Science and Industry Advance with Mathematics

About siam

2006

siam

Society for Industrial and Applied Mathematics

"Applied mathematicians believe that new mathematical ideas and areas of study can come from using mathematics to solve problems in physics, chemistry, biology, medicine, engineering, and technology."

"Mathematics," Microsoft® Encarta® Online Encyclopedia 2003
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SIAM's goals are to

- Advance the application of mathematics and computational science to engineering, industry, science, and society;
- Promote research that will lead to effective new mathematical and computational methods and techniques for science, engineering, industry, and society;
- Provide media for the exchange of information and ideas among mathematicians, engineers, and scientists.

Applied mathematics and computational science are everywhere in industry — from the manufacture of aircraft, automobiles, and engines, to the development of textiles, computers, communication systems, and prescription drugs. Problems in applied math and computational science also arise in various service and consulting organizations, as well as within the federal government and its many research initiatives, including biotechnology and advanced materials.

SIAM fosters the development of the methodologies needed in these application areas. It is fitting that the acronym SIAM also represents the society's slogan — Science and Industry Advance with Mathematics.

Just as applied mathematics has grown, so has SIAM membership — from a few hundred in the early 1950s to over 10,000 today. SIAM members are applied and computational mathematicians, computer scientists, numerical analysts, engineers, statisticians, mathematics educators, and students. They work in industrial and service organizations, universities, colleges, and government agencies and laboratories all over the world. In addition, SIAM has over 400 institutional members—colleges, universities, corporations, and research organizations.

To serve this diverse group of professionals:

- SIAM publishes 11 peer-reviewed research journals, including the all-electronic, multimedia *SIAM Journal on Applied Dynamical Systems*; *SIAM Review*, a quarterly journal of peer-reviewed expository, survey, and education-oriented papers; *Theory of Probability and Its Applications*, a translation of a Russian journal; *SIAM News*, a newsjournal reporting on issues and developments affecting the applied and computational mathematics community; and approximately 25 books per year.
- SIAM offers a variety of online services through its home page *(**www.siam.org**)*. All SIAM journals are available electronically over the Web; the print journals are available electronically on an accelerated basis. All journal articles have linked references.
- SIAM conducts an annual meeting and many specialized conferences and workshops in areas of interest to the community.
- SIAM's extensive prize program recognizes outstanding applied mathematicians, both students and professionals. Over a dozen plenary lectures and prize-winning papers are presented at SIAM conferences as part of the prize program.
- SIAM sponsors 15 special interest activity groups, which provide additional opportunities for professional interaction and informal networking.
- SIAM sponsors regional sections for local technical activities and student chapters that bring faculty and students together in activities consistent with SIAM's objectives.
- SIAM's Visiting Lecturer Program helps link speakers with interested groups to educate and develop interest in a variety of topics.

Membership

Individual Members

www.siam.org/membership/indmem.htm

SIAM is an international community of over 10,000 individual members, including applied and computational mathematicians, computer scientists, other scientists and engineers, educators, and students.

These individual members receive the following benefits:

- Networking opportunities with peers;
- Visibility in the applied mathematics and computational science communities;
- Access to cutting-edge research;
- Subscription to *SIAM News*;
- Subscription to *SIAM Review*;
- 80% discount on up to four SIAM print journals;
- 95% discount on electronic access to all current and archival SIAM journal content;
- 30% discount on all SIAM books;
- Up to 30% discount on SIAM conferences and workshops;
- Eligibility to vote, hold office, and serve on SIAM committees to help guide the future of the organization and the profession;
- Opportunity to join SIAM activity groups to explore common interests and exchange ideas with peers;
- Every regular member can nominate two students for free SIAM membership.

To join SIAM online go to my.siam.org/cust_serv

Special Rates

Postgraduate memberships are available at 50% off the price of regular membership to individuals for up to three consecutive years immediately after they receive their highest degree.

Membership rates are discounted by more than 75% for students, residents of developing countries, and members who are retired, disabled, or unemployed.

Student Members

www.siam.org/students/

Students are the future of applied mathematics and computational science. SIAM offers students many opportunities to participate in the profession with greatly discounted and free memberships, student chapters, 85% discount on SIAM conference registrations, information on careers in mathematics, and prizes to reward excellence.

