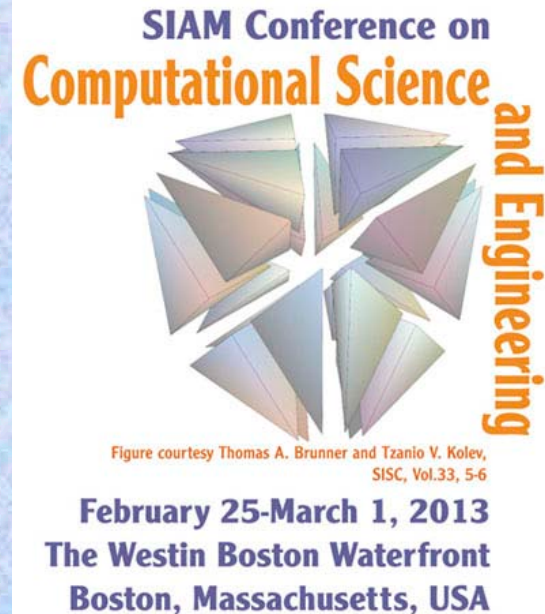


SIAG/CSE BUSINESS MEETING

Thursday, February 28, 2013
6:45-7:45 pm





Agenda

1. Welcome
2. SIAG/CSE election 2012 - new officers - outgoing officers
3. Membership report
4. Announcements
 - a. Next SIAG/CSE election 2014 for officers starting 1/1/2015
 - b. Communication
 - i. SIAG/CSE electronic mailing list siam-cse@siam.org
 - ii. Wiki.siam.org/siag-cse
 - iii. SIAM News
5. CSE13 Conference
6. Possible CSE Student Prize
7. Possible changes for future CSE conferences, next meetings CSE15, CSE17
 - a. Location
 - b. Timing
 - c. Program committee
8. Petzold Report Update
9. Possible other SIAG/CSE activities for the future
10. Adjourn



NEW CSE OFFICERS

1/1/2013-12/31/2014

- Chair: **Uli Ruede**
- Vice Chair: **Karen Willcox**
- Program Director: **Lois Curfman McInnes**
- Secretary: **Hans De Sterck**



