SIAM Unwrapped
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June 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 we dip our toes in the realm of social media, we are beginning to use our Twitter and Facebook pages, in addition to traditional methods of communication, such as regular and electronic mail to correspond with our community.

Social media offers the sort of instant two-way communication that not only enables us to convey timely information to our members, but also allows you to contact us with any questions or concerns that require immediate feedback. In addition, it promotes discussion among members and enables a conversation on topics of interest within the community.

Check out our Twitter and Facebook pages for updates on SIAM events, prizes, raffles, and news from the larger applied math community.

Regards,

Karthika Muthukumaraswamy
Editor

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::: SIAM HQ UPDATE :::

SIAM annual business meeting

The annual business meeting of SIAM members will occur on Tuesday, July 19, at 7:30 a.m. in Room 109 of the Vancouver Convention Centre during ICIAM 2011. Participation is open to all SIAM members. The meeting will be chaired by SIAM President Nick Trefethen and will include a review of SIAM activities, finances, and plans for the future. Refreshments will be served. Details on the meeting's content and discussion will be posted on the SIAM site after the meeting.

Nominate a SIAM Fellow

We are now inviting nominations for the 2012 Class of SIAM Fellows. If you know of a colleague deserving of the distinction to join this exceptional group of researchers, please send us your suggestions! Selections will be made in the fall of 2011. The SIAM Fellows Program encourages nominations from diverse backgrounds spanning the industrial, private, and public sectors. Members are especially urged to nominate deserving individuals from minority and underrepresented groups. Please refer to the Fellows page for criteria and guidelines:

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

::: CYBER-SIAM UPDATES :::

SIAM's new membership management platform

Most of you have probably used our online customer service portal to renew your membership, manage subscriptions, and register for conferences. If so, you will soon be seeing some changes to the site as SIAM moves to a new and improved membership management system. The new platform, with an anticipated launch date of early August, will continue to provide all the features included in the current system, including renewals, subscriptions and registrations. Over the next several months, we will be adding additional capabilities to the system, such as management of your online account information

and notification settings, better access to your SIAM-related activities, member directories, and an improved online book store. This change should have minimal impact on our members, except for a new interface and improved functionality. The transition dates, once known, will be posted on the current website.

::: PRIZES AND AWARDS :::

SIAM Travel Awards for PP12

Applications are now being accepted for SIAM Travel Awards to [the SIAM Conference on Parallel Processing for Scientific Computing](#) (PP12) to be held February 15-17, 2012 in Savannah, Georgia. Students and postdoctoral applicants, please be advised that the travel award applications must be sent in by **August 1**, two weeks PRIOR to the deadline for submission of abstracts. The online application system for travel awards will close after this date. If you have a student speaker in mind for your minisymposium or if you are advising a student on a contributed presentation, please be sure to alert them to this deadline.

Find the SIAM Travel Award application site at http://awards.siam.org.

Irena Lasiecka to receive Reid Prize at CT11

The W. T. and Idalia Reid Prize will be awarded to Irena Lasiecka during the [SIAM Conference on Control and Its Applications](#) (CT11) to be held July 25-27, 2011 in Baltimore, Maryland. The first woman recipient of this award, Dr. Lasiecka is a professor in the Department of Mathematics at the University of Virginia in Charlottesville. She will receive the Reid Prize medal and deliver the Reid Prize lecture, "Analysis and Control of Coupled PDE Systems Arising in Fluid-Structure and Gas Flow-Structure Interaction," at a plenary session from 9:00—9:30 a.m. on Wednesday, July 27, in Constellation E/F at the Hyatt Regency Baltimore. An abstract of her lecture can be found at:

http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=13701

::: ICIAM UPDATES :::

Advance ICIAM 2011 registration closes June 15!

Next month, more than 3,000 researchers from around the world will head to Vancouver to be a part of the largest international event for the computational and applied mathematics community. The International Congress on Industrial & Applied Mathematics, [ICIAM 2011](#), will take place from July 18—

22 in Vancouver, British Columbia. Advance registration at special rates closes on **June 15, 2011**. Visit www.iciam2011.com to register now.

The complete scientific program can be found at the link below:

http://www.iciam2011.com/index.php?option=com_content&view=article&id=48&Itemid=53

Follow the ICIAM and SIAM Twitter pages to keep up to date with alerts and announcements about the Congress.

SIAM Prizes to be awarded at ICIAM

The CAIMS/MITACS/SIAM Awards Luncheon will take place on Thursday, July 21, from 12 noon to 1:30 p.m., in Exhibit Hall A of Vancouver Convention Centre EAST. Buy a ticket to the event when you pre-register.

The new Class of SIAM Fellows will be honored at the luncheon and prize lecturers Ingrid Daubechies (The John von Neumann Lecture), Susanne Brenner (AWM-SIAM Sonia Kovalevsky Lecture), and Bjorn Engquist (Peter Henrici Prize) will receive their awards.

Go to the link below for more information on the lectures:
http://www.iciam2011.com/index.php?option=com_content&view=article&id=3&Itemid=27

In addition, Gunther Uhlmann will receive the Ralph E. Kleinman Prize and David E. Keyes will be awarded the SIAM Prize for Distinguished Service to the Profession. Authors of the three papers winning the SIAM Outstanding Paper Prizes will also be acknowledged.

