

SIAM Unwrapped

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November 2010

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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,

There are many ways in which you can help SIAM grow. You can renew your membership, refer a colleague, nominate a student and more. Go to the SIAM membership page to find more information and to download postures and brochures:

<http://www.siam.org/membership/>

We would like to thank everyone who submitted a nomination for SIAM's 2011 Class of Fellows. Nominations are now closed, and the Fellows Selection Committee will soon begin the process of reviewing them.

The names of inducted Fellows will be announced March 31, 2011, and new Fellows will be recognized at the SIAM, CAIMS, and MITACS joint awards luncheon on July 21 during [ICIAM 2011](#).

Regards,
Karthika Muthukumaraswamy
Editor

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::: SIAM HQ UPDATE :::

Important message for SIAM members

SIAM has received numerous complaints in the past two weeks concerning a WSEAS conference entitled EURO-SIAM 2010. The conference notice was sent via email by Nikos Mastorakis. PLEASE NOTE THAT SIAM HAS NO CONNECTION WITH THIS CONFERENCE, or with any other WSEAS meeting or event. SIAM has never endorsed or officially cooperated with any WSEAS conference or activity. Furthermore, it should be noted that SIAM does not provide e-mail mailing lists to other organizations, has never provided it to WSEAS, and therefore has no connections with this e-mail.

Member Get a Member

SIAM is introducing the 'Member Get a Member' program in order to encourage SIAM members to reach out to friends and colleagues who might benefit from a SIAM membership. If a referred colleague (not including students) joins SIAM, both will be eligible to win prizes! A vital and healthy society grows and thrives with advances in the disciplines it serves. Applied mathematics and computational science is an interdisciplinary area brimming with bright and exciting people. Do you know someone who is yet to discover SIAM? Help them do so, and help yourself in the process! For complete details on how to participate and on criteria to win prizes, please visit:

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

In addition, anyone that joins SIAM for 2011 now gets the rest of 2010 for free. To join, go to www.siam.org/joinsiam.

For more information, please see brochure at:

<http://www.siam.org/membership/pdf/joinsiam11.pdf>.

::: STUDENT NEWS & NOTES :::

Student Days at CSE 2011

SIAM Student Days is the perfect opportunity for students to meet both peers and professionals in their field. [SIAM Student Chapters](#) from all over the world engage in student activities and meet with SIAM leadership at the event. 2011's Student Days will be held in conjunction with the [SIAM Conference on Computational Science and Engineering](#), February 28—March 4, 2011, in Reno, Nevada. Organized by the [SIAM Education Committee](#), the event is designed to encourage student participation in SIAM, to help students learn more about applied mathematics and computational science as both areas of study and as careers, and to provide a forum for emerging mathematicians to learn about their field from experienced professionals.

Waves in Vancouver summer!

The 2011 [Gene Golub SIAM Summer School](#) on "Waves and Imaging," a satellite event of the ICIAM2011 Conference, will take place July 4—15 in Vancouver, Canada. The school will focus on the mathematical basis behind wave-based imaging modalities with mini-courses on radar imaging, computerized tomography, seismic imaging, and imaging in random media. Students pursuing graduate studies in mathematics and related fields all over the world are eligible to apply. Registration is free, and opportunities for travel grants are available. The application deadline is February 2011. Please find more information at <http://g2s3.org>.

SIAM at the USA Science and Engineering Festival

SIAM was one of the proud partners at the [USA Science and Engineering Festival](#), which took place on the National Mall in Washington, D.C. from October 10—24, 2010. SIAM member Peter Turner of Clarkson University organized SIAM's presence at the final weekend's Expo. Faculty and students from Shippensburg University, Penn State, Harvey Mudd College, and University of Maryland (Baltimore County) helped with staffing, allowing mathematics to come alive for participants. Attendees experienced the concept of surface tension with the help of soap and water, and learned to make connections between slopes, derivatives and gradients, among other things. Students were lured into the world of math by explorations of the mathematical theorems behind mechanical toys.

High school students take on real-world issues with math

It's that time of year again: when high school students from Maine through Florida get ready to find solutions to realistic problems with the power of math. Moody's Mega Math (M^3) Challenge is an Internet-based, applied-math modeling contest sponsored by The Moody's Foundation and organized by SIAM, aiming to remind high schoolers that math has uses beyond test scores and exams. With its real-world focus, it introduces applied math to students as a powerful problem-solving tool, and potentially, as a viable and exciting profession. The next Challenge weekend will be held March 5—6, 2011, and registration is open. There are no entrance or participation fees. Scholarship prizes totaling \$100,000 will be awarded. Students participating in past challenges have cracked everything from the effect of the stimulus package on the U.S. economy to the consequences of using ethanol as biofuel.

