SIAM Unwrapped - Special Issue Annual Meeting 2013

News & announcements for the SIAM membership community
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Dear SIAM members,

If you haven't already, now is the time to register for the 2013 SIAM Annual Meeting! Held jointly with the SIAM Conference on Control and its Applications from July 8-12 in beautiful San Diego, California, it is safe to assume that discussions on cutting-edge research and state-of-the-art applications in the mathematical sciences will not be the only exciting thing about the meeting.

In this issue, get an idea about what to expect at the meeting. And register for the meetings at the link below:
https://my.siam.org/conferences.aspx

Hotel and other meeting-related information can be found through the right-hand navigation bar on the conference websites. We look forward to seeing you in San Diego!

Regards,
Karthika Muthukumaraswamy
Editor

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::: AN13 & CT13 UPDATES :::

Chime in at the Annual Business Meeting

The SIAM Annual Business Meeting will be held on Tuesday, July 9, at 6:15 p.m. at the Town and Country room in the Convention Center. Members can attend the business meeting and voice their thoughts and views on a wide range of issues such as SIAM publications, activity groups, student chapters, and outreach activities. The business meeting is held each year as required by SIAM's bylaws. SIAM officers will give an overview of various programs and activities. Light fare and beverages will be served. The SIAG/CST will also hold its business meeting on Tuesday, July 9, at 7:30 p.m. in the San Diego room.

Check out the line-up of invited speakers

Electricity market models; technologies for energy-efficient systems; strategic sustainability efforts by companies; modeling of conservation decisions; information sharing in social networks; self-driven particles and traffic jams; and correlation and causality in dynamical systems are just some of the topics to be explored by invited speakers at the SIAM Annual Meeting and Conference on Control and its Applications.

View the full list of plenary speakers at AN13 and CT13 at the links below:

http://www.siam.org/meetings/an13/invited.php

http://www.siam.org/meetings/ct13/invited.php

Check out the entire program for AN13 and CT13.

Prize Lectures and Awards Luncheon

SIAM's extensive prize program recognizes outstanding applied mathematicians and computational scientists each year. As is customary, prize recipients this year represent distinguished professionals from a variety of different backgrounds and fields: Margaret Cheney of Colorado State University and Naval Postgraduate School will deliver the AWM-SIAM Sonia Kovalevsky Lecture; Massachusetts

Institute of Technology's Anette Hosoi will deliver the I. E. Block Community Lecture; and Stanley Osher from the University of California, Los Angeles, will present The John Von Neumann Lecture. Tyrone Duncan of the University of Kansas will give the lecture associated with the W. T. and Idalia Reid Prize in Mathematics; Stanford University's Lexing Ying will deliver the James H. Wilkinson Prize lecture. Nick Trefethen of Oxford University will give the Past President's Address.

During CT13, Ricardo Sanfelice of University of Arizona will deliver the lecture associated with the SIAG/CST Prize. Jean-Pierre Raymond of Universite Paul Sabatier Toulouse III in France and Jiongmin Yong of University of Central Florida are each recipients of the 2011 SIAG/CST Best SICON Paper Prize, and will both present their winning papers. The two papers awarded the 2013 Best SICON Paper Prize will also be presented.

Recipients will receive their awards at the Prizes and Awards Luncheon to be held Tuesday, July 9, from 12:30-2:30 p.m. in the Golden Ballroom. The Luncheon is free with registration.

Find details on prize lectures for AN13 and CT13 at the links below:

http://www.siam.org/meetings/an13/invited.php

http://www.siam.org/meetings/ct13/prizes.php

Student activities at AN13

Student events at this year's Annual Meeting will begin with a student orientation prior to the welcome reception on Sunday, July 7. An industry panel discussing the many facets of using applied math to solve industrial problems will be held on Monday evening from 6:15-7:15 p.m., followed by the career fair. SIAM student chapters will meet with SIAM leadership for a breakfast meeting on Tuesday, July 9. Students can meet with and interact one-on-one with invited speakers at an informal evening session on Tuesday. The Poster Session and Dessert Reception also on Tuesday evening will provide an opportunity for students and other attendees to present their research. SIAM Student Paper Prize winners and SIAM/MCM Award recipients will present their winning papers in morning and afternoon sessions on Wednesday, July 10. Don't forget to attend the SIAM book giveaway, which will be held in the Exhibit Hall on Thursday afternoon. A student lounge located in the Exhibit Hall will provide an opportunity for students to network with other attendees through the duration of the meeting.

