
**SIAG/SC
BUSINESS MEETING**

Wednesday, February 24, 2010
8:30-9:00pm





NEW SIAG/SC OFFICERS

1/1/2010 - 12/31/11

Chair:

Cindy Phillips

Vice Chair:

Boyana Norris

Program Director:

David Bader

Secretary:

Rich Vuduc



THANKS TO OUTGOING SIAG/SC OFFICERS

Mike Heroux, Chair

Paul Hovland, Vice Chair

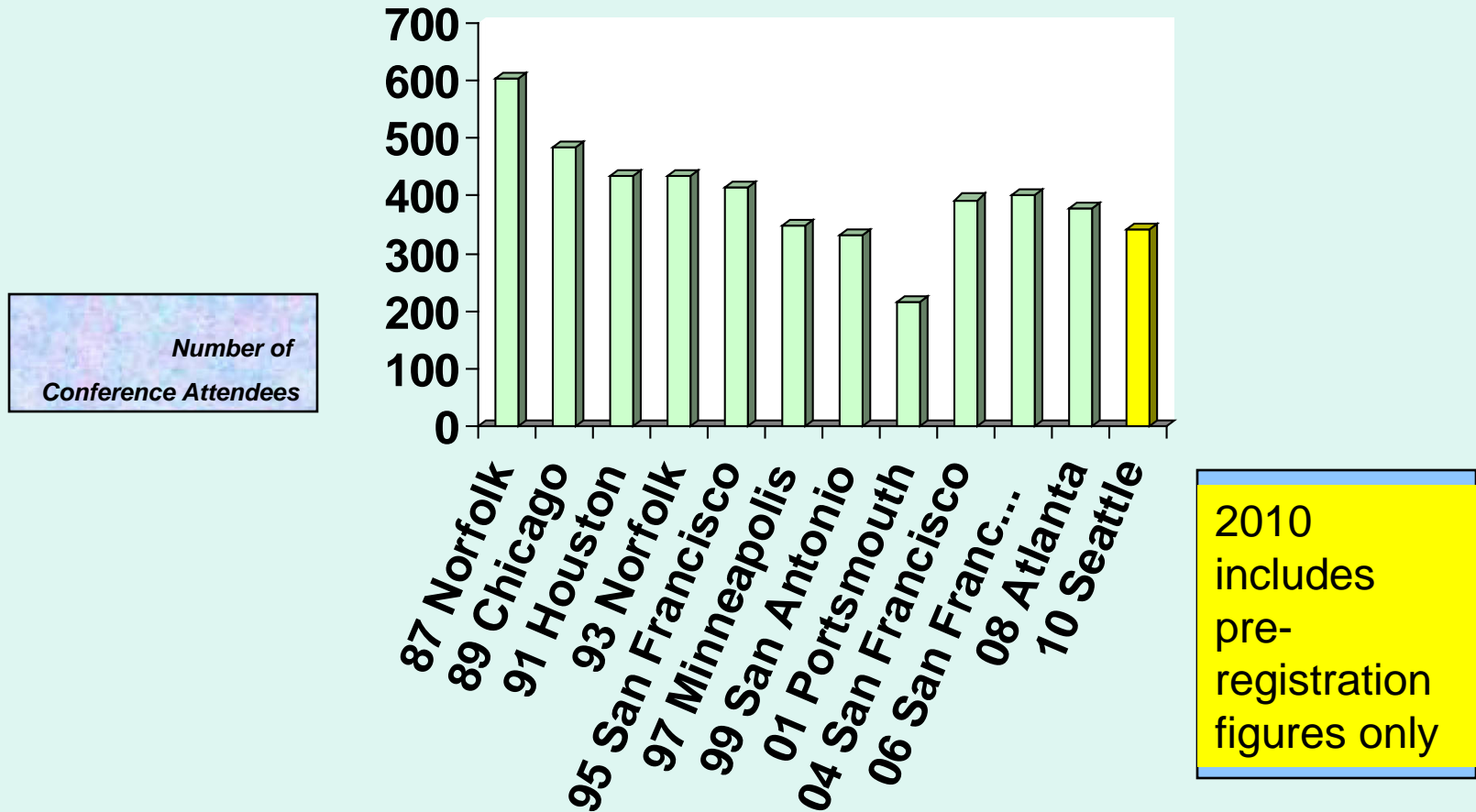
Cindy Phillips, Program Director

Ali Pinar, Secretary

ANNOUNCEMENTS

- SIAG Charter renewed through 2011
- SIAG/SC website
www.siam.org/activity/supercomputing
- SIAG/SC electronic mail list
siagsc@mailers.siam.org
- *SIAM News*: Story ideas

SIAG/SC CONFERENCE HISTORY



SIAG/SC CONFERENCE

- **SIAM Conference on Parallel Processing and Scientific Computing (PP10)**
- **Co-Chairs**
Rob Bisseling, Utrecht University, Netherlands
John Lewis, Cray Inc.
Cynthia A. Phillips, Sandia National Laboratories

