

**SEAWAY SECTION
MATHEMATICAL ASSOCIATION
OF AMERICA**

**2006 SPRING MEETING
April 28-29, 2006
Ithaca College**

PROGRAM

Friday Afternoon,

3:00 – 6:00 Meeting of the Executive Committee

Friday Evening, Emerson Suites, Phillips Hall

6:00 – 7:00 Social Hour (cash bar)
7:00 – 8:30 Dinner

8:30 – 9:30 *Mathematics and Physics: Learning from Each Other... and Having Fun Doing It*
Philip Krasicky, Cornell University

Saturday Morning, Textor Hall, Room 102

08:40 – 08:45 *Welcome*
08:45 – 09:35 *Sudo Latin Squares*
James Conklin, Ithaca College
09:45 – 10:35 *The Geometry of Relaxation Oscillations*
John Guckenheimer, Cornell University
10:35 – 11:00 Business Meeting
11:10 – 12:00 ***Polya Lecture***
A Bird's Eye View of the P vs. NP Problem
Steven Rudich, Carnegie-Mellon University

Saturday Afternoon, Williams 302

1:30 – 1:55 *Research and Teaching: working together*
Blair F. Madore and Cheryl Chute Miller, SUNY Potsdam
2:00 – 2:25 *Experiences Teaching Freshman Writing Seminars in Mathematics*
David Biddle, Cornell University
2:30 – 3:55 Panel Discussion
Activities and Manipulatives in Proof Intensive Classes
Dawn Jones, SUNY Brockport

Saturday Afternoon, Williams 303

1:30 - 1:55 *An Historical Basis for Viewing Our Mathematics' True Value as Other Than its Content*
G. Arthur Mihram, Princeton, NJ, Danielle Mihram, USC
2:00 - 2:25 *Determinants and Zero Divisors in Rings of Matrices*
Gary Raduns, Roberts Wesleyan College
2:30 - 2:55 *A Survey of Applied Topology*
William Basener, RIT
3:00 - 3:25 *Matching, Flow and Chromatic Polynomials in Graph Theory*
Hossein Shahmohammed, RIT
3:30 - 3:55 *Rumour Propagation on a Small World Network*
Bernard Brooks, RIT

Saturday Afternoon, Williams 309

1:30 - 1:55 *Fisher Information and the Rao-Cramer Inequality*
James Marengo, RIT
2:00 - 3:25 *Teachers' Masters Capstone Projects in Secondary and College Mathematics*
Keary Howard et al., SUNY Fredonia

Saturday Afternoon, Williams 310

1:30 - 1:55 *A Teaching Apprenticeship Initiative*
Morris Orzech, Queen's University

2:00 - 2:25 *What can a Mathematics department do to improve the preparation of elementary school*
Leo Jonker, Queen's University
2:30 - 2:55 *The Nature of Pre-service Secondary Mathematics Teachers' Knowledge of Mathematics for Teaching of Functions*
Sanghmitra Agarwal, SUNY Buffalo
3:00 - 3:25 *Proofs We Thought Our Students Could Do*
Cristina Bacuta, John Best, R. Bruce Mattingly, SUNY Cortland
3:30 - 3:55 *An Assessment Model for Calculus*
Katrine Danforth, Jayashree Aiyah, Corning Community College

Saturday Afternoon, Williams 317

1:30 - 1:55 *Error propagation and cancellation in two schemes for nonlinear conservation laws*
Marc Laforest
École Polytechnique, Montréal
2:00 - 2:25 *Numerical solution of first kind Volterra integral equations with nonsmooth kernels*
Kevin Dempsey
Clarkson University
2:30 - 2:55 *An Efficient Rescaling Algorithm for the Numerical Simulation of Blow-up Phenomena*
Vincenzo Isaia, Hobart and William Smith Colleges
3:00 - 3:25 *A Statistical Analysis On a Company's Accounts Payable, Using an Empirical Law*
Michael Barbosu, SUNY Brockport
Karen Wells, Monroe Community College
3:30 - 3:55 *Normality Tests based on Empirical Processes*
Yishi Wang, Binghamton University