View details on all the above and a schedule here:

http://www.siam.org/meetings/an12/studentday.php

Scientific and technical sessions by SIAM chapters

For the past ten years, six SIAM student chapters have been invited each year to send representatives to the SIAM Annual Meeting to present their research in a special minisymposium session organized by SIAM Education Committee chair, currently Peter Turner of Clarkson University. The 2013 Annual Meeting will hold two minisymposia featuring chapters, expanding invited chapters to 12 this year.

"With the extensive growth of student chapters, and student membership in general, over the past ten years, the expected interval between an individual chapter being invited was around 20 years, so we needed to increase the number of opportunities for chapter representatives to share their research," said Turner. "These minisymposia give an excellent opportunity to showcase some of our students' work, and to enable chapter representatives to benefit from the meeting."

The two minisymposim sessions will be held Monday, July 8 from 4:00-6:00 p.m. and Tuesday, July 9, from 10:30 a.m. - 12:30 p.m.

Career and networking events

Among the many career development activities at AN13 is the Applied Mathematics and Computational Science Career Fair, to be held 7:15-9:15 p.m. on Monday, July 8. An informational and interactive event, it will offer a forum for employees to speak with prospective employers, as well as discuss opportunities and professional development ideas. Jobseekers will meet government and industry representatives to learn the makeup of an ideal candidate and to hear what each employer has to offer. Find details at http://www.siam.org/meetings/an13/career.php.

Employers who wish to participate in the career fair can visit the above page for details. There is no fee for participation! Those interested in attending the technical program must register for the Annual Meeting.

The Professional Development Evening, to be held 6:15-9:15 p.m. on Thursday, July 11, and organized by the Education committee working group, will also give students abundant opportunities for career enhancement.

Attendees, don't forget to pick up a copy of SIAM's latest careers brochure at the registration desk. You can read more about *Careers in Applied Mathematics,* a 20-page booklet that details career paths outside academia for those majoring in applied mathematics or computational science. It is also available for free download at http://www.siam.org/careers/thinking/pdf/brochure.pdf.

Visit our exhibitors and sponsors

In addition to getting a cup of coffee (and one's bearings) in between sessions, there are other reasons to visit the Exhibit Hall at AN13. It will feature vendors and exhibitors including publishers, software and hardware suppliers. Visit the SIAM booth as well as exhibits by Oxford University Press, CRC Press/Taylor & Francis, Cambridge University Press, Princeton University Press, AMS, and the MathWorks, to mention just a few. Free wifi and Internet stations will also be available.

If you would like to exhibit, please contact the SIAM marketing representative at marketing@siam.org. You can view the AN13 Exhibitor Kit at http://www.siam.org/meetings/an13/an13_exhibitor.pdf.

Sponsorship opportunities are still available! Please visit the following link for details: http://www.siam.org/meetings/sponsor.php.

AN13 & CT13: There's an app for it

Mobile phone apps for AN13 and CT13 will soon be available for free download on various platforms and devices. The mobile app will allow attendees to view the schedule, look up speaker, attendee, and exhibitor lists, view maps and building layouts, sync events with their mobile calendars, and even create their own shows by selecting specific sessions. Attendees can download the app by searching for SIAM, AN13 or CT13 in the App Store or Android Market. You can also post and share content through social networks such as Facebook and Twitter. Don't forget to tweet your thoughts, suggestions, photos, and video, before, during and after the meeting. Please use hashtag #SIAMAN13 for the Annual Meeting and #SIAMCT13 for the Control and Applications meeting.