THANKS TO THE OUTGOING SIAG/CSE OFFICERS

Kirk Jordan, Chair,

Carol Woodward, Vice Chair

Karen Willcox, Program Director

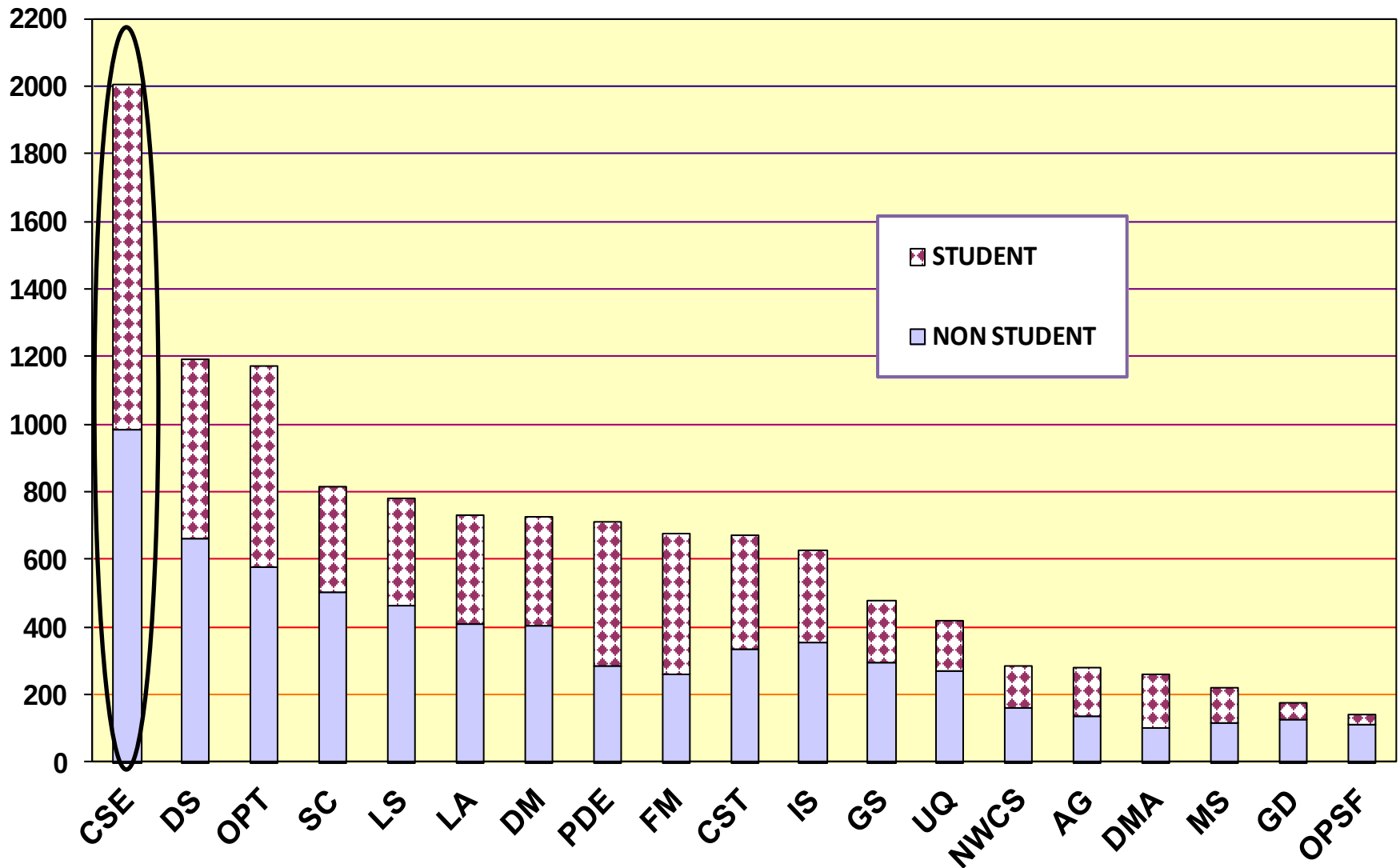
Luke Olson, Secretary/Treasurer

SIAG/CSE MEMBERSHIP REPORT (as of 12/31/12)

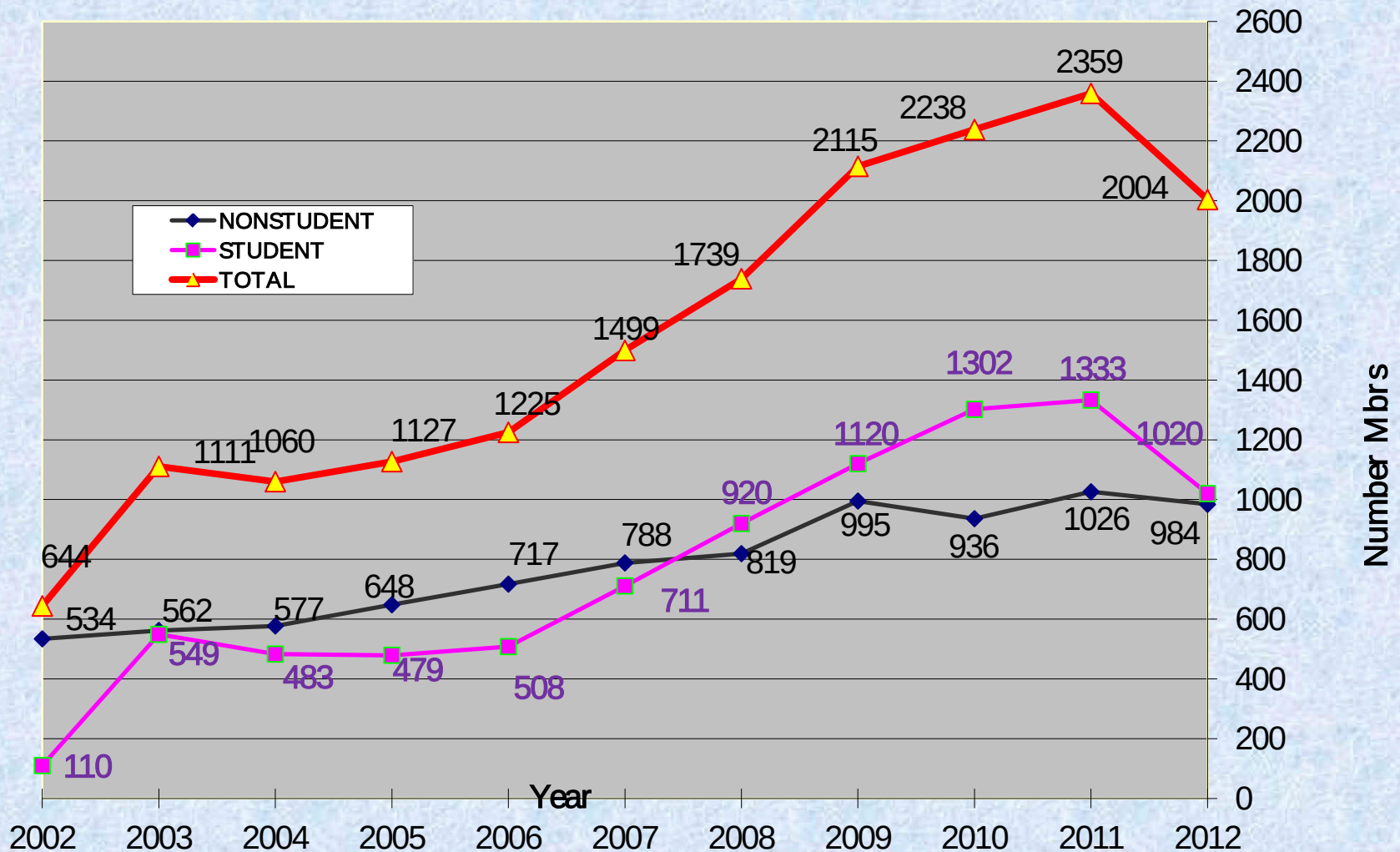


12,362 SIAM ACTIVITY GROUP MEMBERSHIPS (as of 12/31/12)