Please visit: <http://m3challenge.siam.org/>

Have an interesting math problem?

Try a high school student. Over the past five years, participants of Moody's Mega Math (M^3) Challenge have used their critical thinking skills, their creativity and their level of depth and detail in finding solutions to applied math-modeling problems. We, for our part, are always looking for new ways to challenge them. Who better than experienced researchers and academics in the field to come up with our next big problem? If you have a realistic modeling problem in mind that can be studied and "solved" in 14 hours by high school students using only Internet resources and publicly available reference materials, please send it our way! If your problem is selected for the contest, you will be acknowledged by SIAM and will receive a \$500 honorarium. Smaller honoraria will be awarded to problems chosen as samples for the M^3 Challenge website or sent to potential teacher-coaches.

Please find complete details and criteria for M^3 Challenge problems here:

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

::: **CYBER-SIAM UPDATES** :::

An audio-visual glimpse of the Annual Meeting

In keeping with SIAM's efforts to expand its online resources, the 2010 Annual Meeting saw a lot more video recording of sessions, speakers and interviews than ever before. The videos, along with photos and summaries of talks and sessions can be found at the now completed [AN10 Roundup Page](#). Please visit the link below for an overview of the various events and sessions, in addition to Q&As with selected speakers:

<http://www.siam.org/meetings/an10/roundup.php>

We plan to continue to capture and archive representative talks and discussions from SIAM meetings, which we hope will be of interest to the SIAM community. If you have any ideas or suggestions, do send them to us!

Careers in the Math Sciences

Love math, but not sure what to do after graduate school? Earlier this year, *SIAM News* launched a series of professional development articles written by members of the SIAM community in order to help graduates make the transition from school to a successful and satisfying career. The new column, *Careers in the Math Sciences*, was created in response to feedback from members in early stages of their career development. Ranging from tips on getting the perfect reference letter to choosing a good research problem, the series provides useful and innovative ideas for anyone considering a career in the field. The articles are now being archived on the web at <http://www.siam.org/careers/sinews.php>.

::: PRIZES AND AWARDS :::

Nominations for Dahlquist, Kleinman, and Reid prizes open

SIAM is considering nominations for the Germund Dahlquist Prize, the Ralph E. Kleinman Prize, and the W.T. and Idalia Reid Prize. The Dahlquist Prize recognizes original contributions to fields associated with Germund Dahlquist, especially the numerical solution of differential equations and numerical methods for scientific computing. The Ralph E. Kleinman Prize is awarded for contributions that bridge the gap between mathematics and applications, work that uses high-level mathematics or invents mathematical tools to solve problems from engineering, science, and technology. The W.T. and Idalia Reid Prize acknowledges an individual for a notable achievement or achievements contributing to the broadly defined areas of differential equations and control theory.

The nomination deadline is November 15. Please go to the nominations page for details, and to make a nomination:

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

If you have questions, please e-mail littleton@siam.org.

Nominate for SIAG/OPT, SIAG/CST, Best SICON Paper, and Szego prizes

The SIAG/Optimization Prize will be awarded to the author(s) of the most outstanding paper published in the four calendar years 2007-2010 (Nomination deadline Dec. 1). The SIAG/Control and Systems Theory Prize will go to a junior researcher for outstanding research contributions (Nominations due December 1). The SIAG/CST Best SICON Paper Prize will recognize the authors of the two most outstanding papers published in SICON in the calendar years 2009-2010 (Nomination deadline December 1).

The SIAG/Orthogonal Polynomials and Special Functions will make the first award of the Gabor Szego Prize to an early-career researcher for outstanding published research contributions (Nominations due December 31).

Find the open calls for nominations at:
<http://www.siam.org/prizes/nominations.php>

Address any inquiries to littleton@siam.org.

::: CONFERENCE UPDATES :::

Plan now for SIAM CT11!

The [SIAM Conference on Control and its Applications](#) (CT11) to be held July 25—27, 2011, in Baltimore, Maryland is a satellite meeting of [ICIAM 2011](#). If you plan to travel via the U.S. East Coast, this would be the perfect stop on your way back from the ICIAM meeting! The minisymposia submission deadline for CT11 is January 3, 2011. Travel support for students through the SIAM [Student Travel Awards](#) program and for post-doc/early career attendees through NSF-funded [travel grants](#) are available. The application deadline is January 17, 2011. Submit your application at <http://awards.siam.org/>.

Find more details on the CT11 meeting here:
<http://www.siam.org/meetings/ct11/index.php>

More information on travel awards can be found here:
<http://www.siam.org/meetings/tsupport.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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