



SIAG on CS&E Business Meeting

Elected officers and appointed officials

- Chair
Lori Freitag Diachin, Lawrence Livermore National Lab
- Vice-chair
Jim Glimm, SUNY-SB and Brookhaven National Lab
- Secretary
Tamara Kolda, Sandia National Lab
- Program Director
Omar Ghattas, Carnegie-Mellon University
- Communications Director
Andrew Lumsdaine, Indiana University
- Academic Outreach
Kris Stewart, San Diego State University

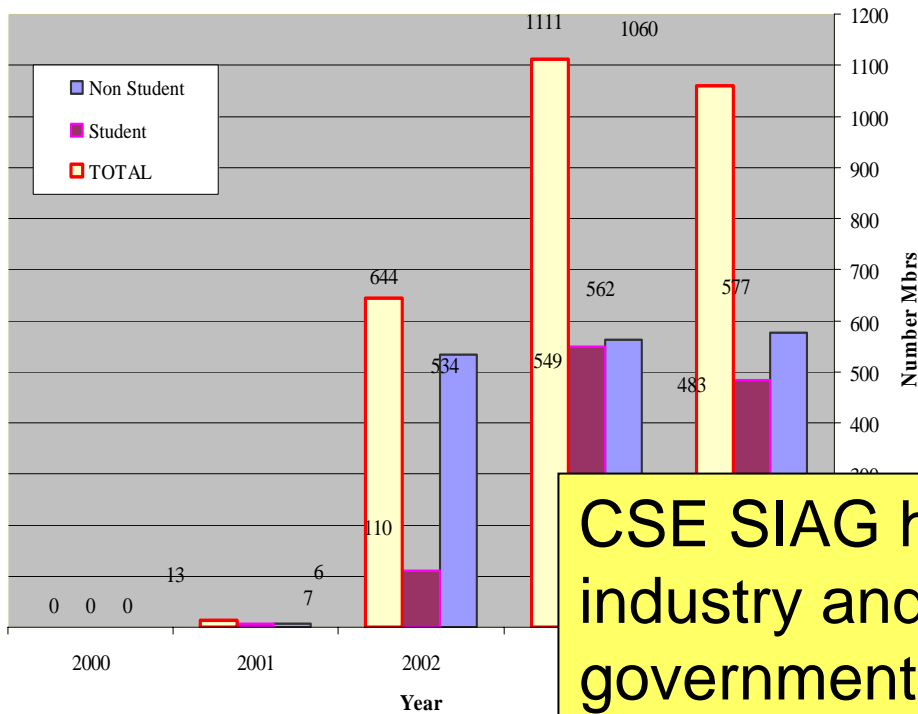


Agenda

- Membership
- SIAG activities
- Changes to the SIAG
- Open Forum

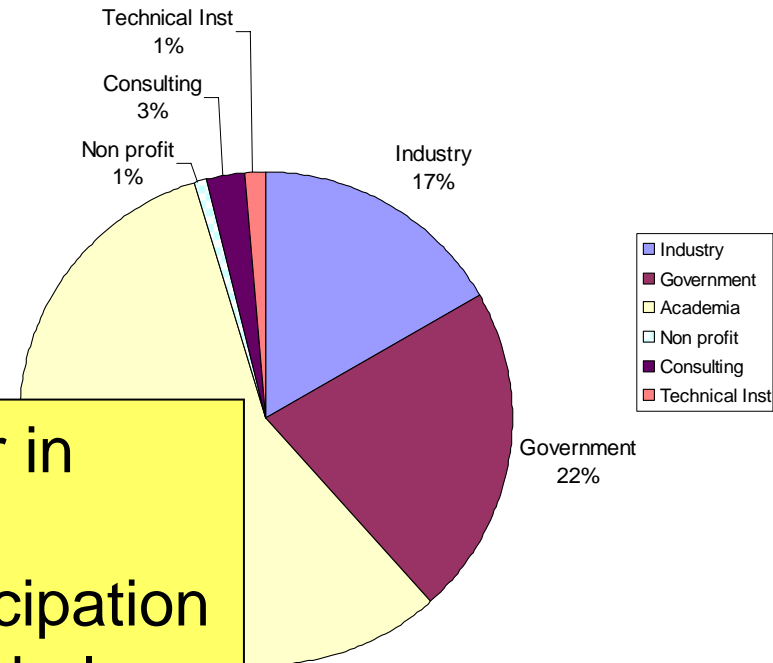
SIAG Membership

SIAG/CSE Membership History



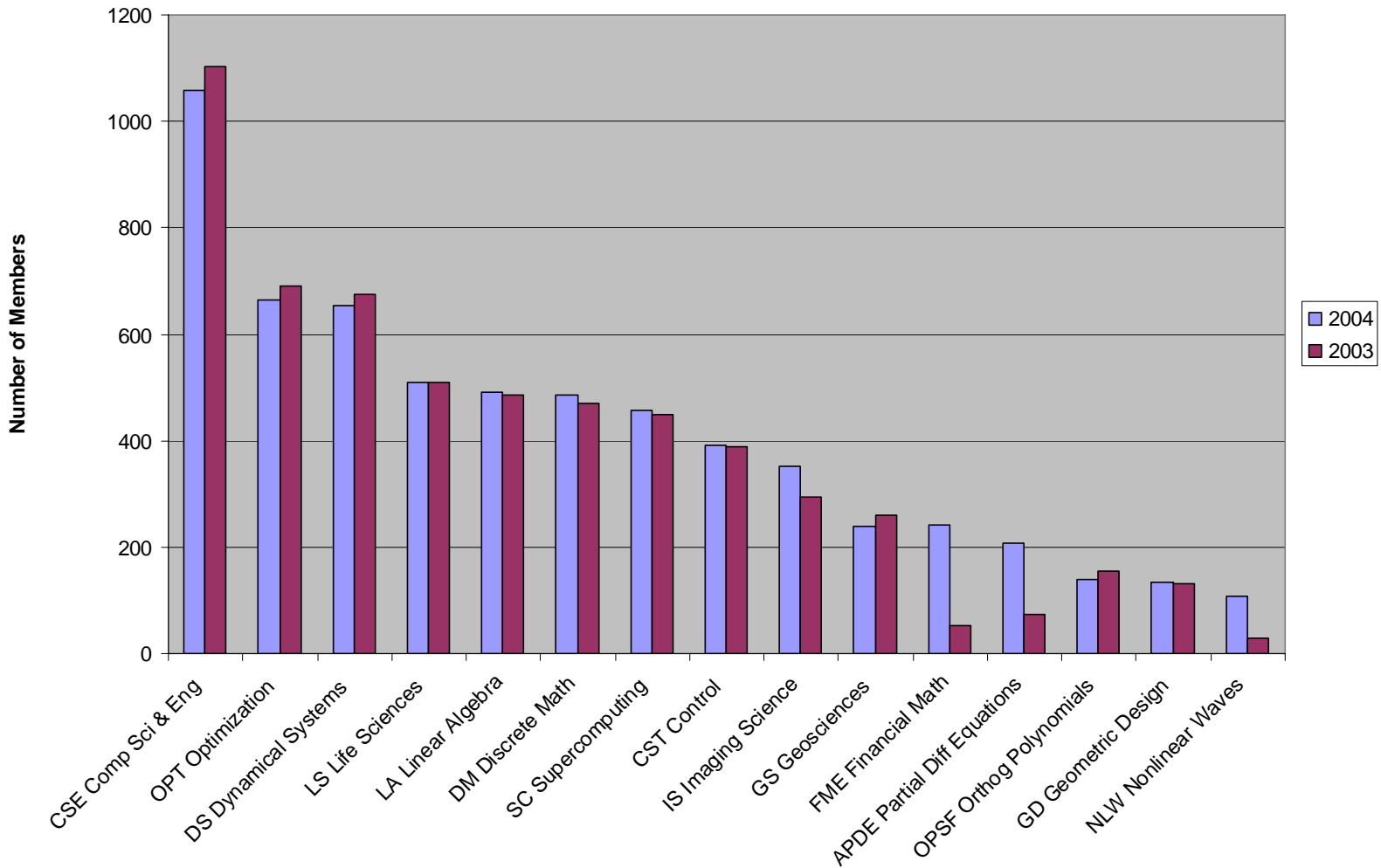
CSE SIAG higher in industry and government participation than SIAM as a whole

SIAG/CSE MEMBERS BY EMPLOYER TYPE
(not including students)
Sample size = 319 (55% of total non-student membership)



CSE is SIAM's largest SIAG

SIAG Membership



We need to do more to attract computational *domain* scientists

- CS&E is a growing field with appeal to applied mathematicians, computer scientists, and **domain scientists**
 - SIAM is well positioned to be *the* professional society for CS&E
 - Use CS&E as a way to broaden SIAM
- We need to attract non-mathematicians to SIAM
 - Emphasize the interdisciplinary nature of CS&E
 - Talk up SIAM to your non-SIAM colleagues
 - *SIAG can co-sponsor workshops and other meetings!*
- **44 new SIAM members at this meeting!**



