

## **SIAM Unwrapped - September 2013**

*News & announcements for the SIAM membership community*



Dear SIAM members,

Want a way to make your voices heard in the next few months? How about voting in the SIAM Elections, or nominating SIAM Fellows or candidates for some of SIAM's major prizes? Read details in this issue!

Renewal season is here as well. You should have received an e-mail with instructions from [renewals@siam.org](mailto:renewals@siam.org) in the first week of September.

Regards,

Karthika Muthukumaraswamy

Editor

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*This issue of SIAM Unwrapped brought to you with the support of:*



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**::: SIAM HQ UPDATE :::**  
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**Make your vote count!**

This year, SIAM members will choose the President-elect, VP-at-Large and Secretary. In addition, three members to serve on the SIAM Board of Trustees and four members to serve on the SIAM Council will be chosen. The persons elected will govern SIAM's activities and make important decisions for the organization on your behalf. It is worth taking a few minutes to read the candidate statements, and vote for the people you would like to represent you. Candidate profiles can be viewed at:

[http://www.siam.org/election/election\\_info.php](http://www.siam.org/election/election_info.php)

As always, there will be space for write-in votes. On September 1, an e-mail message was sent to you from the "SIAM Election Coordinator" ([support@votenet.com](mailto:support@votenet.com)) with your unique voting credentials and a link to the address of the voting site. To ensure the message gets delivered to your inbox, you may wish to "white list" your spam filter to accept the above e-mail address ([support@votenet.com](mailto:support@votenet.com)).

Questions regarding the election process can be directed to SIAM Executive Director James Crowley, c/o the SIAM Election Manager at [election@siam.org](mailto:election@siam.org).

**Nominate to the 2014 Class of SIAM Fellows**

Nominations to the 2014 Class of SIAM Fellows are being accepted through November 4, 2013. You can raise visibility of the applied math community by helping SIAM identify members who have demonstrated excellence in research, industrial work, educational activities and other service related to the goals of SIAM. Fellows will be announced in March and will be recognized at the 2014 SIAM Annual Meeting to be held in July.

Members can nominate up to two individuals for distinguished work in the applied mathematical and computational sciences. Make a nomination at <http://nominatefellows.siam.org>.

To find more information on the SIAM Fellows Program, including nomination guidelines, go to:

<http://www.siam.org/prizes/fellows/index.php>

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**::: PUBLIC AWARENESS :::**  
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**Math analyzes aircraft stability and desert vegetation**

Can planes be made more stable during ground movements? How do plants survive in dry and semi-arid conditions? Math—and SIAM Nuggets—have answers.

Commercial aircraft can occasionally display unwanted oscillations during ground maneuvers, and this remains an ongoing challenge in the design of aircraft landing gear. A SIAM Nugget, based on research published in the *SIAM Journal on Applied Dynamical Systems*, analyzes the [dynamics of aircraft landing gear](#) using nonlinear models, which help determine the types of oscillations that can occur under different conditions.

A second Nugget is based on a *SIAM Journal on Applied Mathematics* paper, which studies why and how vegetation in regions with low rainfall [self-organizes into patterns or “bands.”](#) The author determines the critical rainfall level needed for the formation of such patterns based on a variety of ecological parameters. Mathematical models are valuable tools to study vegetation under various conditions since field experiments tend to be expensive and laboratory systems don’t exist.

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**::: PUBLISHING NEWS AND NOTES :::**  
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**Mathematics in Industry book series – Call for Manuscripts**

SIAM is seeking manuscripts for its Mathematics in Industry book series, which is led by *Editor-in-Chief* Thomas A. Grandine. The Mathematics in Industry book series aims to ensure that important mathematical methods and techniques that are widely applicable in industrial settings are available as books. The research monographs, textbooks, tutorials, and handbooks published in this series will contain high-quality research, case studies, and algorithms relevant to real-world problems in industry. Information for potential authors can be found at <http://www.siam.org/books/series/mi.php>.

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**::: UPDATES ON CONFERENCES & PRIZES :::**  
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**AN13 and CT13 presentations now available to view**

Presentations of select sessions from the SIAM Annual Meeting and Conference on Control and its Applications are now available on [SIAM Presents...Featured Lectures from Our Archives](#). View and listen to invited and prize lectures, and select minisymposia on various topics in applied and computational mathematics.

Please go to the direct link below to view the sessions captured at AN13:  
<http://goo.gl/emBZ7y>

and CT13:  
<http://goo.gl/L1e48e>

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,” “Prize Speakers,” or “Minisymposia” from the left sidebar 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.

