College
Mary Sullivan, Rhode Island College

Local Arrangements Committee:

Ann Trenk, Wellesley College, Chair
Stanley Chang, Wellesley College
Megan Kerr, Wellesley College