A full-time graduate or undergraduate student at any college or university who is studying mathematics, engineering, computer science, physical science, or who uses mathematics or computational methods in any field of study, is eligible to become a Student Member of SIAM. Students can join SIAM for less than one quarter of the fee paid by Regular Members, and can join SIAM for free if they:

- attend a SIAM Academic Member institution ***www.siam.org/membership/academic/academic_members.php***
- are a member of a SIAM Student Chapter ***www.siam.org/students/chapters/current.php***
- or are nominated by a Regular Member of SIAM ***my.siam.org/forms/nominate.htm***

For details, go to ***www.siam.org/membership/individual/free.php***

Students receive the same benefits as Regular Members (listed on this page), plus free membership in one SIAM Activity Group (SIAG).

Academic Members

www.siam.org/membership/academic

Academic Membership is open only to degree-granting institutions. Colleges, universities, and their departmental units receive a selection of SIAM journals that matches their needs as well as discounts on purchases of SIAM books. Complimentary student memberships are available to students who attend an institution that is an Academic Member of SIAM. Additional information on Academic Membership, including the list of more than 500 international Academic Members, may be found at the URL above. This list is also available upon request from SIAM's customer service department. For an application, go to ***www.siam.org/membership/applications.htm***

Corporate/Institutional Members, Affiliates, Sponsors, and Partners

www.siam.org/membership/corporate.php

SIAM has membership options that encompass a full range of corporate/institutional support. The choices range from a discounted package of SIAM's journals to discounts on exhibiting and advertising with SIAM. Membership is the long-standing option for those corporations and institutions that value SIAM for its resources and research support. Members receive discounted subscriptions to SIAM's prestigious journals (print or electronic), discounts on book purchases, employee discounts at conferences, and public acknowledgment of their support in SIAM News, in our journals, and at our meetings. Our Affiliate option is also for those interested in SIAM journals, but it allows more flexibility when choosing a set of journals. Affiliates receive a discount on journals, and can subscribe to any number, print or electronic. Affiliates also receive discounts on all book purchases. A Sponsor option is available for those organizations that wish to make a contribution to SIAM (either a general donation or one earmarked for a particular activity) without receiving any subscriptions or discounts in return. Partnership is designed for those who have a business relationship with SIAM; it allows discounts on advertising and exhibiting.

Get Involved

Sections

www.siam.org/join/sections/index.php

SIAM encourages the formation of sections consisting of members residing in a geographic area. Sections organize their own one- and two-day meetings. Some sections involve nearby student chapters in their meetings.

SIAM does a marvelous job serving and promoting the applied and industrial mathematics community. It provides an extensive and exciting collection of journals and books, runs as many as 18 conferences a year, and is tireless in advocating the importance of mathematics and its applications. SIAM is an effective, open, democratic, and welcoming society with many proud members.

— Mary C. Pugh
University of Toronto

Student Chapters

www.siam.org/students/chapters

Student chapters of SIAM are formed at universities, colleges, and units of government or industry to encourage the promotion of applied mathematics and computational science to young mathematicians and computational scientists. Chapters provide students with opportunities to get to know faculty members outside of the classroom, share ideas and research with people with similar interests, learn about careers in applied mathematics and computational science, and develop networks with professors and fellow students. Chapters draw members from various departments across the campus, ranging from mathematics and applied mathematics to statistics, engineering, computer science, physics, and biology.

The activities of student chapters can include lunch discussions about career opportunities; lectures by guest speakers; research presentations by faculty, graduate students, and undergraduates; team projects; social functions; and field trips to industrial laboratories or SIAM section meetings.

