

## **SIAM Unwrapped – November 2014**

*News & announcements for the SIAM membership community*



Dear SIAM members,

Thank you for your nominations for the 2015 Class of SIAM Fellows. Nominations are now closed. Look for an announcement of the 2015 Class at the end of March.

In this issue, read details on what to expect at the [SIAM Conference on Computational Science and Engineering \(CSE15\)](#) to be held in Salt Lake City in March. One of SIAM's biggest conferences, the meeting promises to be exciting with a stellar lineup of invited speakers and many great events and activities.

Regards,

Karthika Muthukumaraswamy

Editor

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 ::: **SIAM HQ UPDATE** :::  
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**Meet SIAM’s new Board and Council**

Following SIAM’s fall elections, we are pleased to announce our new Board and Council members:

*Board of Trustees*

- Russel Caflisch - University of California - Los Angeles
- Mary Ann Horn\* - Vanderbilt University and DMS, National Science Foundation
- Tamara Kolda\* - Sandia National Laboratories

*Council Members*

- Raymond Chan - The Chinese University of Hong Kong
- Geoffrey McFadden - National Institute of Standards and Technology
- Padma Raghavan - Pennsylvania State University
- Rachel Kuske\* - University of British Columbia

\* indicates incumbent

SIAM wishes to thank the outstanding slate of candidates for their willingness to serve the SIAM community, as well as all voting members for their participation.

**Renew your membership for 2015**

It’s that time of year again—when we thank you for being a member of SIAM and remind you to [renew your membership](#) to continue to enjoy your benefits. There’s more reason than ever to be a member. View our [2015 renewal brochure](#) to view the exciting things on tap for next year. If you are a nonstudent member, you can also nominate up to two students per year for a free student membership. Don’t

forget to [communicate with us](#) via email or our various social media channels with ideas, suggestions or concerns.

### **Don't miss our Member-Get-a-Member contest!**

There's still time to refer friends and colleagues to join SIAM, and be entered into our [Member-Get-a-Member](#) contest drawing to win an iPad and other prizes. Anyone who joins SIAM for 2015 now (using the 15-month membership application), will also get the rest of 2014 for free, and referring members will receive €SIAM t-shirts for their efforts.

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::: **CSE15 UPDATES** :::  
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### **Program Highlights from CSE15**

The [2015 SIAM Conference on Computational Science and Engineering \(CSE15\)](#) will take place during Saturday, March 14, 2015 through Wednesday, March 18, 2015 in Salt Lake City, Utah. Highlights of the program include:

- An exciting mix of [invited plenary presentations](#) by international CSE leaders
- [Featured minisymposia](#): 6 solicited sessions with a broadly accessible introduction to each topic and presentations on fundamental CSE advances
- [NSF-SIAM Symposium on Materials](#): Three sessions on the mathematical and computational aspects of materials science
- [Minitutorials](#) on *Python Visual Analytics for Big Data* and *Lab Skills for Scientific Computing*
- Expanded poster sessions, including demos and *minisymposia* (thematic poster groups), as well as new poster prizes
- [Career Fair](#), featuring nonacademic employers from industry and government
- Broad range of minisymposia and contributed presentations

### **CSE15 poster submission deadline extended!**

CSE15 poster submissions have [re-opened](#). Want to present your research at CSE15 but missed the submission deadline? Additional single poster submissions are being accepted through December 15, 2014. *This is the final deadline for poster submissions, so don't miss it!*

### **Attend the career fair at CSE15!**

On Saturday, March 14, a Career Fair featuring representatives from nonacademic employers will take place at the conference. Job-seekers can get more information on full-time jobs, postdoctoral positions, and internships available at the companies represented. The full day of sessions will include a career panel with lunch provided, and a Professional Development Evening session. If interested, please submit a one-page resume to be made available to the representatives of employers. For more information, job

seekers and employers may visit <http://www.siam.org/meetings/cse15/career.php> or email Kristin O'Neill at [marketing@siam.org](mailto:marketing@siam.org).