Current SIAG Activities

- CSE Conference Series
- Web/list serve/newsletter
- Presence at SIAM Annual Meeting
- SIAM News

And Related Activities

- Book Series in CS&E

CS&E Conference Series

■ Attendance History

- 2005: Feb. Orlando, FL **574 Total**
- 2003: Feb. San Diego, CA 543 Total, 69 Student
- 2000: Sept. Washington, DC. 444 Total, 58 Student

■ This meeting

- Number of talks: 545 in 82 minisymposium sessions,
52 contributed sessions
- Number of posters: 20
- Demographics (preregistered): 120 labs, 20 industry
- Working to get university and international participation numbers future planning

Thank you Organizing Committee and SIAM!

- Special thanks to

Omar Ghattas, SIAG-CSE Program Director
Eric de Sturler and John Shadid, Co-Chairs
Coley Lyons and Connie Young, SIAM



- Organizing Committee

Lori Freitag Diachin, Lawrence Livermore National Lab

Eric de Sturler, University of Illinois, Urbana-Champaign

John Shadid, Sandia National Laboratories

Timothy Barth, NASA Ames Research Center

Iain Duff, Rutherford Appleton Laboratory,

Omar Ghattas, Carnegie Mellon University

James Glimm, State University of New York, Stony Brook

Robert J. Harrison, Oak Ridge National Laboratory

Thomas Hughes, University of Texas, Austin

Steve Jardin, Princeton University

Kirk Jordan, IBM Life Sciences Solutions

Laxmikant Kale, University of Illinois, Urbana-Champaign

Tamara G. Kolda, Sandia National Laboratories

Jill Mesirov, MIT and Harvard University

Anthony Mezzacappa, Oak Ridge National Laboratory

Sadasivan Shankar, Intel Corporation

Anne Trefethen, Engineering and Physical Sciences
Research Council

Mary Wheeler, University of Texas, Austin

CSE07 Conference

■ Co-Chairs

- Bruce Hendrickson
- Max Gunzberger
- Jill Mesirov
- Andy Wathen

Will include some topics from the annual meeting (An07 will be in Zurich)

- Student day
- Diversity day
- Some prizes?
- Committee meetings?

■ Feb 2007

■ Location TBD; under consideration

- San Francisco, Phoenix/Scottsdale, San Antonio/Houston/Dallas

■ Input desired on

- Short course topics
- Additional themes for the conference
- Location preferences
- Organization – days of the week? Limit submissions (1 per)?

Presence at Annual Meeting

- “Track” at least once every five years
 - 6 minisymposium sessions
 - Required in new Rules of Procedure
- Sponsored minisymposia during off CSE conference years
 - Special designation in the conference program
 - If you have ideas for a session; see Omar Ghattas

SIAG/CSE Mailing List

- Initiated in Nov 2004
- Open only to SIAG/CSE members
 - All members *should* be automatically subscribed
 - Subscription requests & updates can be submitted via the web page
- The following types of postings are appropriate for this mailing list.
 - **SIAG/CSE Business Mailings** including solicitations for SIAG/CSE-sponsored conferences and minisymposia, announcements of SIAG/CSE-related conferences and minisymposia, calls for nominations for SIAG/CSE prizes, and other SIAG/CSE-related announcements
 - **Postings from SIAG/CSE members** including announcements of new technical reports, papers, or software, advertisements for open positions, and other relevant announcements.
 - **SIAM Announcements** including new SISC electronic publications and general conference announcements and other news.
- Web page: <http://lists.siam.org/mailman/listinfo/siam-cse>

SIAG Web Pages

- Our URL is <http://www.siam.org/siags/siagcse.htm>
- Working with SIAM to create a more web content for our SIAG
- Related activities for other SIAGs:
 - DSWeb Magazine:
<http://www.dynamicalsystems.org/ma/>
 - Optimization News & Views:
<http://www.mat.uc.pt/siagopt/>
 - e-digests: Discrete Math, Ortho.Polys.
- Other ideas?

