



SIAM Unwrapped

News & announcements for the SIAM membership community

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September 2012

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Dear SIAM Members,

Have you renewed your membership for 2013? Details on renewals and ways to nominate and refer members are below. SIAM is also seeking nominations for SIAM Prizes and Fellows. You can help recognize and reward the most deserving members of the applied math and computational science community!

Also in this issue, you will learn about SIAM's enhanced online news page, a milestone in SIAM's effort to tackle plagiarism, and funds available for student chapters. Read on!

Regards,

Karthika Muthukumaraswamy

Editor

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::: PUBLIC AWARENESS :::

Re-introducing SIAM Connect

Is SIAM Connect among your regular sources of online information? You, as a SIAM member, will likely have interest in its relevant content.

SIAM Connect is SIAM's online news page. *Nuggets* present overviews of exciting new research from SIAM journals in a citizen math perspective, with focus on applications to significant real-world questions. *SIAM Presents* brings audio-visual content from SIAM conferences including complete slide presentations (with synchronized audio) of minisymposia and lectures, and overview video clips featuring some of the interesting speakers from past meetings. SIAM News announcements give details on relevant conferences, workshops and awards; the *Policy and Funding* section updates you about applied mathematics education and research; conference roundups recap SIAM meetings; and *Student News* apprises students of new and exciting opportunities. You can also view current and archival issues of *Unwrapped*.

Have you checked it out yet? Head on over now:

<http://connect.siam.org/>

(You can also get to it from the left navigation bar on the SIAM home page.)

::: SIAM HQ UPDATE :::

SIAM Elections are open!

Members are now welcome to elect representatives to serve on the SIAM Board of Trustees and SIAM Council. The individuals 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 most to represent you. Candidate information is available at:

http://www.siam.org/election/election_info.php

On September 1, all dues-paying members should have received an e-mail message from the "SIAM Election Coordinator" (SIAM@votenet.com) with unique voting credentials and a link to 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 (SIAM@votenet.com).

Nominate a SIAM member to the 2013 Class of Fellows

Nominations to the 2013 Class of SIAM Fellows are being accepted through November 5, 2012. You can help 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 2013 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>

Many ways to a SIAM membership

There are many ways to be (or continue to be) a SIAM member. Simply look for your renewal notice e-mail in mid-September. The email will allow you to link directly to your SIAM membership account and either pay your dues online or print out a renewal invoice to mail or fax your payment. Please be sure to whitelist "renewals@siam.org" to ensure you receive all correspondence. You can reach the same renewal information by logging in at *my.siam.org*, and clicking on "My Renewal". Free student members, don't forget that you will need to renew your membership to continue receiving all member benefits in 2013. Nonstudent members can nominate up to two students per year for free student membership.

Members can also refer their colleagues through the SIAM Member-Get-a-Member program. If the referred individual joins SIAM as a nonstudent member, both the referring and new members are entered into a contest to win a free SIAM membership, SIAM book, or SIAM conference registration of

their choice. In addition, the first 100 members to refer someone who joins SIAM will receive a SIAM t-shirt. For questions about renewing, or if you want to change your membership type or term, contact membership@siam.org.

Congratulations to SIAM's 2012 prize recipients

SIAM's prestigious prize program recognizes significant contributions in the fields of applied mathematical and computational sciences each year. The aim of the program is to raise visibility of applied mathematics in the broader community, in addition to encouraging and honoring quality research—and those who deliver it. At this year's SIAM Annual Meeting held in Minneapolis in July, the 2012 prize recipients received their awards from SIAM President Nick Trefethen at the Prizes and Awards Luncheon.

Detailed press releases for each award, including winner bios and prize information, can be viewed here:

<http://connect.siam.org/?cat=8>

Know a colleague or friend who is deserving of a SIAM Prize? Please visit our nominations page to view prizes currently open for nominations:

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

::: CYBER-SIAM UPDATES :::

Say hello to the SIAM Student Blog

With student chapters representing 100 universities in over a dozen countries worldwide, SIAM has an active and vibrant student community. In keeping with the goals of SIAM, SIAM chapters are involved in various activities to raise visibility for applied mathematics and computational science. From outreach events at local schools, professional development activities and career fairs, special lectures, workshops and conferences, to Pi Day events and math movie nights, SIAM chapters have come up with creative ways to celebrate and promote math through the years. Now they have one more outlet for their creative endeavors. SIAM has a brand new Student Blog where students can share and seek ideas on fundraising and public outreach, in addition to discussing general views and perspectives on math education and research.

