

**SEAWAY SECTION
MATHEMATICAL ASSOCIATION
OF AMERICA**

**2009 SPRING MEETING
April 3-4
Rochester Institute of Technology**

PROGRAM

**Friday Afternoon, Seaway NExT Workshop,
Building 70, Room 2690**

12:15-12:30 Welcome
12:30-1:15 Lunch
1:15-2:45 Session I – *Discussion on grading goals and choices*
2:45-3:00 Break
3:00-4:30 Session II – *Discussion on textbooks and alternatives*
4:30-5:00 *Discussion of plans and ambitions for Seaway NExT/PFF and closing*

(Details of the workshop program are available on the Seaway NExT web site, accessible from http://www.math.binghamton.edu/maa_seaway/)

Friday afternoon, Building 8, Room 3100
3:00 – 6:00 Meeting of the Executive Committee

Friday Evening, RIT Inn & Conference Center

5257 West Henrietta Rd, Rochester, NY, 14586

6:00 – 7:00 Social Hour (cash bar)
7:00 – 8:30 Banquet, and Presentation of Distinguished Teaching Award.
8:30 – 9:30 **Math in a Wicked World**
Ian Gatley, RIT

**Saturday Sessions in
Building 8 (Gosnell)**

Saturday Morning, Building 8 room 1250

08:40 – 08:45 *Welcome address, Dr. Ian Gatley, Dean of College of Science, RIT*
08:45 – 09:35 David Brown, Ithaca College
Experimentation in Mathematics and the First Year Student
09:45 – 10:35 Thomas Zaslavsky, SUNY Binghamton
Eight Queens and More
10:35 – 11:00 Business Meeting
11:10 – 12:00 **Harry M. Gehman Lecture**
Steve Strogatz, Cornell University
The Calculus of Friendship

**12 pm - GROUP PHOTO
Building 8, Atrium**

Lunch: Building 74, Room 2210

Saturday Afternoon Building 8, Room 1300

1:30 – 2:55 AMTNYS panel session
Mickey Jo Sobierajski - Elementary School
Iva Jean Tenant - Middle School
Terry Rice - High School
3:00 – 3:25 Patti Frazer Lock, St. Laurence University
Learning Concepts in Calculus: Some Interesting New Results
3:30 – 3:55 James Halavin, RIT
Retention and the Relationship to First Year Mathematics Courses
4:00 – 4:25 Carl Lutzer, RIT
The Alpha and the Omega of 1st Year Calculus

Saturday Afternoon, Building 08, Room A-300

1:30 – 2:30 *Teachers' Masters Capstone Projects in Secondary and College Mathematics*
Keary Howard (Organizer), SUNY Fredonia
Section 1, Secondary and College Mathematics Achievement
(1) *You Don't have to go Home, but You can't Stay Here: A Study of the Effects of Take-Home Quizzes and Achievement of Calculus Students.* Zachary Kaus, SUNY Fredonia
(2) *To Check or not to Check? A Study of the Effect of a Homework Checking System versus a Homework Collection Policy on Academic Achievement in an*

Introductory College Mathematics Class. Kristen Drobits, SUNY Fredonia
(3) *A Study of the Effects of Guided Note Taking versus Conventional Note Taking in a Pre-Calculus Mathematics Class.* Sarah Yates, SUNY Fredonia
(4) *To Be Organized or not to Be Organized? A Study of the Effects of Notebook Organization on Academic Achievement in Secondary Mathematics Classrooms.* Rachel Olson, Jamestown City Schools
(5) *Is Extra Time Really Helpful? A Study of the Effects of Supplemental Instruction on Achievement in Calculus and Discrete Mathematics Classes.* Maria Oddo, SUNY Fredonia
2:30-3:30 Section 2, Context and Cognition in School Mathematics

(6) *Keep It Fresh: Review Strategies for Cumulative Mathematics Tests.* Michelle Klopff, LoGuidice BOCES
(7) *Misconceptions Related to Integer Operations in Middle School Mathematics Students.* Heather Eckman, SUNY Fredonia
(8) *Is Pencil Better for Math? A Study on the Use of Pen versus Pencil on Standardized Algebra Exams.* Maria Hoak, Silver Creek Central Schools
(9) *A Study of the Effects of Calculator Use on Basic Math Skills Test Scores in the 8th Grade Middle School Mathematics Classroom.* Karen Diehl, SUNY Fredonia
(10) *Is Organization the Key to Success in Mathematics? The Role of Organization through the Use of Notebooks in Eighth Grade Mathematics.* Amanda Lindstrom, Dunkirk City School District
3:30 – 3:55 Elizabeth Wilcox, SUNY Binghamton,
Wreath Products: An Introduction
4:00 – 4:25 Peter Maceli, Ohio State University,
Universal Graphs