Student chapters of SIAM are currently active at the following institutions:

Arizona State University
Auburn University
California Institute of Technology
Clemson University
Columbia University
Drexel University
Emory University
Florida State University
Loyola Marymount University
Middle East Technical University
New Jersey Institute of Technology
North Carolina State University
Rensselaer Polytechnic Institute
Rice University
Rochester Institute of Technology
Stanford University
Stevens Institute of Technology
Texas Tech University
Trinity University
Tufts University
University of Arizona
University of California, Davis
University of California, Los Angeles
University of Colorado, Boulder
University of Colorado, Colorado Springs
University of Colorado, Denver
University of Delaware
University of Florida
University of Illinois, Chicago
University of Maryland, College Park
University of Oklahoma
University of Pittsburgh
University of South Carolina, Columbia
University of Southern California
University of Tennessee
University of Texas
University of Washington
Virginia Polytechnic Institute and State University
Washington University
Worcester Polytechnic Institute

SIAM Activity Groups (SIAGs)

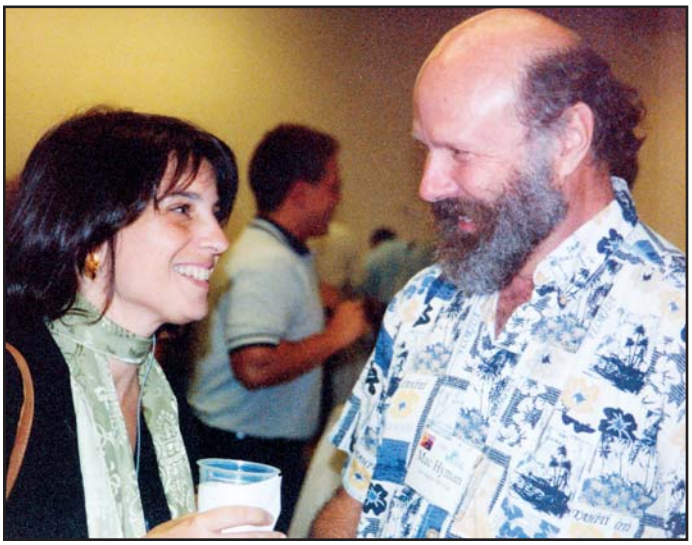
www.siam.org/activity

Activity groups provide opportunities for SIAM members to communicate with colleagues and stay current in a particular discipline or application area. SIAG members organize their own activities, including conferences, minisymposia, newsletters, electronic mailing lists, prizes, and Web sites. SIAG members may receive targeted communication from peers and additional discounts on SIAG-sponsored conferences. Each year, a directory of members is compiled for each activity group and distributed to its members. There are currently activity groups on:

- **Analysis of Partial Differential Equations**
  Michael Shearer, Chair
- **Computational Science and Engineering**
  Lori Freitag Diachin, Chair
- **Control and Systems Theory**
  Arthur J. Krener, Chair
- **Discrete Mathematics**
  Derek G. Corneil, Chair
- **Dynamical Systems**
  John M. Guckenheimer, Chair
- **Financial Mathematics and Engineering**
  Rene A. Carmona, Chair
- **Geometric Design**
  Mike Neamtu, Chair
- **Geosciences**
  Lynn S. Bennethum, Chair
- **Imaging Science**
  Guillermo Sapiro, Acting Chair
- **Life Sciences**
  John Rinzel, Chair
- **Linear Algebra**
  Ilse C. F. Ipsen, Chair
- **Nonlinear Waves and Coherent Structures**
  Alejandro Aceves, Chair
- **Optimization**
  Kurt M. Anstreicher, Chair
- **Orthogonal Polynomials and Special Functions**
  Peter Clarkson, Chair
- **Supercomputing**
  William D. Gropp, Chair

SIAM is a wonderful organization that provides many opportunities for its members to communicate the latest research with one another, both directly at conferences and indirectly through its journals and newsletter.

— Tamara G. Kolda
Sandia National Laboratories



Visiting Lecturer Program

www.siam.org/visiting

SIAM's Visiting Lecturer Program (VLP) offers a valuable resource to chairpersons, colloquium organizers, student chapters, and undergraduate/graduate advisors: a roster of applied mathematicians in academia, industry, and government who are able to speak to students on a variety of topics. The visitors are experienced speakers who, in addition to their accomplishments in applied mathematics, have been recommended for their commitment to education and their ability to reach students. Most VLP topics can be adapted to different audiences. Access our VLP listing online for speakers' bios and talk titles, as well as guidelines and forms for host institutions.

Publications

SIAM NEWS

www.siam.org/news

SIAM News is *the* newsjournal of the applied mathematics community. Typical issues include technical overview articles, commentaries on the issues that affect the mathematical sciences community, book reviews, news about legislation and funding, a calendar of events, and professional opportunity advertisements.