The debut post presents guidelines for running student conferences, meticulously put together by representatives from five SIAM chapters. You can read the blog here:

<http://connect.siam.org/?cat=173>

If you are interested in contributing to the blog, or have an idea for an article, please e-mail pao@siam.org.

AN12 and FM12 on SIAM Presents

Presentations of selected sessions from the [SIAM Annual Meeting](#) and the [Conference on Financial Mathematics and Engineering](#), held jointly in July, are now available on [SIAM Presents](#). View and listen to interesting talks in a wide range of areas—from modeling of ocean dynamics, image processing, the math behind movie special effects, analysis of systemic risk, and stochastic control in finance to issues in mathematical publishing today.

In addition to the invited and prize lectures and select minisymposia, the tutorial on “Mathematical Modeling of Interest Rates: Challenges and New Directions” is also [available](#).

Please go to one of the direct links below to view the slides and presentations:

AN12:

https://live.blueskybroadcast.com/bsb/client/CL_DEFAULT.asp?Client=975312&PCAT=4072&CAT=4706

FM12:

https://live.blueskybroadcast.com/bsb/client/CL_DEFAULT.asp?Client=975312&PCAT=4072&CAT=4713

::: STUDENT NEWS & NOTES :::

Funding available for student chapters

SIAM is accepting requests for funds from SIAM Student Chapters worldwide for up to \$500 per chapter. [Approved chapters](#) may apply for funding for projects to take place on their campuses during the 2012-2013 academic year. Please include a description of the proposed project with the projected budget, breakdown of activities, and any other sources of funding available. "Request for Funding" forms may be downloaded at the link below:

<http://www.siam.org/students/chapters/forms.php>

Completed forms are due to Membership Coordinator Nancy Snell (snell@siam.org) by September 30, 2012.

You can get ideas for student chapter events by reading about the [various activities](#)—including conferences, lectures, and professional development panels—organized by SIAM chapters last year. You can also access a [white paper](#) on hosting and organizing a SIAM student conference recently put together by five SIAM chapters on the new SIAM Student Blog:

<http://connect.siam.org/?cat=173>

::: PUBLISHING NEWS AND NOTES :::

Combating plagiarism

In March 2010, SIAM—taking action on a noticeable increase in author misconduct at a time where web access made copying previously published material all too easy—began to run journal submissions through software provided by CrossCheck, an initiative to combat scholarly and professional plagiarism. Close to two and a half years later, SIAM has reached a milestone, running the ten-thousandth submission against CrossCheck’s database of more than 72,000 books, journals and conference proceedings encompassing 32 million individual items. When a submission is run through the software, a report is created reflecting duplicated content. This is then reviewed by SIAM staff, and if the duplication sounds an alarm, the journal’s Editor-in-Chief is notified. It’s good to take a step back and note that there have been few cases of blatant plagiarism, where 50, 70, or 90 percent of a submission is lifted verbatim from other work. Seen more often are problems involving a degree of self-plagiarism or insufficient citation. The overall percentage of “flagged” submissions runs under 4 percent.

Along with 10,000-plus submissions, SIAM has also re-checked close to 2,500 accepted papers. The new report uncovers concerns stemming from material published elsewhere in the time elapsed between submission and acceptance. This double-check returns few problems—less than 1 percent of papers at acceptance show duplication of content—but publishing even one paper with plagiarized material is too many.

New and improved SIAM Books

Physics and Partial Differential Equations, Volume I

Tatsien Li and Tiehu Qin, Translated by Yachun Li

Now available in English for the first time, *Physics and Partial Differential Equations, Volume I* bridges physics and applied mathematics in a manner that is easily accessible to readers with an undergraduate-level background in these disciplines. Readers who are more familiar with mathematics than physics will discover the connection between various physical and mechanical disciplines and their related mathematical models, which are described by partial differential equations (PDEs). On the other hand, those more familiar with physics than mathematics will benefit from in-depth explanations of how PDEs work as effective mathematical tools to more clearly express and present the basic concepts of physics. The book describes the mathematical structures and features of these PDEs.