Saturday Afternoon, Williams 320

1:30 - 1:55 *On the Sum of Squares*
Pat Halpin, SUNY Oswego

- 2:00 - 2:25 *On Thue-Mahler Quartic Diophantine Impossibilities*,
Anurag Agarwal, RIT
- 2:30 - 2:55 *A Formula for Following Euler's Approach*
Charles Ragozzine, Jr., SUNY Oneonta
- 3:00 - 3:25 *Optimization Problems or just Patterns?*
Claudiu Mihai, Daemen College
- 3:30 - 3:55 *Iterated Function Systems (IFS's) and Fractals*
Isa S. Jubran, SUNY Cortland

Saturday Afternoon, Williams 202 and 211 Student Program: Organized by Jeff Johannes of SUNY Geneseo. There will be two parallel sessions of student talks. Each talk will be fifteen minutes long

Registration, Meals, and Refreshments

Registration will take place in Phillips Hall, Emerson Suites on Friday evening during the social hour from 6:00 to 7:00, and on Saturday morning from 8:00 until 11:00 in the Textor Hall Lobby. Refreshments will be available in the registration area on Saturday morning. A buffet lunch will be served from noon to 1:20 in Phillips Hall.

Directions to Ithaca College

From the New York City Area

Follow Route 17 (soon to be I-86) west to Binghamton and take I-81 north to exit 8 at Whitney Point. Follow Route 79 west into Ithaca. At T-intersection turn left onto Route 96B (Aurora St.) and follow 96B south for approximately one mile. The campus will be on your left.

From Albany and New England

Follow the New York State Thruway (I-90) west to I-88 (exit 25A). Take I-88 west to Bainbridge (exit 8) and then Route 206 to Whitney Point. Pick up Route 79 west to Ithaca. At T-intersection turn left onto Route 96B (Aurora St.) and follow 96B south for approximately one mile. The campus will be on your left.

From Rochester and Buffalo

Follow the New York State Thruway (I-90) east to exit 41 at Waterloo. (Do not follow the signs that direct you to Ithaca via Geneva.) Turn right after the toll booth (onto Route 414 south), then left at the red light (onto Route 318 east). Follow Route 318 east several miles. At the T-intersection turn left, then a quick right onto Route 89 to Ithaca. Pick up Route 13 south in Ithaca. After passing Green St., move into the far left lane and go straight onto Route 96B (Clinton St.). Turn right onto Aurora St. (still 96B) and continue for approximately one mile. The campus will be on your left.

From Eastern Pennsylvania and Points South

Take I-81 north to Whitney Point (exit 8). Pick up Route 79 west to Ithaca. At T-intersection turn left onto Route 96B (Aurora St.) and follow 96B south for approximately one mile. The campus will be on your left.

From Erie, Pennsylvania, and Points West

Follow Route 17 (soon to be I-86) east to exit 54 and take Route 13 north into Ithaca. Turn right onto Route 96B (Clinton St.) and continue to Aurora St. Turn right onto Aurora St. (still 96B) and continue for approximately one mile. The campus will be on your left.

From Syracuse and Points North

Follow I-81 south to Cortland (exit 12). Take Route 281 south to Route 13 south to Ithaca. After passing Green St., move into the far left lane and go straight onto Route 96B (Clinton St.). Turn right onto Aurora St. (still 96B) and continue for approximately one mile. The campus will be on your left.

Accommodations

Blocks of rooms have been reserved at the first two hotels on the list. Mention the Seaway Section Math Conference or SSM when making reservations.

Holiday Inn
222 South Cayuga St.
607-272-1000
30 rooms: \$109.99 two Queen beds, \$129.99 one king bed in the tower
One mile from campus.

Comfort Inn
356 Elmira Rd.
607-272-0100
25 rooms: \$89
Three miles from campus.

Super 8
400 South Meadow St.
607-273-8008
2 miles from campus

Hampton Inn
337 Elmira Road
607-277-5500
3 miles from campus

Meeting Website

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

www.ithaca.edu/math/seawaymeeting/

Please post and distribute.

2006 FALL MEETING

**Joint meeting with the Metro Section
October 13, 14, 2006**

Marist College

Poughkeepsie, NY