Saturday Afternoon, Building 8, Room 1305

1:30 – 1:55 Yozo Mikata, Ph.D., Bechtel
CNT Self-Folding Problems in Two Geometrical Configurations
2:00 – 2:25 Tony Mastroberardino, Penn State Erie,
The Behrend Colege
Three-dimensional equilibrium crystal shapes with corner energy regularization
2:30 – 2:55 Christopher Baltus, SUNY Oswego

Projective Geometry Before Projective Geometry: The Case of Brianchon's Theorem, 1806

3:00 – 3:25 John Maceli, Ithaca College

Fairness and the Problem of Points

3:30 – 3:55 Matt Coppenbarger, RIT

Exploring solids whose parallel cross-sections are regular polygons

4:00-4:25 Antony Harkin, RIT

A Network Theory Approach to Hyperspectral Image Segmentation

Saturday Afternoon, Building 8, Room 2300

1:30 – 1:55 James Marengo, RIT

Bugs Chasing Bugs

2:00 – 2:25 Joshua Palmatier, SUNY Oneonta

Presenting Factoring Trinomials

2:30 – 2:55 Gary Towsley, SUNY Geneseo

Signore Galileo, Are You Joking?

3:00 – 3:25 Larry Knop, Hamilton College

Google's PageRank, the Simple Version

3:30 – 3:55 Paul Seeburger, MCC

Dynamic Visualization Tools for Multivariable Calculus

4:00-4:25 Nick Battista, RIT

Spectrally Accurate Initial Data for Numerical Relativity

Saturday Afternoon, Building 8, Room 2305

1:30-1:55 Erika King, Hobart & William Smith Colleges

Dominating Triangulated Graphs

2:00 – 2:25 Yolande Tra, RIT

Structural Equation modeling for categorical variables

2:30 – 2:55 Chulmin Kim, RIT

A note on Some Structured Antedependence Models for Longitudinal Data

3:00 – 3:25 Marvin Gruber, RIT

Tikhonov Regularization Ridge Regressions and Penalized Splines

3:30 – 3:55 Darren Narayan, RIT

Real World Graph theory

4:00-4:25 Ryan Lewis, RIT

A few problems from the Fibonacci Sequence

Saturday Afternoon, Building 8, Room 2355

1:30 – 1:55 Min Chung, Hatwick College

Perturbations of the Haar wavelet

2:00 – 2:25 Jonathan Hoyle, Eastman Kodak

Introduction to Surreal Numbers

2:30 – 2:55 Gabriel Prajitura, SUNY Brockport

Statistical Convergence

3:00 – 3:25 Manuel Lopez, RIT

In search of a general notion of pseudoinverse.

3:30 – 3:55 Damiel Birmajer, Nazareth College

Substantial sets

4:00-4:25 Likin Romero, RIT

Size Levels and Hyperspace Graph of Connected Subgraphs

Saturday Afternoon, Building 8, Rooms 2130, 2365, 3305 & 3365

1:30 – 4:30 Student Program: Organizer: Derek Habermas, SUNY Potsdam.

Registration, Meals, and Refreshments

Registration will take place in the RIT Inn on Friday evening during the social hour from 6:00 to 7:00, and on Saturday morning from 8:00 until 12:00 in 08-Atrium. Refreshments and the book display will also be in the Atrium on Saturday morning. Lunch will be served in 74-2210.

Accommodations

Blocks of rooms have been reserved at RIT Inn. Please see the meeting website for details.

Meeting Website

Driving directions, maps, an online registration form, information about hotels, and the latest program details may be found at the meeting website

http://www.rit.edu/cos/math/Conferences/MAA/Spring_2009/index.php

4:30 pm - BOOK RAFFLE

Building 8, Room 1250

Please post and distribute.

NEXT MEETING:

2009 FALL MEETING

October 23-24

SUNY Fredonia