51% of all nonstudent and 47% of all student members belong to 1 or more SIAGs

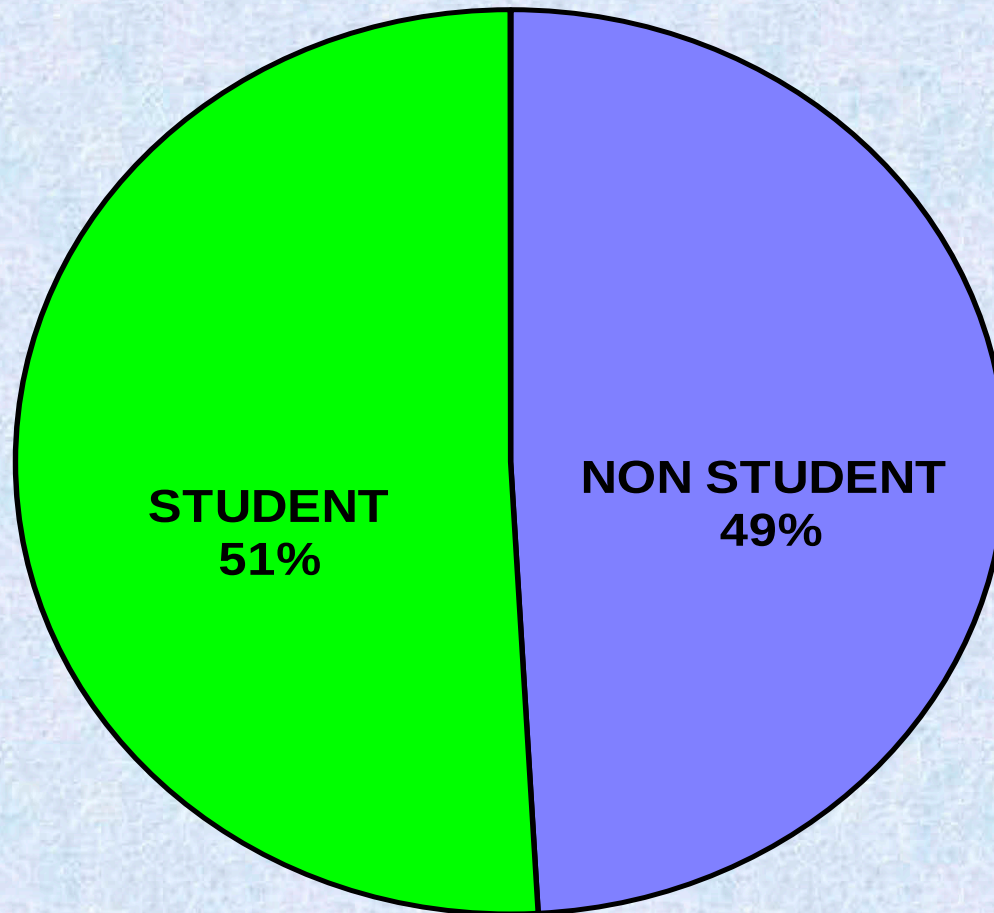


SIAG/CSE Membership History



SIAG/CSE MEMBERS

2004 as of 12/31/12



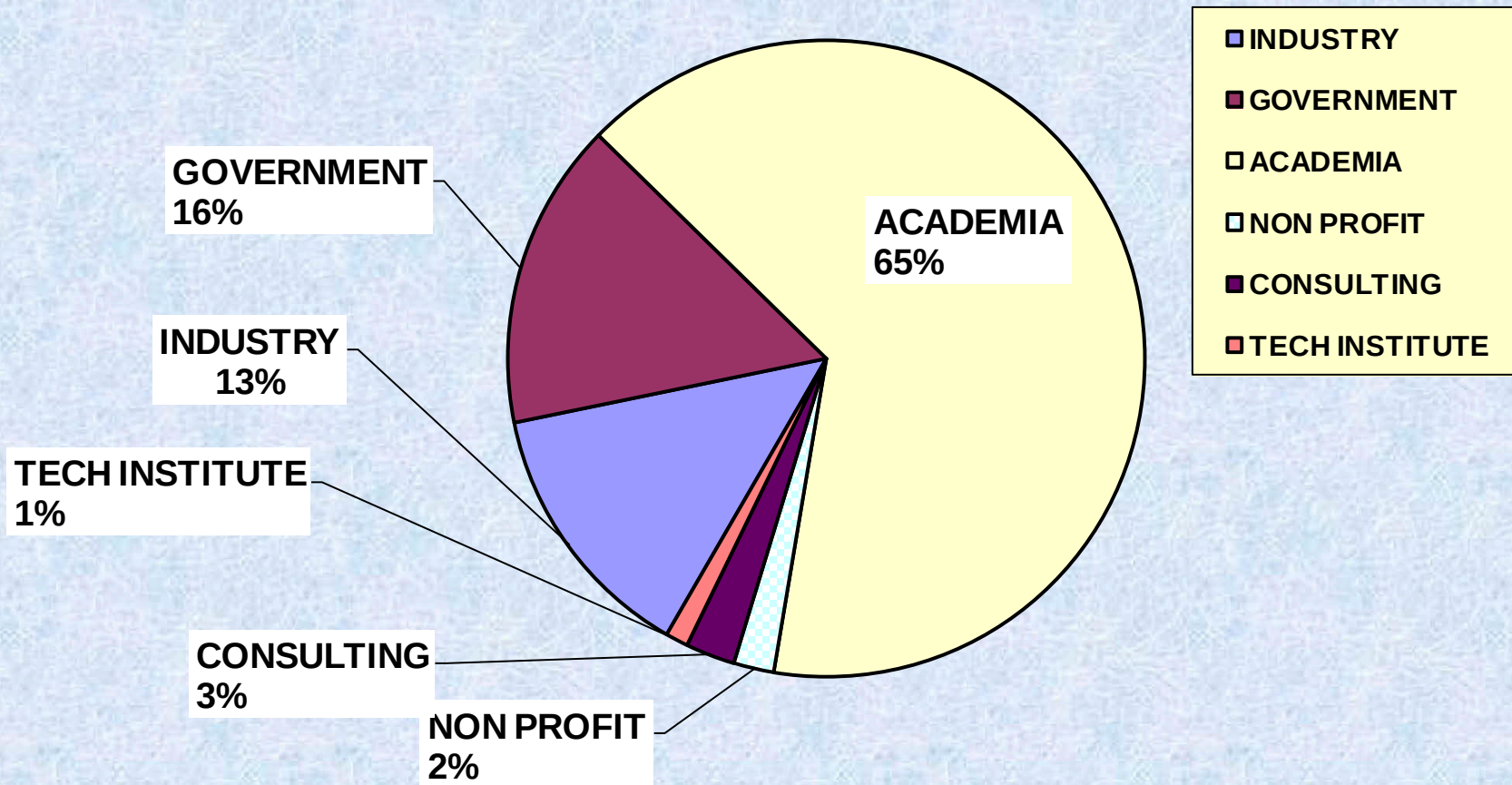