Journals

www.siam.org/journals

SIAM has a comprehensive publishing program in applied and computational mathematics. Each journal has its own home page detailing editorial policy, editorial board with e-mail links, instructions for authors, TEX resources, staff and subscription information, tables of contents, and more.

SIAM Journals Online (1997–present)

epubs.siam.org

All SIAM journals are available in enhanced electronic editions. Electronic issues begin with the 1997 volumes. Journal article reference lists contain links to cited papers via CrossRef (where available) and to reviews in MathSciNet. In addition, because 11 journals publish papers electronically well in advance of the print version, a subscription to SIAM Journals Online allows access to significantly more content than a print-only subscription. A sample issue is available online at *http://epubs.siam.org/sampleissue.htm.*

LOCUS (1952–1996)

locus.siam.org

SIAM's Online Journal Archive, 1952–1996. Locus contains electronic full text for every SIAM journal article published from the journal's inception through 1996.

SIAM Journals

SIAM Review has a long tradition of publishing some of the most important papers in applied and computational mathematics. Boasting the highest impact factor in applied mathematics, *SIAM Review* is a must-read for all SIAM members; it consists of five sections, all containing articles of broad interest. In addition to *SIAM Review* (**R. B. Schnabel**, Editor-in-Chief) and the Russian translation, **Theory of Probability and Its Applications** (edited by **W. Klump**), SIAM publishes 11 peer-reviewed research journals:

Multiscale Modeling and Simulation: A SIAM Interdisciplinary Journal features research articles focusing on the fundamental modeling and computational principles underlying various multiscale methods. Quarterly.
T. Y. Hou, Editor-in-Chief.

SIAM Journal on Applied Dynamical Systems is a peer-reviewed, all-electronic, multimedia journal that publishes research articles on the mathematical analysis and modeling of dynamical systems and its application to the physical, engineering, and life sciences. Many articles contain multimedia enhancements. Included with membership in the SIAM Activity Groups on Dynamical Systems and Life Sciences. Published continuously.
T. J. Kaper, Editor-in-Chief.

SIAM Journal on Applied Mathematics contains research articles on mathematical methods and their applications in the physical, engineering, financial, and life sciences. Bimonthly.
L. P. Cook, Editor-in-Chief.

SIAM Journal on Computing contains research articles on the application of mathematics to the problems of computer science and the nonnumerical aspects of computing. Bimonthly.
E. Tardos, Editor-in-Chief.

SIAM Journal on Control and Optimization contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations, dynamics, infinite-dimensional spaces, or fundamental issues in variational analysis and geometry. Bimonthly.
J. Baillieu, Editor-in-Chief.

SIAM Journal on Discrete Mathematics contains research articles on a broad range of topics from pure and applied mathematics, including combinatorics and graph theory, discrete optimization and operations research, theoretical computer science, and coding and communication theory. Quarterly.
J. R. Griggs, Editor-in-Chief.

SIAM Journal on Mathematical Analysis features research articles of the highest quality employing innovative analytical techniques to treat problems in the natural sciences. Bimonthly.
W. A. Strauss, Editor-in-Chief.

SIAM Journal on Matrix Analysis and Applications contains research articles on linear algebra with emphasis on applications and numerical procedures. Quarterly.
H. A. van der Vorst, Editor-in-Chief.

SIAM Journal on Numerical Analysis contains research articles on the development and analysis of numerical methods. Topics include the rigorous study of convergence of algorithms, their accuracy, their stability, and their computational complexity. Bimonthly.
M. D. Gunzburger, Editor-in-Chief.

SIAM Journal on Optimization contains research articles on the theory and practice of optimization with emphasis on optimization theory, algorithms, software, computational practice, applications, or the links between these subjects. Quarterly.
N. I. M. Gould, Editor-in-Chief.

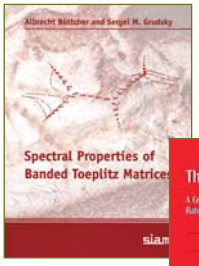
SIAM Journal on Scientific Computing contains research articles on numerical methods and techniques for scientific computation. Bimonthly.
U. Rüde, Editor-in-Chief.

