SIAM Unwrapped

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November 2011

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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.

Dear SIAM Members,

As the end of the year approaches, we would like to remind you to renew your membership for 2012. This will ensure uninterrupted access to all your member benefits, including your subscriptions to *SIAM News* and *SIAM Review*, and discounts available to you on SIAM books, journals, and conferences.

In addition, those who join SIAM for 2012 now will get the rest of 2011 for free.

You can renew your membership at the link below:

https://my.siam.org/cust_serv

Regards,

Karthika Muthukumaraswamy
Editor

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::: SIAM HQ UPDATE :::

New SIAG on Data Mining and Analytics

SIAM's newest activity group, the SIAG on Data Mining and Analytics was approved by Board and Council at ICIAM 2011. The objectives of the group are to advance the mathematics of data mining by highlighting its applications and exploring connections between data mining and other applied sciences. With a focus on design, analysis and implementation of data mining algorithms and systems, the group will involve researchers in the areas of computing machinery, and electrical and electronics engineering. The SIAG will closely integrate its activities with the international SIAM Conference on Data Mining (SDM), in addition to sponsoring minisymposia at other SIAM conferences.

To join the new activity group, go to:

https://my.siam.org/forms/join_siag.htm

You can also add it to your renewal form when renewing your membership for 2012.

Invite someone to join SIAM!

If you invite a friend or colleague to become a member of SIAM now, you will not only be introducing them to a world of SIAM benefits, but they may also become eligible to win prizes. Both you and your referred colleague will be entered into a drawing for our Member-Get-a-Member contest. Winners will receive one additional year of SIAM membership, a SIAM conference registration of their choice, and a SIAM book that they may select from our list of recent titles. Those interested can join online or download and mail an application. In addition, you will receive an ∈ SIAM t-shirt if you're among the first 100 members to refer a colleague who joins SIAM.

For full details, please view the MGAM flyer:

http://www.siam.org/membership/pdf/mgam_flyer.pdf

Fellows nominations now closed

Nominations for the 2012 Class of SIAM Fellows have now closed. We'd like to thank everyone who sent in a nomination. The Fellows program not only helps us recognize and honor deserving members of the community, but also aids in bringing prestige and recognition to our profession and its related disciplines, and your contributions to the process are greatly valued. The Fellows Selection Committee

will soon begin the process of reviewing the submitted nominations. The names of inducted Fellows will be announced on March 31, 2012, and the new Class of Fellows will be recognized at the 2012 SIAM Annual Meeting to be held July 9—13 in Minneapolis, Minnesota.

::: STUDENT NEWS & NOTES :::

Registration open for Moody's Mega Math (M^3) Challenge

Registration is now open for the 2012 M^3 Challenge, organized by SIAM in partnership with The Moody's Foundation. An Internet-based math-modeling competition for high school students, the contest is designed to motivate students toward viable and exciting career choices in the areas of applied math, economics and finance. To that end, past years of the contest have tackled such timely issues as options for energy independence and the impact of declining water resources, thus allowing young students a chance to weigh in on genuine problems faced by the world today. The contest is **free** and currently open to high schools in 29 states in the Eastern United States. Working in teams of three to five, participants must solve an open-ended, math-modeling problem focused on a realistic issue in 14 hours. Scholarships totaling $115,000 toward the pursuit of higher education will be awarded to the top teams in April. Challenge weekend is set for **March 3—4, 2012**. Interested teams can register at the website below:

http://M3Challenge.siam.org

If you have a problem idea for a future Challenge, please visit:

http://m3challenge.siam.org/problem/submitProblems.php

Win a SIAM Student Paper Prize!

We are now accepting submissions to the SIAM Student Paper Prize. The prize recognizes outstanding scholarship by students in the fields of applied mathematics or computing. Papers must have been already submitted for publication, and may be co-authored. The award is based solely on the merit and content of the student's contribution to the submitted paper. Prize recipients will be awarded at the SIAM Annual Meeting to be held July 2012 in Minneapolis, MN, and will have the opportunity to present their winning papers in a special session. If you have a student who has played a pivotal role in the research and results of an outstanding paper already submitted for publication, consider submitting it for our Student Paper Prize!

For further details and instructions on submissions, please visit:

http://www.siam.org/prizes/nominations/nom_student.php

Participate in the Gene Golub SIAM Summer School

The 2012 Gene Golub SIAM Summer School (G2S3) on Simulation and Supercomputing in the Geosciences, will be held July 29—August 10, 2012 in Monterey, California. Now in its third year, the school will offer three mini-courses over the two-week period. The deadline for applications is February 1, 2012. Visit the G2S3 website for more information and for updates on the application process:

http://www.siam.org/students/g2s3/

We are also looking for quality proposals for G2S3 2013. Letters of intent to run the 2013 school are due January 31, 2012.

