SIAM Unwrapped

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January 2012

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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,

Here's wishing you a happy and prosperous 2012. Hope you had a great holiday season!

If you have not already done so, this is a reminder to renew your membership for the New Year. Please go to the link below to renew:

https://my.siam.org

You may also check/update your member profile at the above link.

Regards,

Karthika Muthukumaraswamy
Editor

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::: SIAM HQ UPDATE :::

Tim Kelley is new Board Chair

At its December meeting, the SIAM Board elected Tim Kelley as the Board Chair for 2012. Kelley replaces long-term Chair Iain Duff who completed his third term on the Board of Trustees.

The SIAG Election results are in!

New officers for the following activity groups have been elected. Their term of service will be from January 1, 2012—December 31, 2013.

SIAG/DS - Dynamical Systems
Chair: Hans Kaper
Vice Chair: Mariana Haragus
Secretary: Lennaert van Veen
Program Director: Charles Doering

SIAG/IS - Imaging Science
Chair: Christine De Mol
Vice Chair: Naoki Saito
Program Director: Fadil Santosa
Secretary: Justin Romberg

SIAG/CST - Control and Systems Theory
Chair: William McEneaney
Vice Chair: George Yin
Program Director: Fariba Fahroo
Secretary: Jorge Cortes

SIAG/DM - Discrete Mathematics
Chair: Karen Collins
Vice Chair: Ryan Martin
Program Director: Jacques Verstraete

Secretary: Debra Boutin

SIAG/AG - Algebraic Geometry
Chair: Seth Sullivant
Vice Chair: Iwan Duursma
Program Director: Anton Leykin
Secretary: Jan Draisma

SIAG/SC - Supercomputing
Chair: David Bader
Vice Chair: Mary Beth Hribar
Secretary: Fatima Abu Salem
Program Director: Ali Pinar

Members get new members

The 2011 Member Get a Member contest is now closed. We are pleased to announce that over 50 new members were referred by our current members. All nominators and new members will be entered into a drawing for 3 prizes: an additional year of SIAM membership, a SIAM conference registration for a meeting of their choice, and a SIAM book of their choice from our entire catalogue. In addition, all nominators of new members will receive an є SIAM t-shirt to be mailed out later this month. Winners will be announced after the drawing, which is scheduled to take place this week. Please note that you can continue to use the MGAM website to refer colleagues and you will be entered into next year's contest:

http://www.siam.org/membership/mgam.php

::: STUDENT NEWS & NOTES :::

Travel award deadlines extended

Due to log-in problems encountered by some applicants on our Travel Awards application site, we are extending deadline dates for student and early-career travel award applications in January by one week.

Below are the new application due dates:

SIAM International Conference on Data Mining (SDM12): January 13
SIAM Conference on Discrete Mathematics (DM12): January 18
SIAM Conference on Financial Mathematics and Engineering (FM12): January 23
2012 SIAM Annual Meeting (AN12): January 23
Workshop Celebrating Diversity (WD12): January 23
SIAM Conference on the Life Sciences (LS12): January 30

For the complete list of deadlines, please visit the following pages:
http://www.siam.org/prizes/sponsored/travel.php
http://www.siam.org/prizes/sponsored/postdoctravel.php

Take advantage of free student memberships

Just a reminder that students from academic member institutions can join SIAM for free: graduate students attending these schools can join online, and undergraduates may be nominated by a faculty member or department head.

Please go to the link below to find out if your school is an academic member:

http://www.siam.org/membership/academic/academic_members.php

A poster with the list of member schools will also be available in the January/February issue of *SIAM News*.

Participate in G2S3 on Computational Geosciences

The Gene Golub SIAM Summer School (G2S3) is now in its third year, and the theme for the 2012 school is Simulation and Supercomputing in the Geosciences. Three mini-courses will be offered over a two-week period from July 29—August 10, 2012 in Monterey, California. Designed to complement regular university curricula, the school will introduce students to advanced simulation and computational techniques used to mitigate the disastrous effects of natural hazards like storms, earthquakes and tsunamis. Data analysis, early warning and planning purposes during such events will be discussed. The deadline for applications is February 1, 2012.