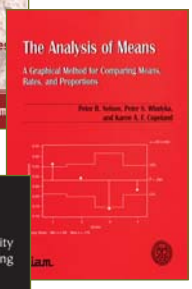
Book Series

www.siam.org/books

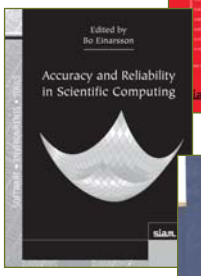
Advances in Design and Control
Editor-in-Chief: **Ralph C. Smith**,
North Carolina State University.
This series publishes texts and monographs dealing with all areas of design and control applications.

ASA-SIAM Series on Statistics and Applied Probability
Editor-in-Chief: **Martin T. Wells**,
Cornell University.
These books are tutorials, surveys, or expository works written for statisticians, mathematicians, engineers, and operations researchers.

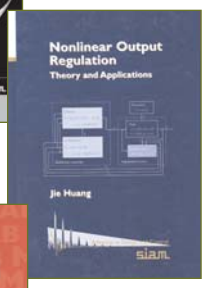


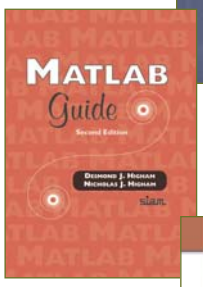


CBMS-NSF Regional Conference Series in Applied Mathematics
Books in this series are derived from lectures by outstanding mathematicians on thoughtfully chosen topics of current research interest.

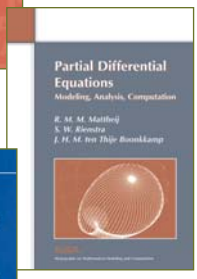


Classics in Applied Mathematics
Editor-in-Chief: **Robert E. O'Malley, Jr.**,
University of Washington.
This series consists of outstanding textbooks and research monographs that were once declared out of print.

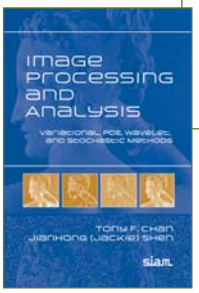




Computational Science and Engineering
Editor-in-Chief: **Omar Ghattas**,
University
of Texas, Austin.
This series publishes interdisciplinary research monographs, textbooks, and other volumes of interest to computational scientists and engineers.



Frontiers in Applied Mathematics
Editor-in-Chief: TBA.
This series concentrates on the latest advances in mathematics research and their relationship to new and exciting areas of scientific change.



Fundamentals of Algorithms
Editor-in-Chief: **Nicholas J. Higham**,
University of Manchester.
These short monographs on numerical methods and algorithms to solve specific classes of problems are written for researchers, practitioners, and students.

Monographs on Discrete Mathematics and Applications
Editor-in-Chief: **Peter L. Hammer**, Rutgers University.
This series publishes the most recent theoretical, computational, or applied developments in the field.

Monographs on Mathematical Modeling and Computation
Editor-in-Chief: **Richard Haberman,**
Southern Methodist University.
Authors in this series describe topical mathematical techniques and developments and introduce applied mathematicians to modern scientific and engineering applications.

MPS-SIAM Series on Optimization
Editor-in-Chief: **Michael Overton**,
Courant Institute.
This series aims to advance optimization research and to encourage the integration of optimization into all areas of applied mathematics and operations research.

Proceedings in Applied Mathematics
SIAM publishes selected proceedings of its own and other leading conferences; topics reflect the latest techniques in applied mathematics and computer science.

Software, Environments, and Tools
Editor-in-Chief: **Jack J. Dongarra**,
University of Tennessee at Knoxville and Oak Ridge National Laboratory.
This series includes handbooks and software guides, as well as monographs on practical implementation of computational methods, environments, and tools.

Studies in Applied and Numerical Mathematics
This series contains research monographs of an interdisciplinary nature on broadly defined topics in applied mathematics.

Other Titles in Applied Mathematics
Graduate and undergraduate textbooks, problem books, tutorials, handbooks, software manuals, and other general applied mathematics titles fall under this category.