■ NONSTUDENT

■ STUDENT

SIAG/CSE MEMBERS BY EMPLOYER TYPE

not including students

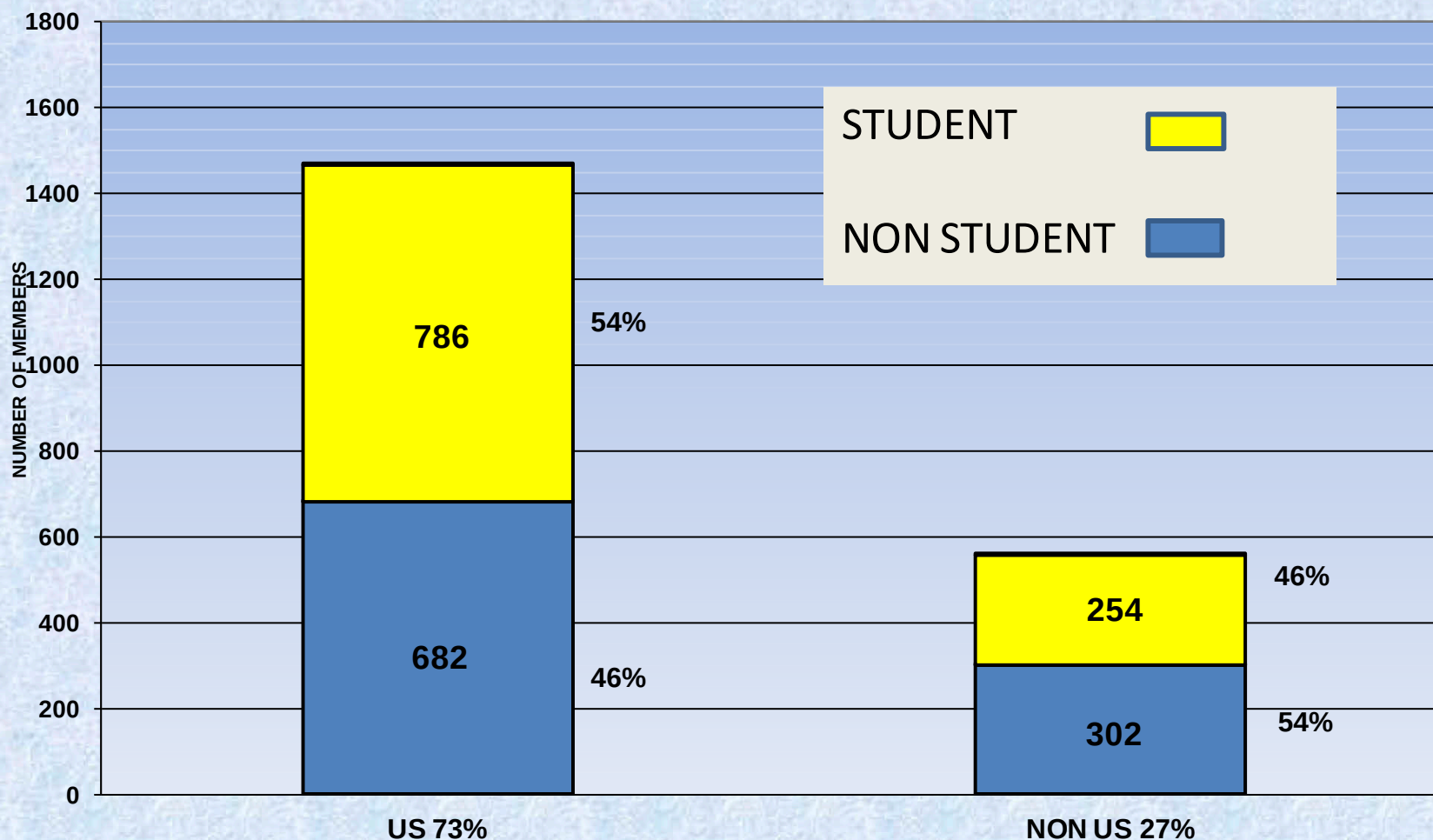
(information available on 89% of all SIAG/CSE nonstudent members)