For further information, please visit the G2S3 website:

http://www.mac.tum.de/g2s3/

Submit a proposal for the Gene Golub SIAM Summer School

Letters of intent for proposals for the 2013 Gene Golub SIAM Summer School are still being accepted. The two-week school accommodating 40—50 graduate students is scheduled for the period between June and August 2013 (without conflict with the SIAM Annual Meeting). Letters of intent in all areas are welcome, but preference will be given to a computational linear algebra theme. Courses should pertain to topics not usually covered in regular university curricula, and should be at the research level. Letters of intent with a proposed topic and suggestions for courses and lecturers, in addition to information about organizers, including their previous experience, are due January 31, 2012.

More information is available at:

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

::: PUBLIC AWARENESS :::

Up to $1000 honorarium for a good M^3 problem

Moody's Mega Math (M^3) Challenge, now in its seventh year, is an applied math contest organized by SIAM for high school juniors and seniors. In each contest, student teams download a real-world problem at 7 AM, and have 14 hours to model, solve and write up their solution, using only freely available programs and data, and upload their solution by 9 PM that night. The teams submitting the finest solutions are awarded college scholarships; a total of $115,000 will be distributed in 2012.

The M^3 team is looking for interesting problem topics for future Challenges. We hope that you can help. Past Challenge problems have included: developing strategies for Social Security solvency; predicting job creation effects of the 2009 stimulus package; evaluating the best way to compensate for the census undercount; developing options for the allocation of water resources from a major river system. Problems on politics, economics, environmental issues, social networking, or any other topic that offers the possibility for meaningful mathematical modeling are welcome. Ideally, problems should be of current interest, suitable for modeling by high school students in 14 hours, with sufficient publicly available data to allow for a variety of approaches. An honorarium up to $1000 will be awarded for any problem ideas that are used as practice problems or actual Challenge problems. Please feel free to forward this invite to anyone who you believe would be interested in contributing ideas. Or submit your own! Ideas can be emailed to Michelle Montgomery at Montgomery@siam.org

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::: PUBLISHING NEWS AND NOTES :::

Coming soon! The SIAM/ASA Journal on Uncertainty Quantification

A joint sponsorship between the ASA and SIAM, the SIAM/ASA Journal on Uncertainty Quantification was approved by the SIAM Board in December. Uncertainty quantification pertains to the effects of uncertainty and error on mathematical descriptions of real phenomena, and is significant for validated predictive computations in a variety of scientific and engineering applications. Relying on a broad range of mathematical and statistical groundwork, with associated algorithmic and computational development, the field brings together mathematicians, statisticians, scientists, and engineers. Details on the new journal, including members of the Editorial Board and the peer-review model, are being finalized. More information will follow as SIUNQ moves toward launch.

::: UPDATES ON CONFERENCES & PRIZES :::

Conferences accepting registrations and submissions

SIAM Conference on Parallel Processing for Scientific Computing (PP12), February 15—17, 2012, Savannah, Georgia, USA
The pre-registration deadline is January 18, 2012
For more information, go to:
https://www.siam.org/meetings/pp12/reginfo.php

SIAM Conference on Discrete Mathematics (DM12), June 18—21, 2012, Halifax, Nova Scotia, Canada
The deadline for submission of abstracts for contributed speakers is January 18, 2012.
For more information and to submit, 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 deadline for submission of abstracts for contributed speakers to both meetings is January 30, 2012.
The minisymposium deadline for both meetings has been **extended to January 23, 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
Deadline for submission of abstracts for contributed speakers: February 6, 2012
For more information and to submit, please visit:
 http://www.siam.org/meetings/ls12/submissions.php

SIAM Conference on Mathematics for Industry: Challenges and Frontiers (MI12), October 2—4, 2012, Denver, Colorado, USA
Deadlines for submissions:
Minisymposium proposals: March 5, 2012
Abstracts for contributed and minisymposium speakers: April 2, 2012
Visit the submissions page for more information:
http://www.siam.org/meetings/mi12/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

ERRATUM

Michele Benzi's affiliation in the previous issue was erroneously noted as Georgia Institute of Technology. Dr. Benzi is affiliated with Emory University. We apologize for the error.