### **Child Care Grants for CSE15**

SIAM is offering up to \$250 per family for attendees who bring children to the CSE15 conference. The deadline for applications is January 16, 2015. For more information including a link to the application form, please visit: <http://www.siam.org/meetings/cse15/childcare.php>

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**::: PUBLISHING NEWS & NOTES :::**  
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### ***SIURO* has a new Editor-in-Chief**

Luis Melara of Shippensburg University of Pennsylvania has been selected as the new Editor-in-Chief of [SIAM Undergraduate Research Online](#) (*SIURO*), SIAM's free and open electronic publication devoted to undergraduate research in applied and computational mathematics. Dr. Melara, an associate professor in the mathematics department at Shippensburg, completed his undergraduate degree at University of California, Los Angeles, and received his Ph.D. from Rice University.

"Luis brings a lot of ideas and enthusiasm to the publication already as an Associate Editor and I expect him to continue the positive trend for *SIURO* of increasing visibility and submissions," says outgoing *SIURO* EIC, Rachel Levy of Harvey Mudd College.

### **Supplementary Materials at SIAM Journals Online**

SIAM is seeing an increase in publication of manuscripts with supplementary materials that complement submitted papers. Unlike the article itself, these materials are unrefereed, and include additional figures or examples, animations, data sets used in the paper, computer code used to generate figures or tables, or other materials that are necessary to fully document the research contained in the paper or to facilitate the readers' ability to understand and extend the work.

The policy to include supplementary content was finalized early in 2013 (link to <http://www.siam.org/journals/supplementary.php> for details). JUQ began to encourage supplementary content earlier this year, joining SIAP, SIMA, SIMAX, SINUM, SIREV, and SISC. To date 37 papers have been accepted with supplementary files; more than a dozen are published in SISC with the SIMAX community in particular also frequently pursuing this option. Posting supplementary content is by discretion of each journal's editorial board. SIADS and SIIMS continue to consider supplementary materials on a refereed basis, as has long been the case.

## New SIAM Books

### ***Introduction to Nonlinear Optimization: Theory, Algorithms, and Applications with MATLAB***

*Amir Beck*

This book provides the foundations of the theory of nonlinear optimization as well as some related algorithms and presents a variety of applications from diverse areas of applied sciences. The author combines three pillars of optimization—theoretical and algorithmic foundation, familiarity with various applications, and the ability to apply the theory and algorithms on actual problems—and rigorously and gradually builds the connection between theory, algorithms, applications, and implementation.

Additional information: <http://bookstore.siam.org/mo19>

2014 / xii + 282 pages / Softcover / ISBN: 978-1-611973-64-8 / List Price \$89.00 / MOS/SIAM Member Price \$62.30 / **Order Code MO19**

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::: **UPDATES ON CONFERENCES & PRIZES** :::  
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### **SIAM sessions at 2015 Joint Mathematics Meetings**

If you are attending the 2015 Joint Mathematics Meetings, January 10-13, 2015 in San Antonio, Texas, you may be interested in the SIAM minisymposia sessions that are part of the program. There is also a SIAM Invited Address to be delivered by A. Tropp, California Institute of Technology, on Sunday January 11, 2015. For more information, see <http://www.siam.org/meetings/jmm15/index.htm>

### **Go mobile at FM14**

A mobile app for the 2014 Conference on Financial Mathematics and Engineering, taking place November 13 -15, is available for download. Plug [www.tripbuilder.com/siam2014events](http://www.tripbuilder.com/siam2014events) into your mobile browser. The link will automatically detect the type of device and take you to the right place to download the app. Or, view the mobile site in HTML5 by connecting to [www.tripbuilder.net/mw/apps/siam2014events](http://www.tripbuilder.net/mw/apps/siam2014events). You can then select FM14 from the list of 2014 SIAM events on the app or mobile site to view the schedule, browse speakers, attendees, and exhibitors, take a look at maps and building layouts, sync events with your mobile calendar, create your own show by selecting specific sessions, and more!

### **Apply for Gene Golub SIAM Summer School 2015**

The 2015 Gene Golub SIAM Summer School on *RandLA*: Randomization in Numerical Linear Algebra to take place June 15-26, 2015, in Delphi, Greece is now accepting applications. More information can be found at [http://www.cs.rpi.edu/~drinep/G2S3\\_RandNLA\\_2015/](http://www.cs.rpi.edu/~drinep/G2S3_RandNLA_2015/). The application deadline is February 1, 2015. View the [archives](#) for previous schools to learn more.

