

Join SIAM in Pittsburgh



www.siam.org/meetings/an10



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2010 SIAM Annual Meeting

July 12-16, 2010
The David Lawrence Convention Center
Pittsburgh, PA
www.siam.org/meetings/an10

Art courtesy Randy LeVeque, Christiane Helzel, & Donna Calhoun from SIAM Review 50-4



Invited Speakers

Timothy J. Barth, *NASA Ames Research Center*
Carson Chow*, *National Institutes of Health*
Jesús A. De Loera, *University of California, Davis*
David Donoho, *Stanford University*
Charles Fefferman, *Princeton University*
Inez Fung, *University of California, Berkeley*
Leslie F. Greengard, *Courant Institute of Mathematical Sciences, New York University*
Olga Holtz, *Technische Universität Berlin, Germany and University of California, Berkeley*
Xiaoye Sherry Li, *Lawrence Berkeley National Laboratory*
Clas Jacobson, *United Technologies Research Center*
Tamara G. Kolda, *Sandia National Laboratories*
Steven E. Shreve, *Carnegie Mellon University*
Gigliola Staffilani, *Massachusetts Institute of Technology*
Kim-Chuan Toh, *National University of Singapore, Singapore*
Gunther Uhlmann, *University of Washington*
Charles Wampler, *General Motors Research and Development Center*

*Joint speaker with the SIAM Conference on the Life Sciences

Special Lectures

AWM-SIAM Sonia Kovalevsky Lecture
Recipient to be Announced
Julian Cole Prize Lecture
John R. King, *University of Nottingham, United Kingdom*
W. T. and Idalia Reid Prize in Mathematics Lecture
John A. Burns, *Virginia Tech*
John von Neumann Lecture
Bernd Sturmfels, *University of California, Berkeley*

Prizes and Awards Luncheon

The following prizes and awards will be presented at the luncheon on
Tuesday, July 13, 12:30—2:30 PM

- Recognition of the Class of 2010 SIAM Fellows
- I. E. Block Community Lecture
- Julian Cole Lectureship
- Richard C. DiPrima Prize
- AWM-SIAM Sonia Kovalevsky Lecture
- George Pólya Prize
- W. T. and Idalia Reid Prize in Mathematics
- SIAM Award in the Mathematical Contest in Modeling
- SIAM Outstanding Paper Prizes
- SIAM Prize for Distinguished Service to the Profession
- SIAM Student Paper Prize
- The John von Neumann Lecture

Organizing Committee

Co-chairs

Barbara Lee Keyfitz, *The Ohio State University*
Lloyd N. Trefethen, *Oxford University, United Kingdom*

Ansu Bagchi, *Merck & Company, Inc.*
John Chadam, *University of Pittsburgh*
Michael Dellnitz, *Universität Paderborn, Germany*
Bard Ermentrout, *University of Pittsburgh*
Andreas Frommer, *Bergische Universität Wuppertal, Germany*
David Keyes, *Columbia University and King Abdullah University of Science and Technology, Saudi Arabia*
Giovanni Leoni, *Carnegie Mellon University*
Juan C. Meza, *Lawrence Berkeley National Laboratory*
Dianne P. O'Leary, *University of Maryland at College Park*
Fadil Santosa, *University of Minnesota*
Katya Scheinberg, *IBM*
Stephen A. Vavasis, *University of Waterloo, Canada*

Community Lecture

Wednesday, July 14, 6:15–7:15 PM

I.E. Block Community Lecture
Dmitri Tymoczko, *Princeton University*

Exhibits

Publishers, software and hardware suppliers, and service organizations that have products to offer to conference attendees are invited to exhibit. For additional information and exhibit fees, please contact the SIAM marketing representative at marketing@siam.org.

Workshop Celebrating Diversity (WCD)

Organizers:
Janet Best, *The Ohio State University*
Erika Camacho, *Arizona State University*
Tanya (Henneman) Moore, *Building Diversity in Science*

This annual event provides a forum for scientific interaction among a truly diverse group of participants. A majority of speakers will be women and members of underrepresented groups, ranging from beginning graduate students to senior scientists. Everyone is welcome to attend the talks of these symposia which will be scheduled throughout the week.

Hotel Information

Visit www.siam.org/meetings/an10/hotel.php

Westin Convention Center, Pittsburgh
(Headquarters Hotel)
1000 Penn Avenue
Pittsburgh, Pennsylvania 15222
Phone: +1-412-281-3700

This hotel is connected by a skywalk to the David L. Lawrence Convention Center, where all SIAM sessions and events will take place.

Omni William Penn Hotel
530 William Penn Place
Pittsburgh, Pennsylvania 15219
Phone: +1-412-281-7100

Register

www.siam.org/meetings/an10reginfo.php

Students can register for the 2010 SIAM Annual Meeting being held July 12–16 in Pittsburgh for the reduced rate of \$100. Student Days are included.