Winners of the SIAM Student Paper Prize and the SIAM Award in the Mathematical Contest in Modeling (MCM) will be recognized at the 2012 SIAM Annual Meeting and will have the opportunity to present their winning papers there.

Please find details on all aforementioned prizes sponsored by SIAM below:

http://www.siam.org/prizes/sponsored/

Visit the exhibits at ICIAM 2011

ICIAM 2011 will feature exhibits from a wide variety of organizations ranging from publishing companies, math societies and institutes, government labs, to computer hardware and software vendors. Be sure to visit the exhibit hall, which will also host coffee breaks through the duration of the conference, and offer a great venue to network and meet with other attendees. Delegates may also be interested in visiting United Technologies Research Center's network area on the second floor Beehive foyer at the Vancouver Convention Centre.

Look out for prizes from some of our exhibitors and sponsors. Maplesoft has kindly offered to donate annual term licenses as prizes for lucky attendees. Be sure to follow SIAM on Twitter and Facebook during the ICIAM meeting to find instructions on how to participate.

Find a complete list of exhibitors here:

::: PUBLISHING NEWS AND NOTES :::

Last chance to avail of e-book discounts!

Earlier this year, SIAM began offering e-books with over half its collection going electronic at launch time with the remainder to come soon. Books are offered in PDF format, viewable by chapter, and accessible via Scitation, the same platform that hosts SIAM Journals. In addition to the convenience of electronic access over various browser and computer types, the system makes viewing by individual chapters, searching and cross-searching easier for readers. Institutional members can access all available books electronically via purchase or subscription. The introductory 20% discount available to all subscribers ends **June 30, 2011**. So subscribe now! All SIAM member institutions will continue to receive 20% off the list price throughout their membership terms.

Please contact ebooks@siam.org for details on subscriptions and prices, or visit the ebooks page:

http://www.siam.org/books/ebooks.php

New SIAM Books

Spectral Approximation of Linear Operators

Françoise Chatelin – Université de Toulouse, CERFACS

This classic textbook provides a unified treatment of spectral approximation for closed or bounded operators as well as for matrices. Despite significant changes and advances in the field since it was first published in 1983, the book continues to form the theoretical bedrock for any computational approach to spectral theory over matrices or linear operators. This coverage of classical results is not readily available elsewhere. The book also includes many exercises (with solutions), making it a valuable textbook for graduate students and reference manual for self-study.

Additional information: http://www.ec-securehost.com/SIAM/CL65.html

2011 / xxvii + 458 / Softcover / ISBN 978-0-898719-99-4
List Price $75.00 / SIAM Member Price $52.50/ **Order Code CL65**

Numerical Methods for Large Eigenvalue Problems, Revised Edition

Yousef Saad – University of Minnesota

This revised edition discusses numerical methods for computing eigenvalues and eigenvectors of large sparse matrices. It provides an in-depth view of the numerical methods that are applicable for solving

matrix eigenvalue problems that arise in various engineering and scientific applications. Each chapter in this revised edition was updated by shortening or deleting outdated topics, adding topics of more recent interest, and adapting the Notes and References section accordingly.

Additional information: http://www.ec-securehost.com/SIAM/CL66.html

2011 / xvi + 276 pages / Softcover / ISBN 978-1-611970-72-2
List Price $70.00 / Member Price $49.00 / **Order Code CL66**

Multigrid Techniques: 1984 Guide with Applications to Fluid Dynamics, Revised Edition

Achi Brandt – The Weizmann Institute of Science and University of California at Los Angeles

Oren Livne – University of Utah

Starting from simple examples, this book guides the reader through practical stages for developing reliable multigrid solvers, methodically supported by accurate performance predictors. The revised edition presents discretization and fast solution of linear and nonlinear partial differential systems; treatment of boundary conditions, global constraints and singularities; grid adaptation, high-order approximations, and system design optimization; applications to fluid dynamics, from simple models to advanced systems; new quantitative performance predictors, a MATLAB® sample code, and more.

Additional information: http://www.ec-securehost.com/SIAM/CL67.html

2011 / xxii + 218 / Softcover / ISBN 978-1-611970-74-6
List Price $79.00 / SIAM Member Price $55.30/ **Order Code CL67**

::: CONFERENCE UPDATES :::

Conferences accepting registrations and submissions

SIAM Conference on Control and its Applications, July 25-27, 2011, Baltimore, Maryland, USA

Online registration is open for the SIAM Conference on Control and its Applications. The conference is a satellite meeting of ICIAM 2011. Registration closes on Monday, **June 27**. Check out the program and list of speakers here:

 https://www.siam.org/meetings/ct11/program.php

ACM-SIAM Symposium on Discrete Algorithms, January 17-19, 2012, Kyoto, Japan

 Short abstract submissions are due **July 5, 2011**.

SIAM Conference on Parallel Processing for Scientific Computing, February 15-17, 2012, Savannah, Georgia, USA

Minisymposia proposals are due **July 18, 2011**.

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.