## Call for Proposals: Gene Golub SIAM Summer School 2016

SIAM is calling for letters of intent proposing topics and organizers for the 2016 Gene Golub SIAM Summer School (G2S3). Preference will be given to a computational linear algebra theme in 2016, but letters of intent in all areas of applied and computational mathematics will be considered. It is expected that the program will run two weeks and accept 40-50 graduate students. SIAM will contribute up to \$95,000 towards the running of the summer school.

Information about the G2S3 program, including the composition of the G2S3 committee can be found at [www.siam.org/about/com\\_golub.php](http://www.siam.org/about/com_golub.php). The deadline for letters of intent is January 31, 2015. Full proposals are due March 31, 2015. For more details, and a template for the letter of intent, visit: [www.siam.org/students/g2s3/summer\\_call.php](http://www.siam.org/students/g2s3/summer_call.php)

### SIAM conference registrations & submissions

[Analytic Algorithmics and Combinatorics \(ANALCO15\)](#), January 4, 2015

[ACM-SIAM Symposium on Discrete Algorithms \(SODA15\)](#), January 4-6, 2015

[Algorithm Engineering and Experiments \(ALENEX15\)](#), January 5, 2015

Held jointly in San Diego, California, USA

Pre-registration deadline: Monday, December 1, 2014

<https://www.siam.org/meetings/alnex15/regform.php>

[SIAM Conference on Computational Science and Engineering \(CSE15\)](#), March 14-18, 2015, Salt Lake City, Utah, USA

Minisymposium proposals submissions deadline: July 31, 2014

Additional posters being accepted: Abstracts for contributed posters submissions deadline: December 15, 2014

<http://www.siam.org/meetings/cse15/submissions.php>

[SIAM Workshop on Network Science \(NS15\)](#), May 16-17, 2015, Snowbird, Utah, USA

Note that NS15 is meeting one day before the Conference on Applications of Dynamical Systems (DS15) in the same location as DS15. Separate submission and registration is required.

Submission Deadline: January 10, 2015

<http://www.siam.org/meetings/ns15/>

[SIAM Conference on Applications of Dynamical Systems \(DS15\)](#), May 17-21, 2015, Snowbird, Utah, USA

Abstracts for minisymposia, contributed lectures and poster submissions are due: November 17, 2014

<http://www.siam.org/meetings/ds15/submissions.php>

[The 13th International Symposium on Orthogonal Polynomials, Special Functions and Applications \(OPSFA13\)](#), June 1-5, 2015, Gaithersburg, Maryland, USA

Minisymposium proposals submission deadline: November 3, 2014 (Karthika, check if this deadline is extended before you delete this one)

Abstracts for contributed and minisymposium speakers submissions are due: February 2, 2015

<http://www.siam.org/meetings/opsfa13/submissions.php>

**[SIAM Conference on Mathematical and Computational Issues in the Geosciences \(GS15\)](#)**, June 29-July 2, 2015, Stanford, California, USA

Minisymposium proposals submissions deadline: December 11, 2014

Abstracts for minisymposia, contributed lectures and poster submissions deadline: January 15, 2015

<http://www.siam.org/meetings/g15/submissions.php>

**[SIAM Conference on Control and Its Applications \(CT15\)](#)**, July 8-10, 2015, Paris, France

Minisymposium proposals submission deadline: January 12, 2015

Abstracts for contributed and minisymposium speaker submission deadline: January 21, 2015

<http://www.siam.org/meetings/ct15/submissions.php>

Full Paper for consideration in Proceedings: January 21, 2015

<http://www.siam.org/meetings/ct15/proceedings.php>

#### **Prize nomination deadlines**

The following prizes have a nomination deadline of November 15, 2014:

[Germund Dahlquist Prize](#)

[SIAG/GS Career Prize](#)

[George B. Dantzig Prize](#)

[SIAG/GS Junior Scientist Prize](#)

[SIAG/CST Prize](#)

[Jürgen Moser Lecture](#)

[J. D. Crawford Prize](#)

For the complete list of the call for nominations, please visit:

<http://www.siam.org/prizes/nominations.php>

#### **AMCS conferences and events**

##### **[5<sup>th</sup> Edition Model Risk Conference](#)**

January 26-28, 2015, San Francisco, California

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If your email does not support the hyperlink features, please copy any of the above URLs and paste them into your Internet browser. Questions/comments/suggestions? Send them to [karthika@siam.org](mailto:karthika@siam.org).

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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