

## ***SIAM Unwrapped - March 2014, Issue 2***

*News & announcements for the SIAM membership community*



Dear SIAM members,

You may already be a fan of SIAM publications. But this issue will leave you in little doubt of the comprehensive reach of SIAM journals. Hear it from our journal editors themselves in a video. And read snippets of the latest research from SIAM journals in the form of “Nugget Bytes”.

Not to be outdone, a SIAM book on a very timely topic receives a well-deserved award.

Regards,  
Karthika Muthukumaraswamy  
Editor

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### **Contents:**

#### **SIAM HQ UPDATE**

- Stay tuned for the 2014 Class of SIAM Fellows

#### **STUDENT NEWS & NOTES**

- Students use math to solve school lunch conundrum
- Welcome to our new student chapters

#### **PUBLIC AWARENESS**

- Introducing SIAM Nugget Bytes
- Latest from SIAM Blogs

#### **PUBLISHING NEWS & NOTES**

- Why publish in SIAM journals?
- ‘Mathematics and Climate’ wins award

#### **UPDATES ON CONFERENCES & PRIZES**

- Child Care Grants for AN14
- Conference programs meet mobile apps
- Student travel funds available for SIAM meetings
- SIAM conference registrations & submissions
- Prize nomination deadlines

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**::: SIAM HQ UPDATE :::**  
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**Stay tuned for the 2014 Class of SIAM Fellows**

Each year, SIAM honors exemplary researchers in the fields of applied mathematics and computational science as Fellows of the Society. Fellows are nominated by the SIAM community and selected based on distinguished research in the field as well as outstanding service to the larger community. The 2014 Class of SIAM Fellows will be announced on March 28, and will be recognized at the [SIAM Annual Meeting](#) to be held July 7-11 in Chicago.

Please go to the link below to learn more about the SIAM Fellows program:  
<http://www.siam.org/prizes/fellows/index.php>

Details about all 2014 Fellows will be available on the above link on the 28<sup>th</sup>.

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**::: STUDENT NEWS & NOTES:::**  
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**Students use math to solve school lunch conundrum**

More than 5,000 high school students across the U.S. used the power of math to answer a very pertinent question in early March: can school lunches be nutritious, delicious, and affordable? In the wake of the U.S. government's [Healthy, Hunger-Free Kids Act of 2010](#), which mandates healthy choices in school lunches, the nutritional value of food served to children in American schools has been a topic of heated debate in Congress and within school districts. Moody's Mega Math (M<sup>3</sup>) Challenge, which is organized by SIAM, posed the question to some of those most affected by its consequences: school students. Close to 1,200 solutions were submitted at the end of the 14-hour long Internet-based contest. On April 28, the top six teams will be invited to present their solutions and face off in a final round at the Manhattan headquarters of The Moody's Foundation, which sponsors the competition.

View the complete problem at <http://m3challenge.siam.org/about/archives/2014/problem14.php>. Read the full press release [here](#). Now in its ninth year, the Challenge expanded to include 45 states and Washington D.C. this year, with the intention of going national in 2016. The goal of the Challenge is to spotlight the significance of math and science to our young generation and inspire them to choose careers in mathematics, economics, and finance.

**Welcome to our new student chapters**

SIAM has over 100 student chapters worldwide, established with the goal of promoting applied mathematics and computational science to students. Chapters help students share and exchange ideas in the field, organize events and conferences, and develop professional development networks.

We would like to welcome our [latest student chapters](#). New chapter representatives, contribute a post to the SIAM Student Blog and tell us what you're up to! E-mail your post to [pao@siam.org](mailto:pao@siam.org).

Don't have a SIAM chapter at your school? Would you like to start one? For more information on forming a chapter, go to <http://www.siam.org/students/chapters/start.php>. Check out this [slide show](#) to learn more about SIAM chapters.

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::: PUBLIC AWARENESS :::  
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### **Introducing SIAM Nugget Bytes**

"Nugget Bytes" help to ensure that our audience doesn't miss exciting research published in SIAM journals. Briefer than Nuggets but no less informative, Bytes give readers a glimpse into some of the most current research in SIAM publications. The [first in the series](#) was published in early March, and applied math to cancer, climate, crime and cameras. Read about math models that help deliver customized radiation therapy to cancer patients and mathematical analysis that evaluates climate models by comparing the distribution of model output data to observed data. A group of researchers develops a reaction-diffusion model to study long-term criminal activity patterns in a population and another group uses a wavelet frame-based approach to correct pixels in over- and underexposed regions in photographs.

