

[SIAM Unwrapped - 2013 Annual Meeting Preview](#)

News & announcements for the SIAM membership community



Dear SIAM members,

As you make your plans for the [2013 SIAM Annual Meeting](#) and the jointly-held [SIAM Conference on Control and Its Applications](#), get a preview of the various sessions to expect, including professional development activities and events, prize lectures, and more.

We look forward to seeing you in San Diego! Be sure to stop for coffee at the SIAM booth in the Exhibit Hall during exhibit hours.

Regards,
Karthika Muthukumaraswamy
Editor

A promotional banner for Premier MATHEMATICS Books. It features a blue background with white and red text. The text reads: "Premier MATHEMATICS Books SAVE 20%". Below this, it says "Visit Booth 10 at the SIAM Annual Meeting for more special offers." and "www.CRCPRESS.com". The CRC Press logo is also present, along with the text "Promo Code FZM02 CRC Press Taylor & Francis Group". On the right side of the banner, there are three book covers: "Real Analysis and Foundations THIRD EDITION", "Do I Count? Stories from Mathematics", and "Secret History The Story of Cryptology".

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::: AN13 & CT13 UPDATES :::

Stanley Osher delivers The John von Neumann Lecture

Stanley Osher of University of California, Los Angeles, is awarded the 2013 John von Neumann Lecture in recognition of his extraordinarily influential and wide-ranging contributions to the computational sciences and engineering. Established in 1959 in honor of the Hungarian-American mathematician of the same name, SIAM's flagship lecture, rewards outstanding contributions to the field of applied mathematical sciences and their effective communication to the community. Dr. Osher will deliver the associated prize lecture titled "What Sparsity and l1 Optimization Can Do For You" on Tuesday, July 9 at the SIAM Annual Meeting.

Read details in the complete press release at the link below:

<http://connect.siam.org/stanley-osher-delivers-the-john-von-neumann-lecture/>

I.E. Block Lecture to be given by MIT's Anette Hosoi

Professor Anette Hosoi of the Massachusetts Institute of Technology will deliver SIAM's prestigious [I.E. Block Community Lecture](#), given each year to encourage public appreciation of the excitement and vitality of applied mathematics. Dr. Hosoi's lecture, "From Razor Clams to Robots: The Mathematics Behind Biologically Inspired Design" will explore the broad role of mathematics in the design, control, and assessment of robotic systems. The physical principles exploited by organisms such as snails and clams can provide insights into the development of novel robotic diggers and crawlers. The lecture will take place Wednesday, July 10, from 6:15–7:15 PM in the Town & Country Room. The I.E. Block Lecture is named after, and honors the contributions of the former Managing Director of SIAM.

Read full details in the press release here:

<http://connect.siam.org/biology-and-robotics-work-hand-in-hand-and-claw-to-claw/>

Tyrone Duncan to be awarded W. T. and Idalia Reid Prize

The 2013 W. T. and Idalia Reid Prize goes to Tyrone Duncan, a professor of mathematics at the University of Kansas, for his fundamental contributions to nonlinear filtering, stochastic control, and the relation between probability and geometry. Dr. Duncan will deliver the associated Reid Prize lecture, titled "Solvability for Stochastic Control Problems," at 3:00 p.m. on Wednesday, July 10 in the Town & Country room. The prize, given to celebrate William T. Reid's love of mathematics, may be awarded either for a single notable achievement or a collection of such achievements.

Read complete details in the press release:

<http://connect.siam.org/tyrone-duncan-to-be-awarded-siams-w-t-and-idalia-reid-prize/>

Lexing Ying to receive James H. Wilkinson Prize

Stanford University's Lexing Ying is the recipient of the 2013 James H. Wilkinson Prize in Numerical Analysis and Scientific Computing. Dr. Ying will deliver the associated prize lecture titled, "Interpolative Decomposition and Novel Operator Factorizations" at the Town & Country room at 3:00 p.m. on Thursday, July 11. The prize, established to encourage early career contributors, is awarded for research in, and other contributions to numerical analysis and scientific computing.

Find more information, view the full press release at:

<http://connect.siam.org/lexing-ying-to-receive-siams-james-h-wilkinson-prize/>

Margaret Cheney is the 2013 AWM-SIAM Sonia Kovalevsky Lecturer

The Association for Women in Mathematics (AWM) and SIAM have selected Margaret Cheney of Colorado State University and Naval Postgraduate School as the 2013 AWM-SIAM Sonia Kovalevsky Lecturer. Dr. Cheney is being bestowed this honor in recognition of her broad line of research that is coupling disparate radar solutions in ways previously unrecognized. She will deliver the prize lecture, titled, "Introduction to Radar Imaging" at 2:45 p.m. on Monday, July 8 in the Town & Country room.

For full details, read the complete press release:

<http://connect.siam.org/margaret-cheney-to-deliver-the-awm-siam-sonia-kovalevsky-lecture/>

All above prize recipients will receive their awards at the Prizes and Awards Luncheon to be held on Tuesday, July 9, in the Golden Ballroom.