SIAM News

- SIAM News seeks articles. Sources:
 - Submissions by freelance writers
 - Submissions from the community
 - Leads from conference talks and discussions (perhaps an overview of this meeting)
 - Suggestions from SIAGs
- Chance for CS&E to speak to entire community
- Ideas:
 - Articles on CS&E education – undergrad, grad levels
 - Overviews on challenges/tools for CS&E domain areas



The SIAM/ACM prize in CS&E

- Jointly awarded by SIAM and ACM
- Recognizes outstanding contributions to the development and use of mathematical and computational tools and methods for science and engineering problems
- Achi Brandt, Weizman Institute in Rehovot, Israel awarded the 2005 prize at this conference
- See SIAM web site for more information

SIAM Book Series on Computational Science & Engineering

Editor-in-Chief

Omar Ghattas
Carnegie Mellon University

Associate Editor

David Keyes
Columbia University

Editorial Board

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San Diego State University and University of Zurich

Lori Freitag Diachin
Lawrence Livermore National Laboratory

Charbel Farhat
Stanford University

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SUNY - Stony Brook

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*University of California - Berkeley and
Lawrence Berkeley National Laboratory*

Rolf Jeltsch
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University of Illinois

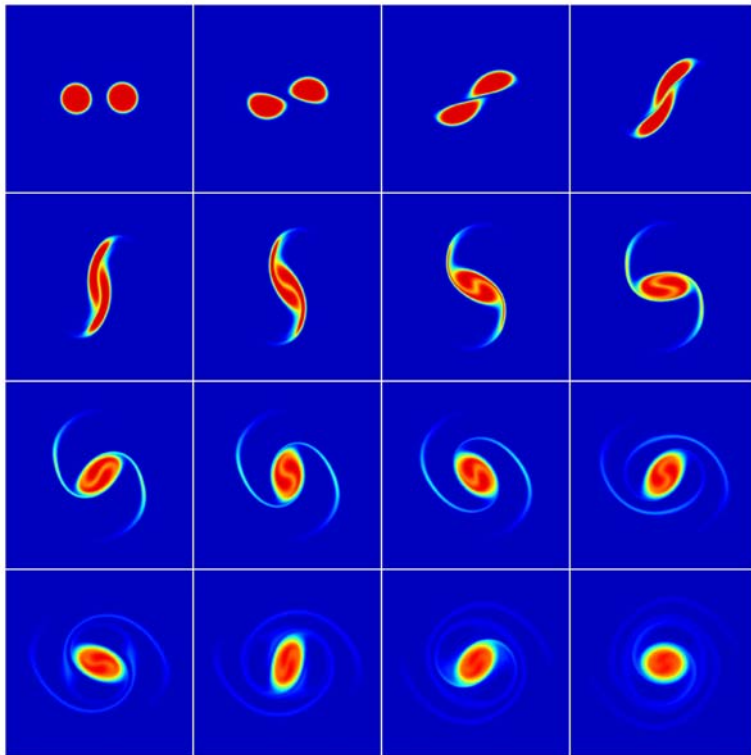
Jelena Kovacevic
Carnegie Mellon University

Habib Najm
Sandia National Laboratory

Alan Needleman
Brown University

Alex Pothén
Old Dominion University

Mary Wheeler
University of Texas - Austin



Mark Peterson, Univ Colorado - Boulder

Possible topics for books in this series

Advanced discretization methods
Computational biology and bioinformatics
Computational chemistry and chemical engineering
Computational earth and atmospheric sciences
Computational electromagnetics
Computational fluid dynamics
Computational medicine and bioengineering
Computational physics and astrophysics
Computational solid mechanics and materials
Coupled multiphysics problems
CS&E education

Discrete and combinatorial algorithms for CS&E
Inverse problems and data assimilation
Meshing and adaptivity
Multiscale methods and models
Numerical algorithms for CS&E
Optimal design and optimal control
Parallel and distributed computing
Problem-solving environments
Scientific visualization
Sensitivity analysis
Software and middleware systems for CS&E
Uncertainty quantification and stochastic methods

Proposals appropriate for the Computational Science and Engineering series should be sent to:

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or

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

Changes to the Rules of Procedure

- New ROP (the Bylaws of the SIAG)
- See <http://www.siam.org/siags/rpSIAGCSE.htm> for current (old) rules.
- Biggest change: 2-year cycle for officers to make consistent with conference cycle.
- Discussing how/when to phase in, probably the next regular election cycle (Jan 07)

Election of Officers

- See <http://www.siam.org/siags/practices.htm> for standard election practices.
- Requires 2 candidates per office (contested);
- Each will serve 2 years
- Nominating Committee
 - composed of 4-6 members; at least two of whom should not be current officers of the SIAG.
- Nominating Committee seeks advice/suggestions from the SIAG membership



Open Forum

- Questions
- Comments
- Suggestions
- Complaints

How can this SIAG best serve your needs?