Conferences

www.siam.org/meetings

SIAM conferences focus on timely topics in applied and computational mathematics and applications such as ocean and climate modeling, computer and communications networks, financial engineering, combustion, modeling of materials, the application of mathematics and computation to the life sciences, and discrete algorithms in computer science. SIAM conferences provide a place for members to exchange ideas and to expand their network of colleagues in both academia and industry.

The SIAM Annual Meeting provides a broad view of the state of the art in applied mathematics, computational science, and their applications through invited presentations, prize lectures, minisymposia, short courses, and contributed papers and posters. Information on SIAM conferences is available online at ***www.siam.org/meetings/calendar.php.***

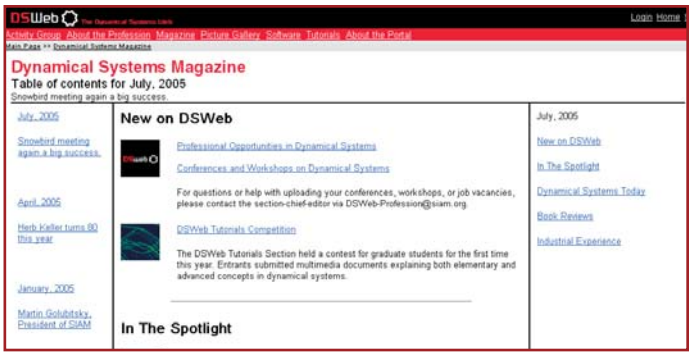
I can certainly extol the virtues of being a SIAM member . . . A few things that come immediately to mind are SIAM Review *(worth the price of admission alone!), reduced registration fees for members at all the SIAM conferences,* SIAM News*, member discounts on SIAM books, the knowledge that one is supporting a society that speaks out nationally and internationally for applied math and computational science, and the new CS&E book series. But best of all is being part of a community with a bunch of wonderful people!*

—Omar Ghattas
Carnegie Mellon University

Electronic Services

www.siam.org

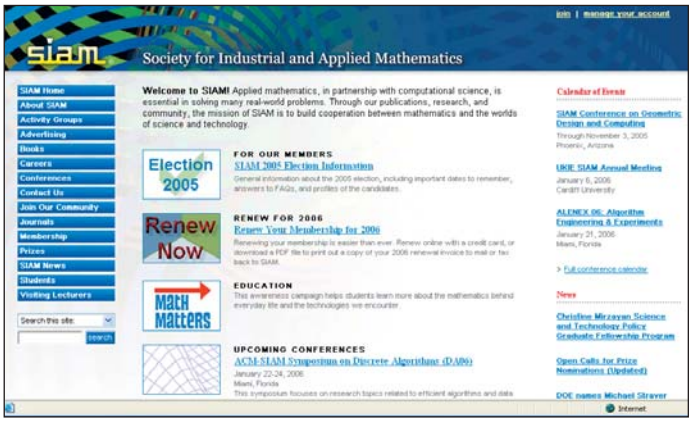
SIAM's World Wide Web home page offers online access to SIAM's electronic journals, the complete book catalog, conference programs and announcements, *SIAM News* professional opportunities and articles, membership information, author instructions, TEX resources, SIAM people, career information, a student page, and more. Please visit it often and direct your feedback about the Web site to SIAM's Online Services Manager at ***webmaster@siam.org.***



SIAM Web Services

my.siam.org/cust_serv

Transact your SIAM business online— it's quick, secure, and easy. Join SIAM, subscribe to publications, and update the information in your member or customer profile.



Public Awareness

www.siam.org/about/science

SIAM is a founding member of the International Council on Industrial and Applied Mathematics, which promotes industrial and applied mathematics to a global audience through the quadrennial International Congress on Industrial and Applied Mathematics (ICIAM).

On the national level, SIAM represents the needs of its members to key agencies for funding research and developing science policy. SIAM works with the offices of congressional representatives and funding agencies in Washington, D.C., as well as other organizations, to promote research funding for applied mathematics and scientific computing. To further these purposes, SIAM is a member of various advocacy organizations such as the Coalition for National Science Funding which advocates on behalf of the National Science Foundation, the Computing Research Association, and the Joint Policy Board for Mathematics. Since 2001, SIAM has had its own voice in Washington, D.C., to speak on behalf of its members in the areas of applied mathematics and computational science regarding science policy and to serve as the champion for these important areas of research.