Class of 2013 Fellows to be recognized

The 2013 Class of SIAM Fellows will be honored at the Prizes and Awards Luncheon on Tuesday, July 9, in the Golden Ballroom. The newly selected [Class of Fellows](#), which includes members from academia, government and industry, are being recognized for exemplary research as well as outstanding service to the community. Through their contributions, these 33 distinguished members of our community are helping advance the fields of applied mathematics and computational science.

We also want to take this opportunity to remind you that nominations are now being accepted for the 2014 Class of SIAM Fellows. The SIAM Fellows Program honors SIAM members in order to help their advancement to leadership positions as well as make them more competitive for awards and honors when compared with colleagues in different disciplines. Nominate now!

<http://nominatefellows.siam.org/Pages/Home.aspx>

Student and professional development activities at AN13

Student events kick off with a student orientation just preceding the welcome reception on Sunday, July 7. The [career fair](#) to be held 7:15-9:15 p.m. on Monday, July 8 promises to be an exciting and informational event where job seekers can speak with prospective employers, and meet government and industry representatives in the field. For those interested in exploring career options in the industrial sector, an [industry panel](#) just preceding the career fair will discuss various aspects of using

applied math to solve industrial problems. Students can also meet with invited speakers at an evening session on Tuesday to get ideas and ask questions related to research and professional development. Don't forget to attend the SIAM book giveaway, which will be held in the Exhibit Hall on Thursday afternoon.

View details on the above and many more activities planned for students at the link below:

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

SIAM Annual Business meeting invites members

The SIAM Annual Business Meeting is held each year at the Annual Meeting, as required by SIAM's bylaws. A range of topics, such as SIAM publications, activity groups, student chapters, and outreach activities will be discussed Tuesday, July 9, at 6:15 p.m. in the Town and Country room. Members are encouraged to attend and share their thoughts and feedback. 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.

::: **OTHER UPDATES** :::

SIAM at Coalition for National Science Funding

On May 7, the Coalition for National Science Funding (CNSF) hosted its annual exhibition where mathematicians, scientists, and engineers displayed research supported by the National Science Foundation for members of Congress and their staff. Jasmine Foo from the University of Minnesota represented SIAM at this year's CNSF Exhibition and Reception. Foo's display focused on modeling the spread of premalignant fields of tissue surrounding tumors to help better understand the impact and extent of cancerization across tissue types; this work will lead to better recommendations on surgical excision margins and prognosis predictions. Foo spoke with various federal agency officials and congressional staff about her work and the importance of federal investments in applied mathematics, including Sastry Pantula, Mathematical Sciences Division Director at NSF and House Science Committee members.

Latest Nuggets take on viruses and terrorism

The latest SIAM Nuggets spotlight the role of mathematics in tackling two very potent, yet distinctly different, threats. Two nugget articles explore the role of theoretical mathematical models in understanding the dynamics of human immunodeficiency virus (HIV), as well as the various phases in persistent viral infections: read about the [Mathematical analysis of viral blips](#) and [Mathematical models to better combat HIV](#).

A third nugget, titled, "[Can math models of gaming strategies be used to detect terrorism networks?](#)," addresses just that: can strategies from games be used to design mathematical models for analyzing and possibly thwarting terrorism networks.

Want to read about other interesting and broadly applicable uses of mathematical modeling published in SIAM journals? You can access all SIAM nuggets here:

<http://connect.siam.org/category/siam-nuggets/>

Conferences accepting registrations and submissions

[**SIAM Conference on Applied Algebraic Geometry \(AG13\)**](#), August 1-4, 2013, Colorado State University, Fort Collins, Colorado

Pre-registration deadline: Monday, July 8, 2013

<https://www.siam.org/meetings/ag13/regform.php>

[**Mathematical Congress of the Americas 2013**](#), August 5-9, 2013, Guanajuato, Mexico

Pre-registration deadline: Monday, July 15, 2013

<http://www.mca2013.org/en/registration.html>

[**Analytic Algorithmics and Combinatorics \(ANALCO14\)**](#), January 6, 2014, Portland, Oregon, USA

Deadline for submissions of proceedings paper abstracts: July 31, 2013

<http://www.siam.org/meetings/analco14/submissions.php>

[**SIAM Conference on Parallel Processing for Scientific Computing \(PP14\)**](#), February 18-21, 2014, Portland, Oregon, USA

Deadline for minisymposium proposals: August 1, 2013

Deadline for abstracts for contributed and minisymposium speakers: August 22, 2013

Applied mathematics and computational science opportunities

The [**NeXXt Scholars Program**](#) aims to engage and advance American women as well as women from countries with predominantly Muslim populations to pursue undergraduate degrees in Science, Technology, Engineering, and Math (STEM) academic fields. A partnership of The New York Academy of Sciences, the U.S. Department of State and a consortium of over 30 U.S. women's colleges in its second year, the program invites female STEM professionals, graduate-level students, and postdocs who have a desire to help the next generation of women break into STEM-related fields to apply. The deadline for mentor applications is Monday, July 15th. More information about the NeXXt Fellow Program including requirements and application information can be found [here](#).

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SIAM Unwrapped is a free electronic newsletter distributed monthly to SIAM members. It provides links to industry news, membership information, meetings, publications, and other items of interest.

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