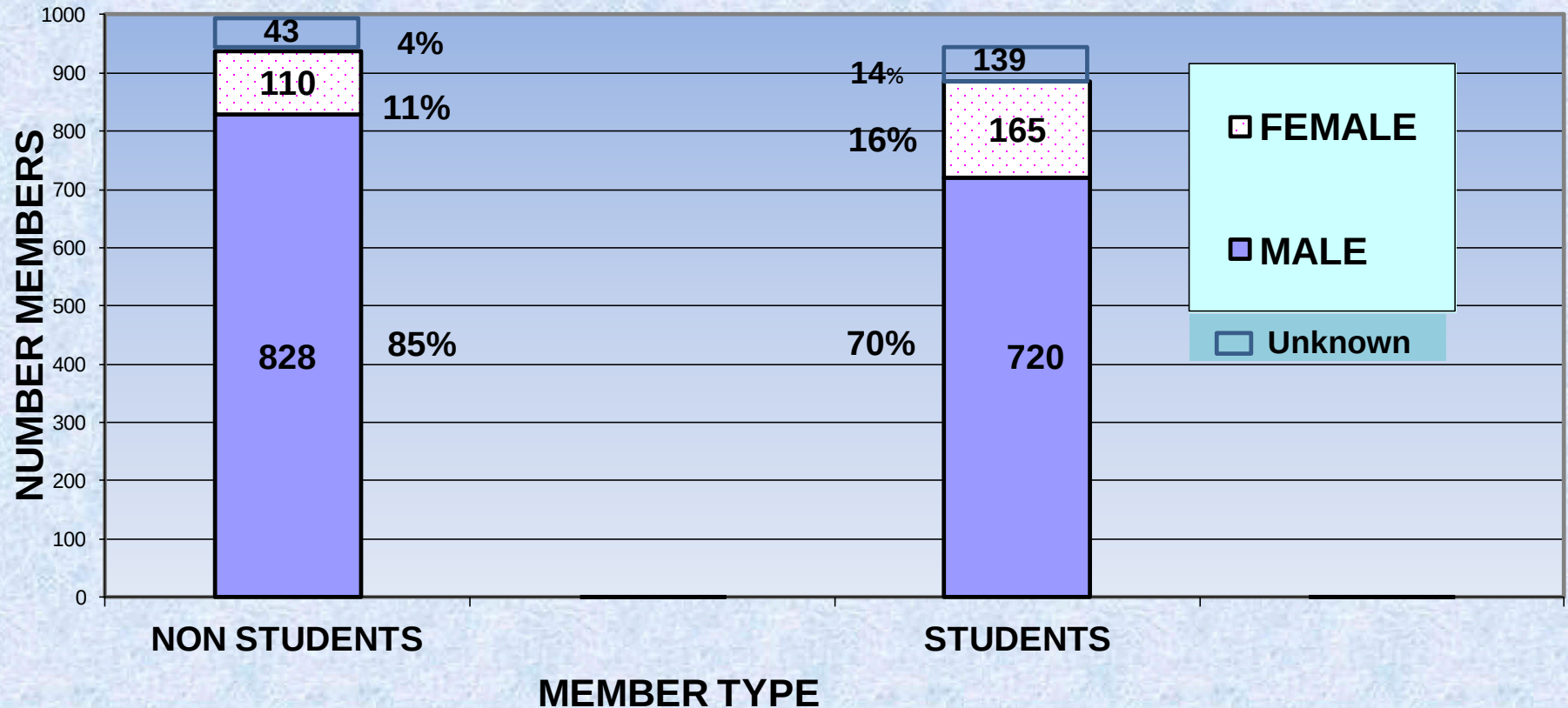
SIAG/CSE MEMBERS BY GEOGRAPHY

73% US, 27% Outside US

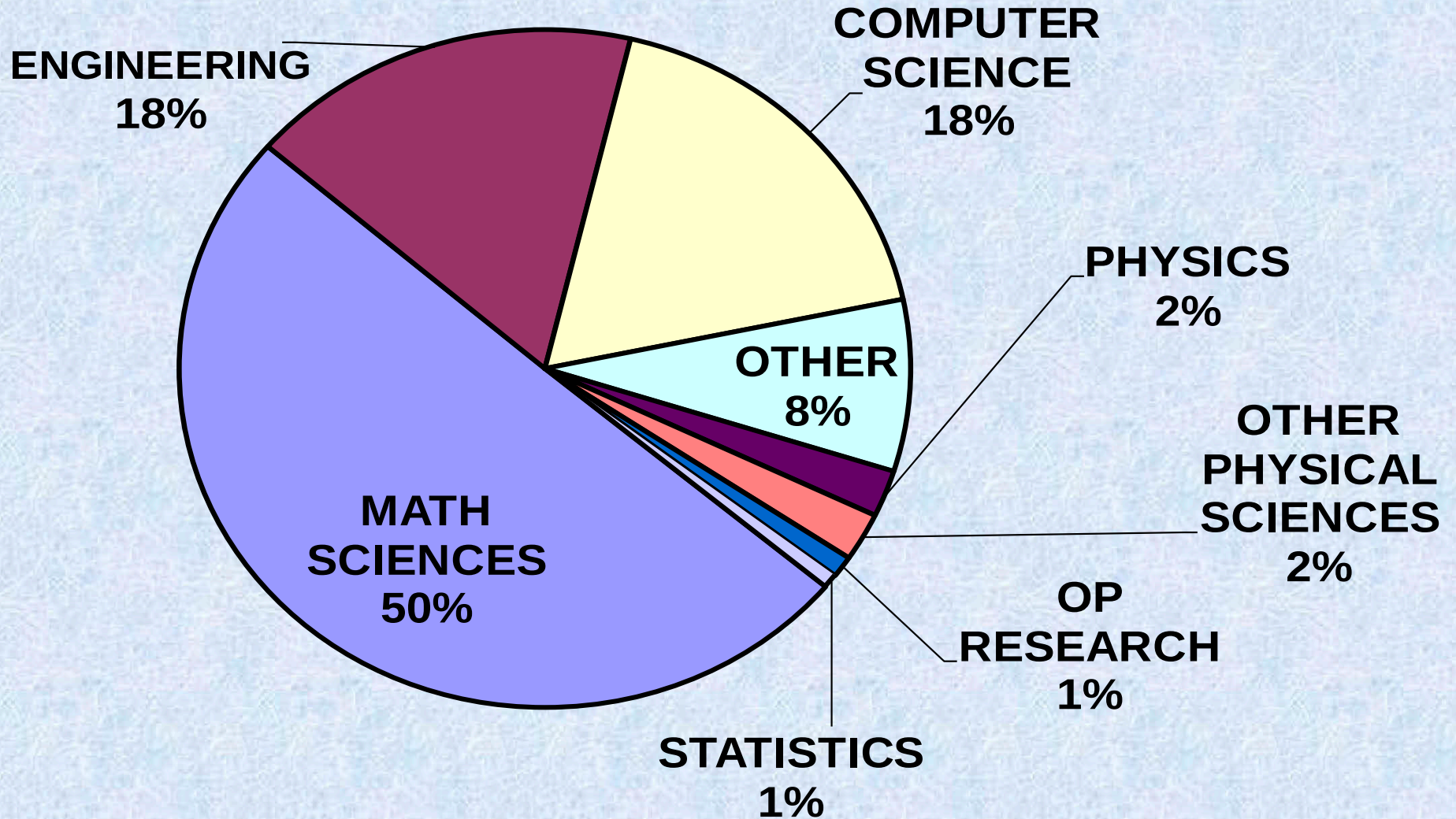


SIAG/CSE MEMBERSHIP BY GENDER

MALE 77% FEMALE 14% Unknown 9%



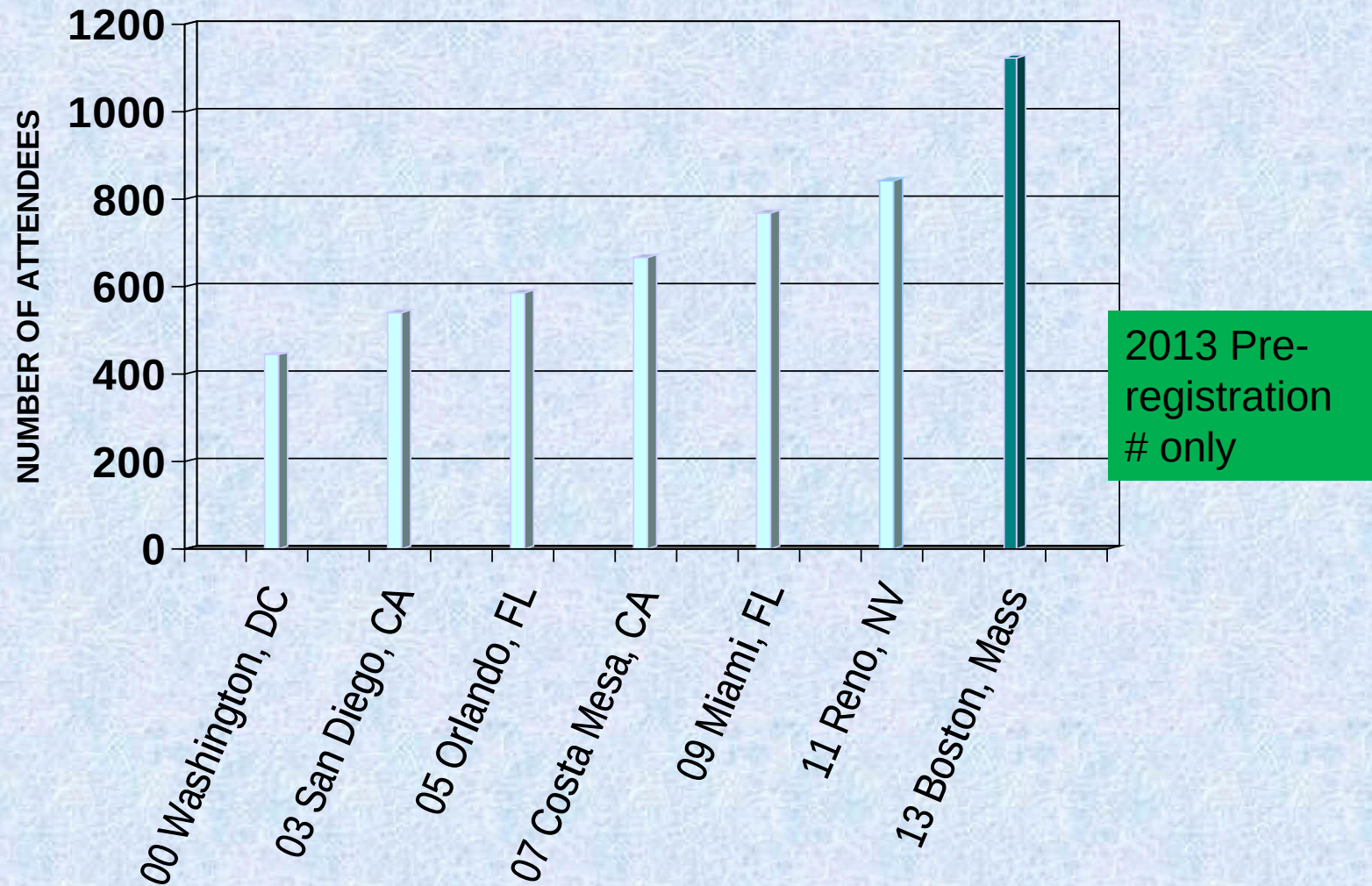
SIAG CSE DEPARTMENTS



ANNOUNCEMENTS

- SIAG/CSE next election 2014
- SIAG/CSE charter renewal 2014
- SIAG/CSE wiki:
 - <http://wiki.siam.org/siag-cse/>
- SIAG/CSE electronic mail list
 - siam-cse@siam.org
- SIAM News: Story ideas

SIAG/CSE CONFERENCE HISTORY



SIAG/CSE CONFERENCE CSE13

Organizing Committee Co-chairs:

Karen Willcox, Massachusetts
Institute of Technology, USA

Hans Petter Langtangen, Simula
Research Laboratory and University
of Oslo, Norway

FUTURE CONFERENCES: AN14

- SIAG/CSE track at AN14
- July 7-11, 2014
- Chicago, Illinois, USA
- Kirk Jordan, SIAG/CSE rep on organizing committee

NEXT CONFERENCE: CSE 15

Organizing Committee Co-chairs:

Hans De Sterck, University of Waterloo

Chris Johnson, University of Utah

Lois Curfman McInnes, Argonne National
Laboratory

Late February, 2015

Location to be determined

SIAM CSE Conference: Format Considerations

- **SIAM CSE Conference is a leading biannual focal point**
 - Vibrant exchange of ideas among mathematicians, computer scientists, and domain scientists in academia, industry, labs
 - CSE continuing education in new and rapidly evolving technologies
 - Outreach to students and junior researchers to promote CSE career paths
- **But large size creates challenges: difficulties in format scalability**
 - Now a 5-day meeting with >20 parallel sessions: impossible scheduling task
 - Potential for continued growth in future years
- **Objectives for considering alternative format**
 - Maintain SIAM CSE conference role as the premier international conference in the field, while balancing conference quality, networking, and logistics