Industry Connections

SIAM has developed programs to bring into focus the importance of the many real problems facing government and industry and to stimulate interest in the mathematical and computational methodologies that apply. One such program is a series of Mathematics for Industry conferences at which interactions within the context of mathematical models and complex systems are stressed and where other mathematical themes of interest to industry, government, business, and finance are encouraged. Another is "Mathematics in Industry"—a study of the industrial environment for applied and computational mathematicians that resulted in recommendations for improving the match of graduate education to the needs of industry. A report of the first phase of the study is available in print and on the Web at ***www.siam.org/mii/miihome.htm***. A second phase explored ideas presented in the report at six regional workshops with the goal of encouraging courses, projects, and programs.

SIAM's mission is largely to promote professional interchange between those who develop applied mathematics and those who use it. SIAM represents a wonderful synergy between academia and industry.

— John G. Lewis
Cray, Inc.

Prizes and Awards

www.siam.org/prizes

SIAM conducts an extensive prize program to recognize outstanding applied mathematicians and computational scientists. Prize recipients are individuals and teams, students, young researchers, accomplished lecturers, and distinguished scientists. Prizes are awarded for individual papers, research contributions, lifetime achievement, and service to the mathematical sciences community. Over a dozen plenary lectures and awarded papers are presented at SIAM conferences as part of the prize program.

SIAM sponsors/co-sponsors the following awards: AWM-SIAM Sonia Kovalevsky Lecture, George David Birkhoff Prize (with AMS), I. E. Block Community Lecture, Julian Cole Lectureship, Germund Dahlquist Prize, George B. Dantzig Prize (with MPS), Richard C. DiPrima Prize, Peter Henrici Prize (with ETHZ), ICIAM Pioneer Prize (funded by SIAM), JPBM Communications Award (with AMS, ASA, and MAA), Ralph E. Kleinman Prize, Lagrange Prize for Continuous Optimization (with MPS), Frank and Brennie Morgan Prize for Outstanding Research in Mathematics by an Undergraduate Student (with AMS and MAA), George Polya Prize, W. T. and Idalia Reid Prize in Mathematics, SIAM/ACM Prize in Computational Science and Engineering, SIAM Outstanding Paper Prizes, SIAM Prize for Distinguished Service to the Profession, Theodore von Kármán Prize, The John von Neumann Lecture, Norbert Wiener Prize (with AMS), James H. Wilkinson Prize in Numerical Analysis and Scientific Computing.

SIAM prizes for students include the SIAM Student Paper Prize and the SIAM Award in the Mathematical Contest in Modeling. SIAM also gives several SIAM Student Travel Awards each year so students can attend SIAM meetings and conferences.

SIAM Activity Group (SIAG) prizes are awarded at SIAG conferences: SIAG/Analysis of Partial Differential Equations Prize; SIAG/Control and Systems Theory Prize; SIAG/Linear Algebra Prize; SIAG/Optimization Prize; and two SIAG/Dynamical Systems prizes, the J. D. Crawford Prize and the Jürgen Moser Prize.

SIAM Officers

www.siam.org/about/board.php

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SIAM Headquarters

The SIAM staff of more than 60 full- and part-time employees is organized by function: Accounting, Acquisitions, Conferences, Customer Service, Editorial, Information Systems, Marketing, Membership, Production, *SIAM News*, Warehousing and Shipping, and the Office of the Executive Director.

SIAM has a computer-based system for transaction processing and marketing and extensive office systems for internal and external applications, including Web-based journal submissions and peer review, desktop publishing, LaTeX manuscript processing, and a local area network linked to the Internet. Every staff member is accessible to anyone who has access to the Internet by the address ***(last name)@siam.org.*** The SIAM home page is ***www.siam.org.***

Corporate Members

www.siam.org/membership/corporate.php

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Air Force Office of Scientific Research