You may also find of interest brief video clips on various topics in applied mathematics, recorded on site at SIAM conferences with various speakers and panels. Speakers and topics were chosen for their wider interest and their illustration of the value and usefulness of applied and computational math to the broader audience. Got 5 or 10 minutes? Browse under the [video section](#)!

### **Travel Grants for ICM 2014**

U.S. mathematicians (currently affiliated with a U.S. institution) may be eligible for travel grants to attend the [2014 International Congress of Mathematicians](#) (ICM 2014), which will be held August 13-21, 2014, in Seoul, Korea. Travel awards will be subject to approval of funds; the American Mathematical Society has applied to the National Science Foundation (NSF) for funding and is awaiting approval. Early career mathematicians (those within six years of their doctorate), women, and members of U.S. groups underrepresented in mathematics are especially encouraged to apply.

View more details at <http://connect.siam.org/travel-grants-for-icm-2014/>.

Applications are being accepted through November 15, 2013. Instructions on how to apply for support is available on the AMS website at:

<http://www.ams.org/programs/travel-grants/icm>

### **Conferences accepting registrations and submissions**

Many of the conferences listed below are accepting applications for student travel awards. Please apply for these grants by going to the individual conference pages linked below, and click on "Travel Support" on the right sidebar.

[Algorithm Engineering and Experiments \(ALENEX14\)](#), January 5, 2014, Portland, Oregon, USA

Deadline for extended abstracts: September 30, 2013

<http://www.siam.org/meetings/alnex14/submissions.php>

[SIAM Conference on Uncertainty Quantification \(UQ14\)](#), March 31-April 3, 2014, Savannah, Georgia, USA

Deadline for abstracts for contributed presentations and posters: September 30, 2013

<http://www.siam.org/meetings/uq14/submissions.php>

Travel award application due date: September 16, 2013

[SIAM International Conference on Data Mining \(SDM14\)](#), April 24-26, 2014, Philadelphia, Pennsylvania, USA

Deadline for workshop/tutorial proposals: September 27, 2013

Deadline for abstract submissions: October 6, 2013

Deadline for paper submissions: October 13, 2013

<http://www.siam.org/meetings/sdm14/submissions.php>

Travel award application Deadline: January 22, 2014

**[SIAM Conference on Imaging Science \(IS14\)](#)**, May 12-14, 2014, Hong Kong

Deadline for submission of minisymposia and minitutorial proposals: September 30, 2013

Deadline for submission of abstracts for minisymposia and contributed speakers: October 30, 2013

<http://www.math.hkbu.edu.hk/SIAM-IS14/>

SIAM travel award application due date: October 30, 2013

Conference organizers travel award due date: October 30, 2013

Apply at: <http://www.math.hkbu.edu.hk/SIAM-IS14/ConfTravelAwards.html>

**[SIAM Conference on Optimization \(OP14\)](#)**, May 19-22, 2014, San Diego, California, USA

Deadline for submission of minisymposia proposals: October 21, 2013

Deadline for submission of abstracts for minisymposia and contributed speakers: November 18, 2013

<http://www.siam.org/meetings/op14/submissions.php>

Travel award application due date: November 4, 2013

**[SIAM Conference on Discrete Mathematics \(DM14\)](#)**, June 16-19, 2014, Minneapolis, Minnesota, USA

Deadline for submission of minisymposia proposals: January 8, 2014

Deadline for submission of abstracts for minisymposia and contributed speakers: February 11, 2014

Travel award application Deadline: February 7, 2014

**[SIAM Conference on Geometric and Physical Modeling \(GD/SPM13\)](#)**, November 11-14, 2013, Denver, Colorado, USA

Pre-registration deadline: Monday, October 14, 2013

<https://www.siam.org/meetings/gdspm13/regform.php>

### **[Open calls for prize nominations and submissions](#)**

For the following prizes, the nomination deadline is September 15, 2013:

SIAG/Supercomputing Career Prize

SIAG/Supercomputing Junior Scientist Prize

SIAG/Imaging Science Prize

SIAG/OPT Prize

Dénes König Prize

Martin Kruskal Lecture

For the following prizes, nominations are due October 15, 2013:

Julian Cole Lecture

Theodore von Kármán Prize

Richard C. DiPrima Prize

George Pólya Prize

W.T. and Idalia Reid Prize

2014 John von Neumann Lecture

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

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