CSE 15: Possible Revision to Format

Current format:

- Plenary speakers
- Panels
- Poster session with poster blitz
- Contributed minisymposia (2-hour blocks, 4 speakers @ 25 min each)
- Contributed presentations (15 min each)

Possible alternative format:

- Plenary speakers
- Panels
- Poster session with poster blitz
- 20-30 *themed* minisymposia
 - 2-hour blocks with 4 speakers @ 25 min each
- Contributed* minisymposia
 - 2-hour blocks with 6 speakers @ 15 min each
 - can have a “double slot” (if more than one session)
- NO** contributed talks

SIAM CSE Conference: Discussion

- **Conference format**
- **Possible locations for CSE15, CSE17**
 - **Factors to consider include**
 - Accessibility
 - Possible use of convention center to accommodate large size
- **Conference timing**
 - Biennial, late February, in alternating years with SIAM Conference on Parallel Processing for Scientific Computing
 - Annual schedule?
- Organize “**CSE-Tracks**” at **SIAM PP** (as our sister conference) (David Bader as chair of SIAG SC has reacted positively)

CSE PRIZES

- Possible new SIAG/CSE (Student) Prize
 - As sustainable replacement for BGCE prize
 - Poster Prize
 - Increase visibility and attendance of student competition

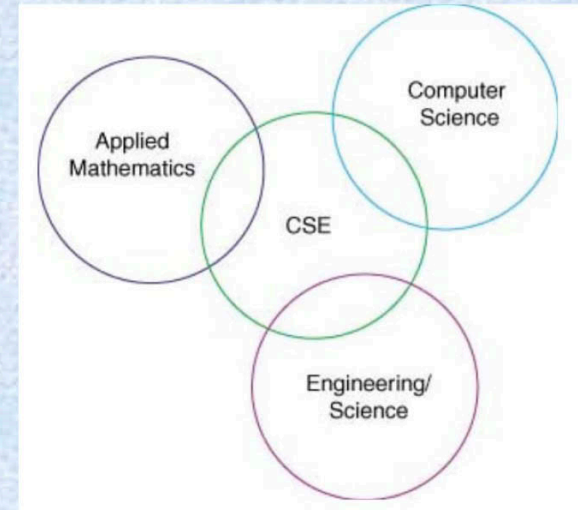
SIAM CSE Report - Do we need an update?

Graduate Education for Computational Science and Engineering

SIAM Working Group on CSE Education

1. Introduction

Computation is now regarded as an equal and indispensable partner, along with theory and experiment, in the advance of scientific knowledge and engineering practice. Numerical simulation enables the study of complex systems and natural phenomena that would be too expensive or dangerous, or even impossible, to study by direct experimentation. The quest for ever higher levels of detail and realism in such simulations requires enormous computational capacity, and has provided the impetus for dramatic breakthroughs in computer algorithms and architectures. Due to these advances, computational scientists and engineers can now solve large-scale problems that were once thought intractable.



- The *Petzold Report* has been guiding us for more than a decade
- It is time for an update!
- Define CS&E as an emerging discipline
- Grow a CS&E Eco-system for
 - Education
 - Research
 - Funding
 - ...
- Need work group to revise and extend the report!



Update of CSE Report

One report with three areas of focus

- Education and Academics
 - Hans de Sterck?
 - ...
- Research and Funding
 - Lois Curfman McInnes?
 - ...
- Industry
 - Kirk Jordan?
 - ...

**Review Meeting (1st draft) at
SIAM Parallel Processing in 2014?**



SIAG/CSE FUTURE PLANS

- Possible Other Activities?
- Other Business?

SIAG/CSE CONTACTS



Thank you for coming!

Chair:	Uli Ruede ruede@cs.fau.de
Vice Chair:	Karen Willcox kwillcox@mit.edu
Program Director:	Lois Curfman McInnes curfman@mcs.anl.gov
Secretary:	Hans De Sterck hdesterck@uwaterloo.ca

Join SIAM!

- If you paid non-member registration fees, you'll get a discount on membership,
 - Non-member registrant, receive \$130 credit, join for \$9.
 - Non-member mini speaker/organizer registrant, receive \$65 credit, join for \$74.
- If you're not a SIAG/CSE member, but are a SIAM member, join SIAG/CSE for free.
- SIAM and SIAG memberships are a good way to be seen/remembered.

Benefits of SIAM Membership

- *SIAM News*
- *SIAM Review*
- 80%-95% journal discount
- 30% book discount
- 20%-30% conference discount
- Eligible to nominate or be nominated as a SIAM Fellow
- Participate in SIAM governance
- Join SIAM Activity Groups
- Nominate 2 students for free membership
- CML - combined membership directory

For Students:

- Student chapters
- Prizes
- Educational resources
- Fellowship and research opportunities
- Career options/guidance