More information is at:
http://www.siam.org/students/g2s3/summer_call.php

DOE's Science Graduate Fellowship Program

The Department of Energy has announced the Office of Science Graduate Fellowship (SCGF) Program, a three-year award providing partial tuition support, an annual stipend, and a research allowance for full-time graduate study and thesis/dissertation research at U.S. academic institutions. Applicants must be U.S. citizens and first- or second-year graduate students or undergraduate seniors pursuing or planning to pursue advanced degrees in areas relevant to the Office of Science research at the time of application. Relevant areas include physics, materials sciences, chemistry, biology, applied mathematics, computer and computational sciences, environmental sciences, and some areas of engineering. Complete information about the program and a link to the online application can be found on the SCGF website. Applications are due Tuesday, January 3, 2012.

***Math Matters, Apply It!* And tell us about it!**

Math Matters, Apply It! is an applied mathematics awareness campaign designed to highlight the role that math plays in everyday life and the technologies we encounter daily. The one-page PDF flyers explain mathematical concepts behind everything from DNA analysis to image compression. SIAM invites all student members to submit new ideas for the *Math Matters, Apply It!* series. You could win a cash prize for your submission!

Check out examples of current *Math Matters, Apply It!* flyers at the link below and send us one or more submission(s) of your own.

http://www.siam.org/careers/matters.php

The deadline for submissions is December 16, 2011. Complete rules and guidelines are available at:

http://www.siam.org/careers/pdf/mm_contest.pdf

::: UPDATES ON CONFERENCES & PRIZES :::

AWM Workshop at SIAM AN12

A workshop by the Association for Women in Mathematics (AWM) will take place July 9—10 in conjunction with the 2012 SIAM Annual Meeting in Minneapolis, MN. The workshop will consist of a graduate student poster session, presentations by recent Ph.D.s, a mentoring event, and a career minisymposium. Workshop participants will have the opportunity to meet with other women mathematicians in different stages of their careers. AWM urges female graduate students who have made substantial progress toward their thesis topics to submit posters; up to 10 applicants will be selected to present their posters at the graduate student poster session. Women who have completed their Ph.D.s within the past five years may apply to present research talks in two minisymposia, one of which will focus on mathematical biology, and the other is open to applicants from all applied areas. Up to four women will be selected to give a talk in each minisymposium.

The application deadline is Friday, November 18, 2011.

More information and a link to the application can be found at:

http://sites.google.com/site/awmmath/programs/workshops/SIAM-workshop

Video clips from ICIAM 2011

ICIAM 2011 is behind us, but you can get short snappy overviews on some of the hot topics discussed in sessions. Delegates at the Congress, including some invited speakers, minisymposium organizers, and poster presenters spoke with SIAM about their research and its applications. Visit the link below to watch SIAM's 3-5 minute videos on the math modeling of oil spill cleanups, road traffic, metric geometry, disease dynamics, animal behavior and much, much more:

http://connect.siam.org/?tag=iciamvideo

An archive of videos from ICIAM-TV, prepared by WebsEdge in conjunction with the meeting, which was broadcast from Vancouver during the conference is also available:

http://connect.siam.org/?p=839

Conferences accepting registrations and submissions

ACM-SIAM Symposium on Discrete Algorithms (SODA12) (January 17-19, 2012), **Algorithm Engineering and Experiments (ALENEX12)** (January 16, 2012), and **Analytic Algorithmics and Combinatorics (ANALCO12)** (January 16, 2012) to be held at The Westin Miyako in Kyoto, Japan, are still accepting registrations.

The pre-registration deadline is December 20, 2011.

For more information, go to:

http://www.siam.org/meetings/da12/reginfo.php

SIAM Conference on Nonlinear Waves and Coherent Structures (NW12), June 13—16, 2012, Seattle,Washington, USA

Minisymposium proposals are due today, November 14, 2011. The deadline for submission of abstracts for contributed and minisymposium speakers is December 12, 2011.

For more information, visit:

http://www.siam.org/meetings/nw12/submissions.php

SIAM Conference on Discrete Mathematics (DM12), June 18—21, 2012, Halifax, Nova Scotia, Canada

The deadline for submission of minisymposium proposals is January 4, 2012. Abstracts for contributed and minisymposium speakers are due January 18, 2012.

For more information and/or to make a submission, please visit:

http://www.siam.org/meetings/dm12/submissions.php

SIAM Conference on Financial Mathematics and Engineering (FM12), July 9—11, 2012, and the **2012 SIAM Annual Meeting (AN12)**, July 9—13, are being held jointly in Minneapolis, Minnesota, USA.

The deadlines for submissions to both meetings are as follows:

Minisymposium proposals due January 9, 2012
Abstracts for contributed and minisymposium speakers due January 30, 2012

Go to the conference submissions pages for more information:

SIAM Conference on Financial Mathematics and Engineering (FM12):
http://www.siam.org/meetings/fm12/submissions.php

2012 SIAM Annual Meeting (AN12):
http://www.siam.org/meetings/an12/submissions.php

SIAM Conference on the Life Sciences (LS12) , August 7—10, 2012, San Diego, California, USA

Deadlines for submissions:

For minisymposium proposals: January 9, 2012
For abstracts for contributed and minisymposium speakers: February 6, 2012

For more information and to submit, please visit:

http://www.siam.org/meetings/ls12/submissions.php

Open calls for prize nominations

Lagrange Prize in Continuous Optimization due February 1, 2012
Awarded jointly by SIAM and the Mathematical Optimization Society (MOS)

SIAM Student Paper Prize due February 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.