There is still room in the Tutorial

- Saturday, Feb 27, 9:00am-1:00pm
- An Introduction to GPU Programming
- Mike Giles (Oxford University), organizer/presenter

SIAG/SC PRIZES

- Junior Scientist Prize
 - Established in 2009, is awarded to an outstanding junior researcher in the field of algorithms research and development for parallel scientific and engineering computing, for distinguished contributions to the field in the three calendar years prior to the year of the award. (Explicit rules for being junior).
- Career Prize
 - Established in 2009, awarded to an outstanding senior researcher who has made broad and distinguished contributions to the field of algorithms research and development for parallel scientific and engineering computing
- Lectures Thursday, February 25
 - Jack Dongarra 3:40-4:10
 - Kamesh Madurri 4:10-4:25

OTHER CONFERENCES

- ICIAM July 18-22, 2011
Vancouver, British Columbia, Canada

SIAM Journal on Scientific Computing (SISC)

- Ulrich Rüde (editor in chief)
- Mike Heroux is now an associate editor



SIAM Journal on Imaging Sciences (SIIMS)



Guillermo Sapiro, *Editor-in-Chief*
Electronic only, continuous publication

[ACCEPTING SUBMISSIONS!](#)

Join SIAM!

- If you paid non-member registration fees, all credited
 - Join for \$20 if non-member registrant
- If you're not a SIAG/SC member, but are a SIAM member, join SIAG/SC 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
- 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
- Fellowships and research opportunities
- Career options/guidance

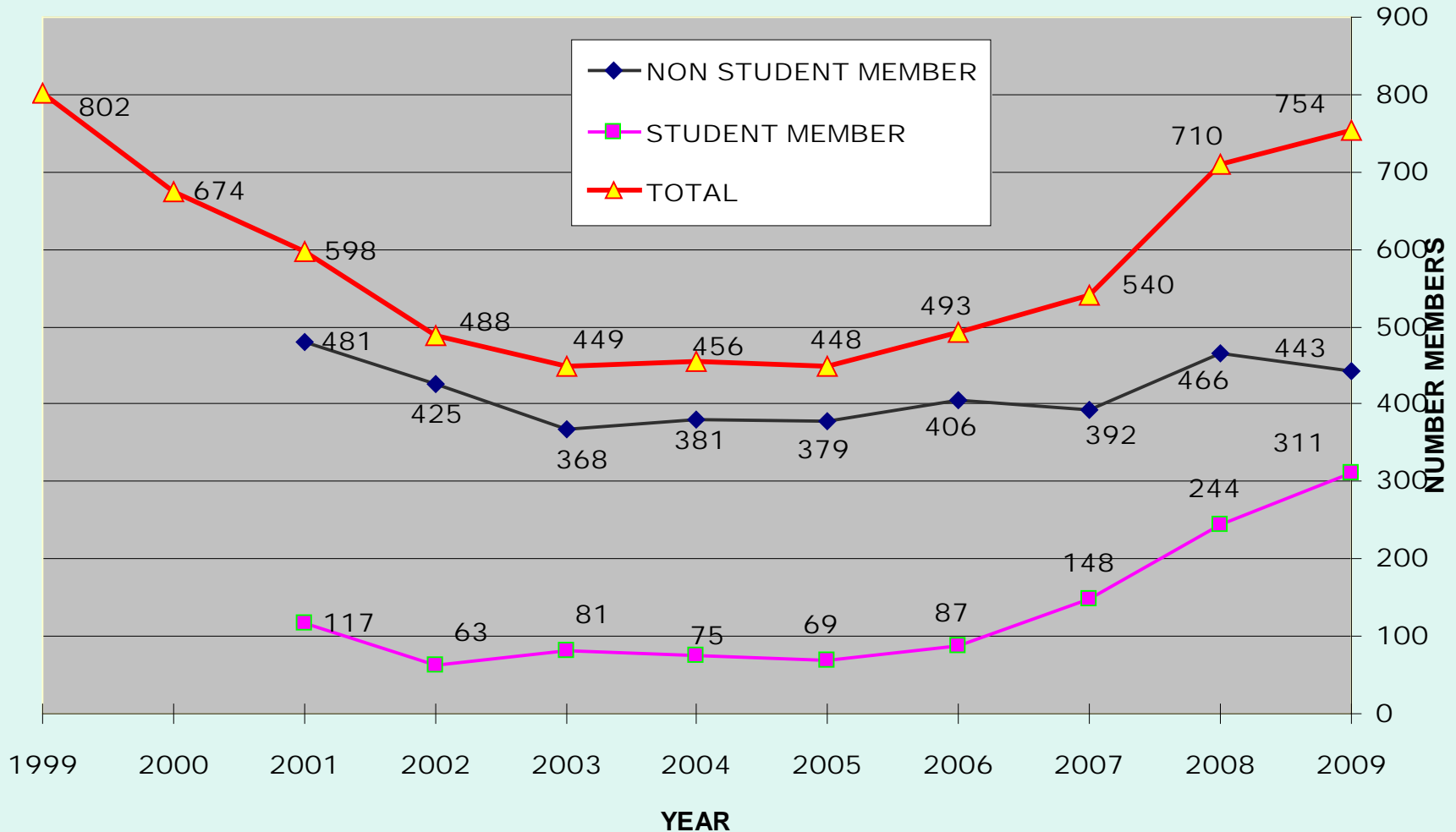
SIAG/SC
MEMBERSHIP
REPORT
(as of 12/31/09)