Additional information: <http://www.ec-securehost.com/SIAM/OT126.html>

2012 / x + 264 pages / Softcover / ISBN 978-1-611972-26-9

List Price \$79.00 / SIAM Member Price \$55.30 / Order Code **OT126**

From Vector Spaces to Function Spaces: Introduction to Functional Analysis with Applications

Yutaka Yamamoto

This book provides a treatment of analytical methods of applied mathematics. Starting with a review of the basics of vector spaces, it brings the reader to an advanced discussion of applied mathematics, including the latest applications to systems and control theory. The text is designed to be accessible to those not familiar with the material and useful to working scientists, engineers, and mathematics students. The author provides the motivations of definitions and the ideas underlying proofs without sacrificing mathematical rigor.

Additional information: <http://www.ec-securehost.com/SIAM/OT127.html>

2012 / xiv+268 pages / Hardcover / ISBN 978-1-611972-30-6

List Price \$89.00 / SIAM Member Price \$62.30 / **Order Code OT127**

::: UPDATES ON CONFERENCES & PRIZES :::

Travel grants for Mathematical Congress of the Americas

The American Mathematical Society (AMS) has received funds from the National Science Foundation (NSF) to provide partial travel support for up to sixty U.S. mathematicians attending the inaugural meeting of the Mathematical Congress of the Americas (MCA) to be held August 5-9, 2013 in Guanajuato, Mexico. The program is open to U.S. mathematicians (who must be affiliated with a U.S. institution at the time of travel). It is expected that the program will provide travel support for both U.S.-based invited speakers (senior mathematicians) and early career mathematicians. Applications will be accepted from September 15 - October 31, 2012.

More information and the online application can be found at <http://www.ams.org/programs/travel-grants/mca> .

More information on the Congress is available at <http://www.mca2013.org/>.

Conferences accepting registrations and submissions

[Algorithm Engineering and Experiments \(ALENEX13\)](#) January 7, 2013, New Orleans, Louisiana, USA

Submissions are now being accepted for ALENEX13.

Proceedings submission: Authors are invited to submit 10-page extended abstracts by September 25, 2012.

<http://www.siam.org/meetings/alenex13/submissions.php>

[Fourteenth International Conference on Numerical Combustion \(NC13\)](#), April 8-10, 2013, San Antonio, Texas, USA

Submission Deadlines:

Minisymposium proposals: October 8, 2012

Abstracts for contributed and minisymposium speakers: October 8, 2012

<http://www.siam.org/meetings/nc13/submissions.php>

[SIAM International Conference on Data Mining \(SDM13\)](#), May 2-4, 2013, Austin, Texas, USA

Submission Deadlines:

Workshop/Tutorial Proposals: September 30, 2012

Paper Submission: October 12, 2012

<http://www.siam.org/meetings/sdm13/submissions.php>

[SIAM Conference on Applications of Dynamical Systems \(DS13\)](#), May 19-23, 2013, Snowbird, Utah, USA

Minisymposium proposals due: October 22, 2012

Abstract submissions for contributed and minisymposium speakers: November 19, 2012

<http://www.siam.org/meetings/ds13/submissions.php>

Open calls for prize nominations

Gábor Szegö Prize Deadline for nominations is September 15, 2012.

For the following prizes, nominations are due October 15, 2012:

Germund Dahlquist Prize

The John von Neumann Lecture - suggestions welcome

Ralph E. Kleinman Prize

James H. Wilkinson Prize in Numerical Analysis and Scientific Computing

W. T. and Idalia Reid Prize

Jürgen Moser Lecture

J. D. Crawford Prize

SIAG/Geosciences Career Prize

SIAG/Geosciences Junior Scientist Prize

AWM-SIAM Sonia Kovalevsky Lecture Deadline for nominations is November 1, 2012

SIAG/Control and Systems Theory Prize Deadline for nominations is November 15, 2012.

Find the complete list of calls for nominations at:

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

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.

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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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