The 2010 SIAM Annual Meeting is being held in conjunction with the
SIAM Conference on the
Life Sciences
July 12–15, 2010
Sponsored by the
SIAM Activity Group on the Life Sciences
www.siam.org/meetings/lis10

siam Society for Industrial and Applied Mathematics

Students —

Activities just for you at the 2010 SIAM Annual Meeting in Pittsburgh



Student Days at the 2010 SIAM Annual Meeting is *for* students and *about* students. Organizers have planned activities and sessions where students can meet with both peers and professionals in their field, participate in a career fair, attend an information session on hot areas for jobs and research, and network with SIAM Student Chapters from all over the world.

Goals

Organized by the SIAM Education Committee (Chaired by Peter Turner, *Clarkson University*), Student Days are designed to encourage student participation in SIAM, to help students learn more about applied mathematics and computational science as both fields of study and as careers, and to provide a forum for emerging mathematicians to learn about their field from the professionals who know the answers. Organizers also hope to encourage those in the learning community to establish new student chapters of SIAM and to promote interaction between students and SIAM leadership.

Events and Happenings

Student Days sessions include presentations by student chapter representatives and by participants in the Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS), an opportunity for undergraduates to submit posters for the AN10 poster session, presentations by the winners of the SIAM Award in the Mathematical Contest in Modeling (MCM), the SIAM Student Paper Prizes, a Career Fair, and much more.

Meeting with Leaders and Influencing SIAM (by invitation only)

Student Days 2010 also features the "Student Chapter Meeting with SIAM Leadership." This meeting gives faculty advisors and student chapter representatives the opportunity to meet with key decision makers to discuss ideas for improving student chapters and ways that SIAM can meet the needs of current and future student members all over the world. Each chapter selects one student to attend the event as its representative.

Career Fair

Monday, July 12, 7:15 – 9:15 PM

The SIAM Career Fair is an informational and interactive event at which employers and prospective employees can discuss careers. It is a great opportunity for prospective employees to meet government and industry representatives and discuss what they are looking for and what each employer has to offer.

Professional Development Evening

Thursday, July 15 6:15–9:15 PM

Organizers:

Danny Dunlavy, *Sandia National Laboratories*
John Geddes, *Franklin W. Olin College of Engineering*
Suzanne Shontz, *Penn State University*

Association for Women in Mathematics (AWM)

www.awm-math.org/workshops.html

The "Workshop for Women Graduate Students and Recent Ph.D.s" is held in conjunction with the SIAM Annual Meeting.

Register

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Student Days Schedule Tuesday, July 13, 2010

7:00–8:15 AM	Student Chapter meeting with SIAM Leadership
8:30–10:00 AM	AN10 and LS10 invited speaker sessions
10:00–10:30 AM	Coffee break
10:30 AM–12:30 PM	SIAM Student Chapter Presentations Organizer: Peter Turner, <i>Clarkson University</i> <ul style="list-style-type: none">• <i>Option Pricing Using Monte Carlo Methods</i>, Steven Melanson, <i>California State University, Sacramento</i>• <i>Understanding the Impact of Low Permeability Media on Groundwater Remediation</i>, Xiaojing (Ruby) Fu, <i>Clarkson University</i>• <i>Talk title to be announced</i>, Silvia Jimenez, <i>Louisiana State University</i>• <i>Simultaneous Seismic Imaging and Inversion Using an Inverse Scattering Algorithm for One Dimensional Media</i>, Ashley Ciesla, <i>Montclair State University</i>• <i>Tracemin: A Parallel Symmetric Eigensolver</i>, Eric Cox, <i>Purdue University</i>• <i>A Novel Pseudospectral Method for Solving a Nonlinear Volterra Partial Integro-differential Equation on a Polar Geometry</i>, Keith J. Wojciechowski, <i>University of Colorado at Denver</i>
12:30–2:30 PM	Prizes and Awards Luncheon
2:30–3:30 PM	John von Neumann Lecture
3:30–4:00 PM	Coffee break
4:00–5:00 PM	SIAM/MCM award winners presentations
5:00–6:00 PM	SIAM Student Paper Prize winners' presentations
8:00–10:00 PM	Joint Poster Session (AN10, AWM, LS10) and dessert reception includes an undergraduate poster competition offering prizes for the three best posters demonstrating research done by undergraduates in applied and computational mathematics.

Wednesday, July 14, 2010

10:30 AM–12:30 PM	CSUMS presentations
4:00–6:00 PM	CSUMS presentations

CASH PRIZES!

Undergraduate students—present your research poster at AN10

Submission deadline: May 1, 2010

Undergraduates are invited to participate in the poster session at the 2010 SIAM Annual Meeting. Submissions should be sent to siaman2010@gmail.com by May 1, 2010.

Cash prizes will be awarded to the three best posters demonstrating research done by undergraduates in applied and computational mathematics.

Complete information is available at www.siam.org/meetings/an10/undergraduate.php.