Check it out: <http://connect.siam.org/applying-math-to-cancer-climate-crime-and-cameras/>

### **Latest from SIAM Blogs**

Go to [blogs.siam.org](http://blogs.siam.org) for a glimpse at what's going on in the greater mathematical community. Tim Davis writes about the [interesting connections](#) between sparse matrices and the London electronic music scene. Tim Chartier and Miles Abbett break down the [innovations to professional basketball](#) brought about by motion capture cameras and big data. SIAM VP of Industry Tom Grandine distills [thoughts and ideas](#) from our industrial members. And in the first post by a SIAG, Richard Moore of SIAG/NWCS gives an overview of [nonlinear waves and coherent structures](#) and why they are studied.

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::: PUBLISHING NEWS & NOTES :::  
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### **Why publish in SIAM journals?**

Perhaps many of you already consider, submit, and publish your new and exciting findings in SIAM journals. But in case you need convincing that SIAM journals are indeed the leading forum for exchange and discussion of interdisciplinary research among applied mathematicians and computational scientists, we have a video for you:

<http://youtu.be/q9RrckYipdw>

In the above video, editors of various journals and SIAM's Publisher talk about what it means to publish, read, review and edit SIAM journals.

### **'Mathematics and Climate' wins award**

The book, *Mathematics and Climate*, published by SIAM last October, has been honored by the Atmospheric Science Librarians International (ASLI) as the best book of 2013 in the fields of meteorology, climatology, and atmospheric sciences. Focusing on one of the most relevant global issues of this century, the book is a timely treatise of qualitative and quantitative mathematical and statistical methods in climate science. Authors Hans Kaper and Hans Engler received their award at the American Meteorological Society meeting in Atlanta in February. View a picture and read more details here:

<http://connect.siam.org/mathematics-and-climate-wins-award/>

To purchase the book or for more information, visit:

<http://www.ec-securehost.com/SIAM/OT131.html>

October 2013 / xx + 297 pages / Softcover / ISBN 978-1-611972-60-3  
List Price \$59.00 / SIAM Member Price \$41.30 / **Order Code OT131**

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**::: UPDATES ON CONFERENCES & PRIZES :::**  
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### **Child Care Grants for AN14**

SIAM is offering grants of up to \$250 per family for attendees to bring children to the Annual Meeting being held in Chicago in July. For more information and a link to the application form, please visit <http://www.siam.org/meetings/an14/childcare.php>.

### **Conference programs meet mobile apps**

Conference programs for a number of SIAM meetings this year will be available through a mobile app. Many attendees expressed interest in the ability to create a personal calendar on their mobile devices—the app provides this function and much more. Plug [www.tripbuilder.com/siam2014events](http://www.tripbuilder.com/siam2014events) into your mobile browser. The link will automatically detect the type of device and take you to the right place to download the app. Or, view the mobile site in HTML5 by connecting to [www.tripbuilder.net/mw/apps/siam2014events](http://www.tripbuilder.net/mw/apps/siam2014events).

Currently a mobile app for the [SIAM Conference on Uncertainty Quantification \(UQ14\)](#) taking place March 31 – April 3 is available for download. You can select UQ14 from the list of 2014 SIAM events on the app or mobile site.

### **Student travel funds available for SIAM meetings**

SIAM will award several hundred travel awards for graduate students wishing to attend SIAM conferences in 2014. Those eligible are urged to apply! Do you qualify for travel funds? Check out the criteria on the student travel awards page:

<http://www.siam.org/prizes/sponsored/travel.php>

The awards (unless otherwise noted in the award letter) come with free registration. Funds will be allocated on a competitive basis, and include \$650 for domestic and \$800 for international travel. Application instructions are on the awards application site at <http://awards.siam.org/>. Alternatively, visit the [SIAM conference calendar](#) to select the conference of your choice, and click on "Travel Support" from the right-hand navigation menu.

### **SIAM conference registrations & submissions**

[SIAM International Conference on Data Mining \(SDM14\)](#), April 24-26, 2014, Philadelphia, Pennsylvania, USA

[Pre-registration](#) deadline: March 27, 2014

[SIAM Conference on Imaging Science \(IS14\)](#), May 12-14, 2014, Hong Kong

[Online registration](#) still available

[SIAM Conference on Optimization \(OP14\)](#), May 19-22, 2014, San Diego, California, USA

[Pre-registration](#) deadline: April 21, 2014

[SIAM Conference on Financial Mathematics and Engineering \(FM14\)](#), November 13-15, 2014, Chicago, Illinois, USA

Minisymposia proposal [submission](#) deadline: April 16, 2014

Abstracts for minisymposia and contributed speakers due: May 14, 2014

### **Prize nomination deadlines**

[Peter Henrici Prize](#): May 1, 2014

For the complete list of the call for nominations, please visit:

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

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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](mailto:karthika@siam.org).

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.

Please note: If you would prefer not to receive this e-newsletter, reply to this email with the word "unsubscribe" in the subject line and you will be removed from the *SIAM Unwrapped* mailing list.