Workshop on Network Science

The [SIAM Workshop on Network Science (NS13)](#) begins the day prior to the Annual Meeting at the same venue (Town and Country Resort & Convention Center, San Diego, California) on July 7-8, 2013. The workshop seeks to build a community around mathematical and computational aspects of network science, comprising of multi-disciplinary researchers who seek to develop, interact and collaborate on various topics pertaining to network science with an emphasis on rigorous computational and mathematical techniques. Lada Adamic of the University of Michigan and Aravind Srinivasan of the University of Maryland will deliver invited lectures.

The workshop program is available here:
http://www.siam.org/meetings/networks13/ns13_progrram.pdf

The pre-registration deadline is Monday, June 10, 2013. Register here:
https://www.siam.org/meetings/networks13/regform.php

What to do in San Diego

With near-perfect weather all year-round, scenic drives, and miles of beaches, San Diego offers a variety of visitor attractions. The conference venue is just minutes from Seaworld Adventure Park, home of the world-famous whale, Shamu. Terrestrial wildlife isn't too far either. The San Diego Zoo, home to 4000 rare and endangered animals, is close to the Town and Country Resort Hotel. Visitors can ride the Skyfari gondola to see the zoo from a vantage point above the exhibits. Balboa Park, featuring a collection of gorgeous botanical gardens, is another attraction minutes from the hotel and can be experienced by walking or riding the free tram. The San Diego Natural History Museum, Timken Museum of Art, the Air and Space Museum, and the Old Globe Theatre are just a few of the other popular tourist destinations close to the Town and Country Resort. View the full list:

http://www.towncountry.com/sites-attractions/default-en.html.

Also view tourist recommendations from the San Diego Tourism Authority:

http://www.sandiego.org/what-to-do.aspx.

::: OTHER UPDATES :::

Mathematical sciences in 2025 Report

The full report on Mathematical Sciences in 2025 from the National Academies Press is now available for download:

http://www.nap.edu/catalog.php?record_id=15269

The report analyzes the current state of various fields under the umbrella of the mathematical sciences, presenting ideas to ensure that the discipline remains in a strong position, and is capable of maximizing its contributions to the nation in 2025. The report recommends the reassessment of training for future generations of mathematical scientists in light of the growing cross-disciplinary nature of the field. Download the full report at the link above.

NC13 presentations now available on SIAM Presents

Presentations of select sessions from the 2013 SIAM Conference on Numerical Combustion are now available on SIAM Presents…Featured Lectures from Our Archives. View and listen to invited lectures and minisymposia in a range of areas focusing on integration of theory, modeling, and numerical implementation in the study of basic combustion physics and technological applications.

Please go to the direct link to view the sessions captured at NC13:

https://live.blueskybroadcast.com/bsb/client/CL_DEFAULT.asp?Client=975312&PCAT=5671&CAT=6244

You do not need to login to view presentations, though registering will allow you to track the presentations you access. Audio/slides can be viewed by selecting either "Invited Speakers" or "Minisymposia" and then connecting to a specific session. You can also browse all presentations on SIAM Presents by conference or area of classification on the left sidebar.

New SIAM Books

A Primer on Mathematical Models in Biology

Lee A. Segel and Leah Edelstein-Keshet

This textbook grew out of a course that the popular and highly respected applied mathematician Lee Segel taught at the Weizmann Institute and represents his unique perspective. It introduces differential equations, biological applications, and simulations, and emphasizes molecular events (biochemistry and enzyme kinetics), excitable systems (neural signals), and small protein and genetic circuits. Additional information: http://www.ec-securehost.com/SIAM/OT129.html

2013 / xxvi + 424 pages / Softcover / ISBN: 978-1-611972-49-8
List Price $69.00 / SIAM Member Price $48.30 / **Order Code OT129**

Recipes for Continuation

Harry Dankowicz and Frank Schilder

This book provides a comprehensive introduction to the mathematical methodology of parameter continuation, and the computational analysis of families of solutions to nonlinear mathematical equations. It develops a systematic formalism for constructing abstract representations of continuation problems and for implementing these in an existing computational platform.
Additional information: http://www.ec-securehost.com/SIAM/CS11.html

2013 / xvi + 584 / Softcover / 978-1-611972-56-6
List Price $99.00 / Member Price $69.30 / **Order Code CS11**

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