



**NPSMA BEST PRACTICES WORKSHOP**  
**October 13-15, 2011**  
**Sheraton At The Falls, Niagara Falls, NY**

**"Creating Tomorrow's  
Mathematics Professionals"**

**Agenda**

**Thursday October 13**

- 5:00 – 6:00 p.m.     **Registration**
- 6:00 – 6:05         **Welcome**  
Dagmar Beck, NPSMA President  
PSM Program Director, Rice University
- 6:05 – 6:10         **Greeting and Remarks**  
Kevin Railey, Associate Provost and Dean of Graduate School, Buffalo State College
- 6:10 – 7:10         **Keynote Speaker**  
**PSM Math Grads: Where are they Working? What are they Doing?**  
Sheila Tobias, NASH-PSM project
- 7:10 – 8:30         **Reception and Annual NPSMA Members' Meeting**  
Members and non-members are welcome. Cash bar.

**Friday October 14**

- 7:30 – 8:30 a.m.     **Breakfast**
- 8:30 – 9:00         **Registration**
- 9:00 – 9:10         **Welcome**  
Bogdan Vernescu, NPSMA Vice President  
Professor of Mathematics and Department Head, Worcester Polytechnic Institute
- Joaquin Carbonara, Professor of Mathematics  
Buffalo State College
- 9:10 – 9:15         **Greeting and Remarks**  
Mark Severson, Dean of the School of Natural and Social Sciences  
Buffalo State College

- 9:15 – 10:15 **Keynote Speaker**  
**2001 Math in Industry Report – An Overview**  
 William Kolata, Technical Director  
 Society for Industrial and Applied Mathematics (SIAM)
- 10:15 – 10:30 **Break**
- 10:30 – 11:00 **Presentation Title: TBA**  
 David King, Dean, Graduate Studies and Research  
 State University of New York – Oswego
- 11:00 – 11:30 **Preparing Academic Scientists for Careers in Industry**  
 Randall Ribaldo, President & CEO  
 Human Workflows, LLC
- 11:30 – 12:00 **WPI PSM Programs in Financial Mathematics and Industrial Mathematics:  
 An Overview with Alumni and Student Cases**  
 Marcel Blais, Coordinator, Professional Master of Science Program  
 Worcester Polytechnic Institute
- 12:00 – 1:30 **Lunch**
- 1:30 – 2:30 **Technology, Data, Analytics: New Possibilities in our Lives**  
 Lilian Wu, Program Executive, Global University Programs  
 IBM
- 2:30 – 3:00 **Preparing Students for the Future of Analytics**  
 Aric LaBarr, Teaching Assistant, Professor of Statistics, Institute for Advanced Analytics  
 North Carolina State University
- 3:00 – 3:30 **Data Mining in Consumer Lending: Skills, Software and Implementation**  
 Teresa Eller, Consumer Credit Risk  
 M & T Bank, Buffalo, NY
- 3:30 – 3:45 **Break**
- 3:45 – 4:45 **Keynote Speakers**  
**Innovation in Graduate Education**  
 Myles Boylan, Program Director, Directorate for Education and Human Resources  
 Division of Graduate Education, National Science Foundation (NSF)  
  
 Carol Stoel, Program Officer, Directorate for Education and Human Resources  
 Division of Graduate Education, National Science Foundation (NSF)
- 4:45 – 5:15 **Blending Knowledge, Skills and Experience in a Professional Science Master's Program**  
 Paul Eloe, Professor of Mathematics  
 University of Dayton
- 5:15 – 5:45 **Project Management Skills for Math and Science Professionals**  
 Lorena Mathien, Coordinator, Professional Master of Science Program  
 Buffalo State College
- 5:45 – 6:15 **Showcase of Innovative Graduate Degree of the PSM in Industrial Mathematics  
 at Michigan State University**  
 Peiru Wu, Associate Professor and Program Director, PSM in Industrial Mathematics  
 Michigan State University
- 6:15 **Poster Session**

**Saturday October 15**

- 7:30 – 9:00 a.m. **Breakfast**
- 9:00 – 10:00 **Keynote Speaker**  
**How Mathematics can Help all Stages of Drug Development**  
Birgit Schoeberl, Vice President of Discovery  
Merrimack Pharmaceuticals
- 10:00 – 10:15 **Break**
- 10:15 – 10:45 **Integrating Theory and Practice in Developing Courses that Bridge Technical and Professional Development: A Case Study from a Course in Markov Chain Modeling and Credit Risk Management**  
Matthew Nagowski, Vice President, Credit Risk Management  
M & T Bank, Buffalo, NY
- 10:45 – 11:15 **PSM in Industrial Mathematics: The Northern Iowa Experience**  
Syed Kirmani, Professor of Mathematics  
University of Northern Iowa
- 11:15 – 11:45 **Professional Skills for Mathematicians: Courses and Internships**  
Sangya Varma, Curriculum Coordinator, PSM Program  
Rutgers, The State University of New Jersey
- 11:45 – 12:00 **Wrap- up**  
Bogdan Vernescu, NPSMA Vice President  
Professor of Mathematics and Department Head, Worcester Polytechnic Institute
- 12:15 **Lunch**