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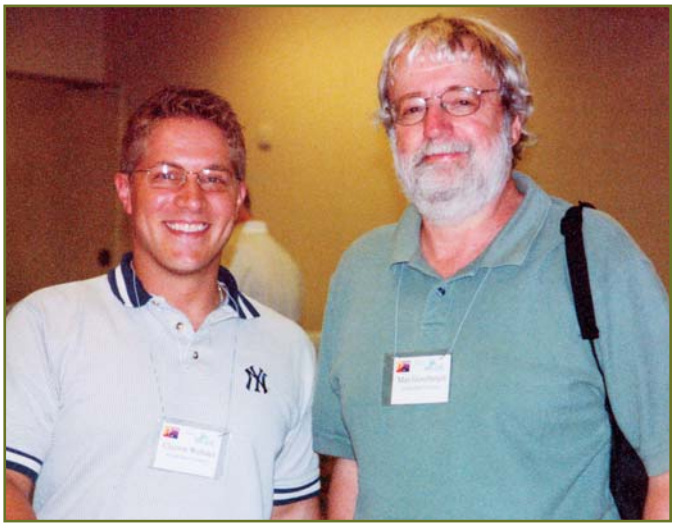

As an author, editor and editor-in-chief, I have seen how SIAM has successfully adopted new technology to make the editorial process more efficient, thereby reducing the time from submission to first review, and to reduce the time from acceptance to publication on the web.

— C. T. Kelley
North Carolina State University

My interactions with SIAM have been a source of professional enlightenment and personal joy.

—Noel G. Barton
CSIRO, retired

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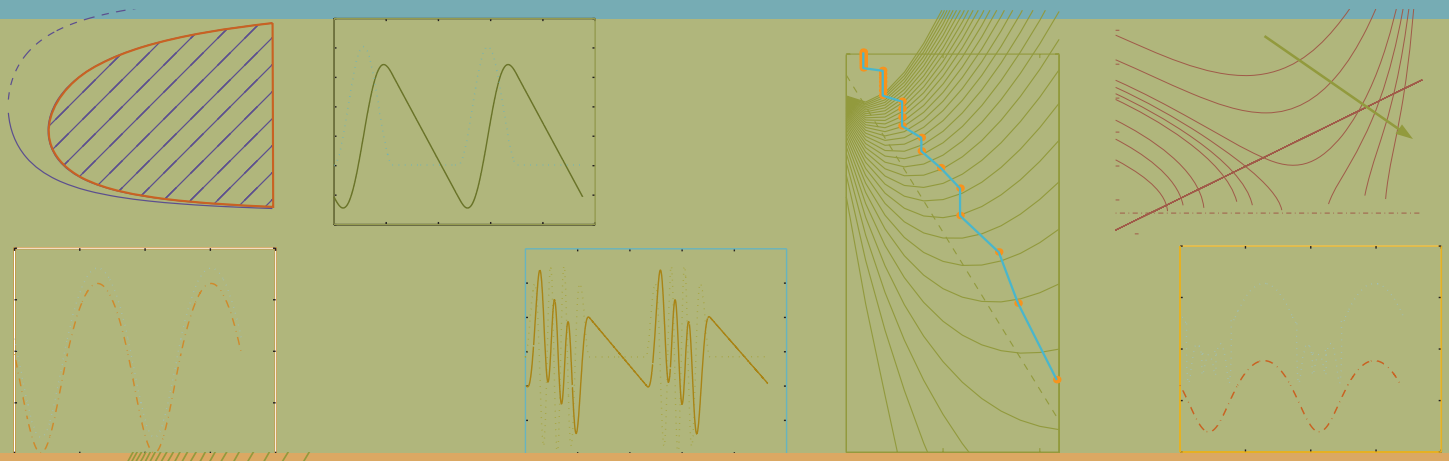

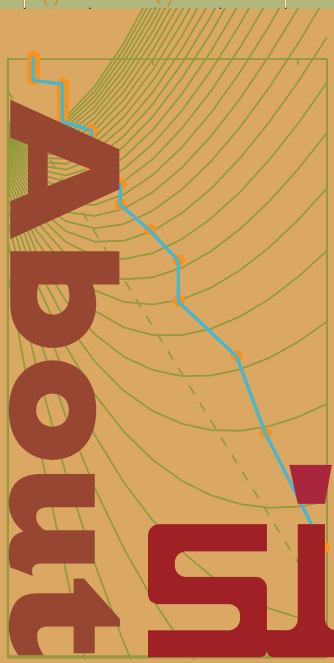

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Science and Industry Advance with Mathematics