SIAM Conference on

**Parallel Processing &
Scientific Computing**

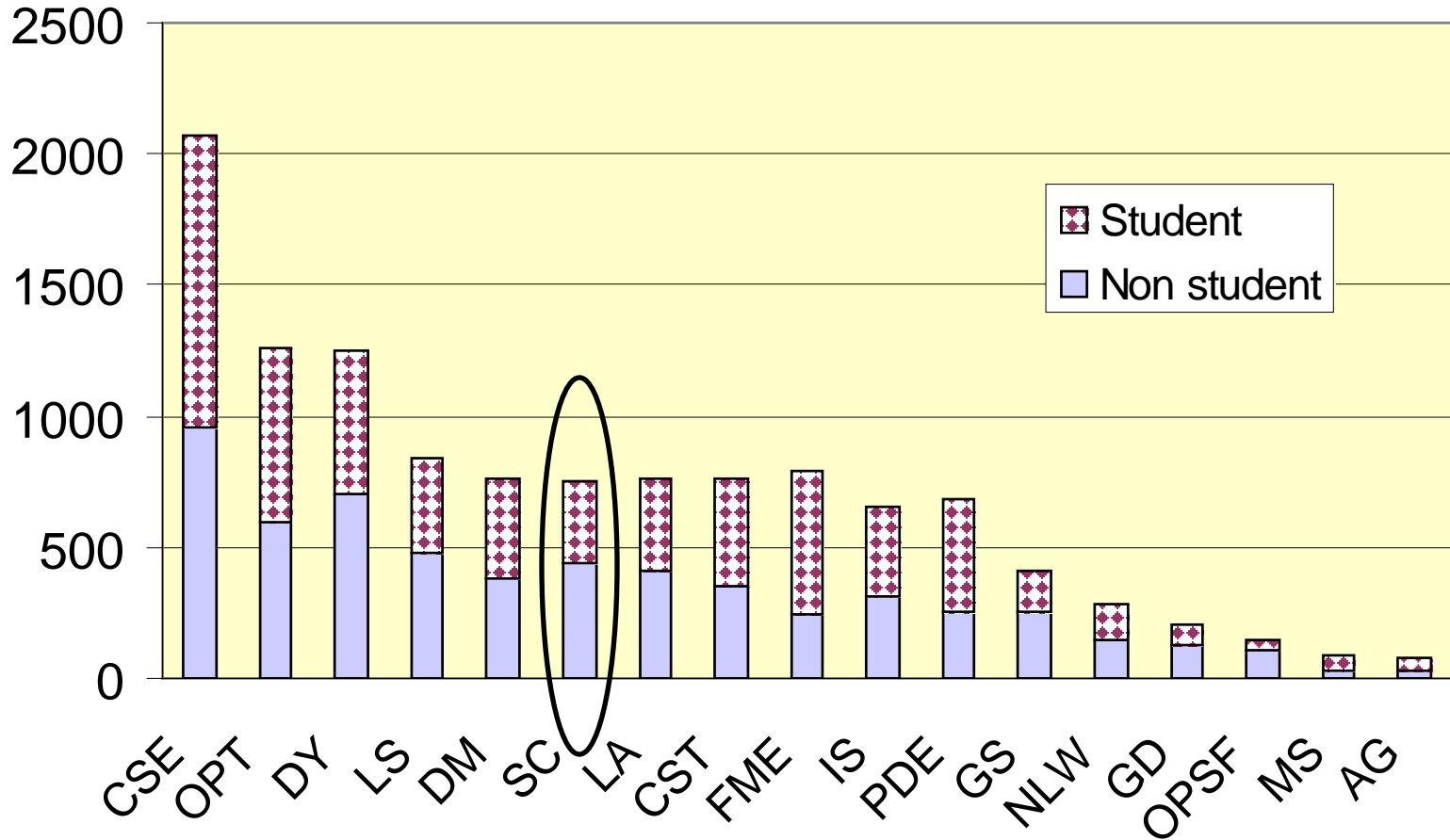
*Grand Hyatt Seattle • Seattle, Washington
February 24-26, 2010*

SIAG/SC Membership History



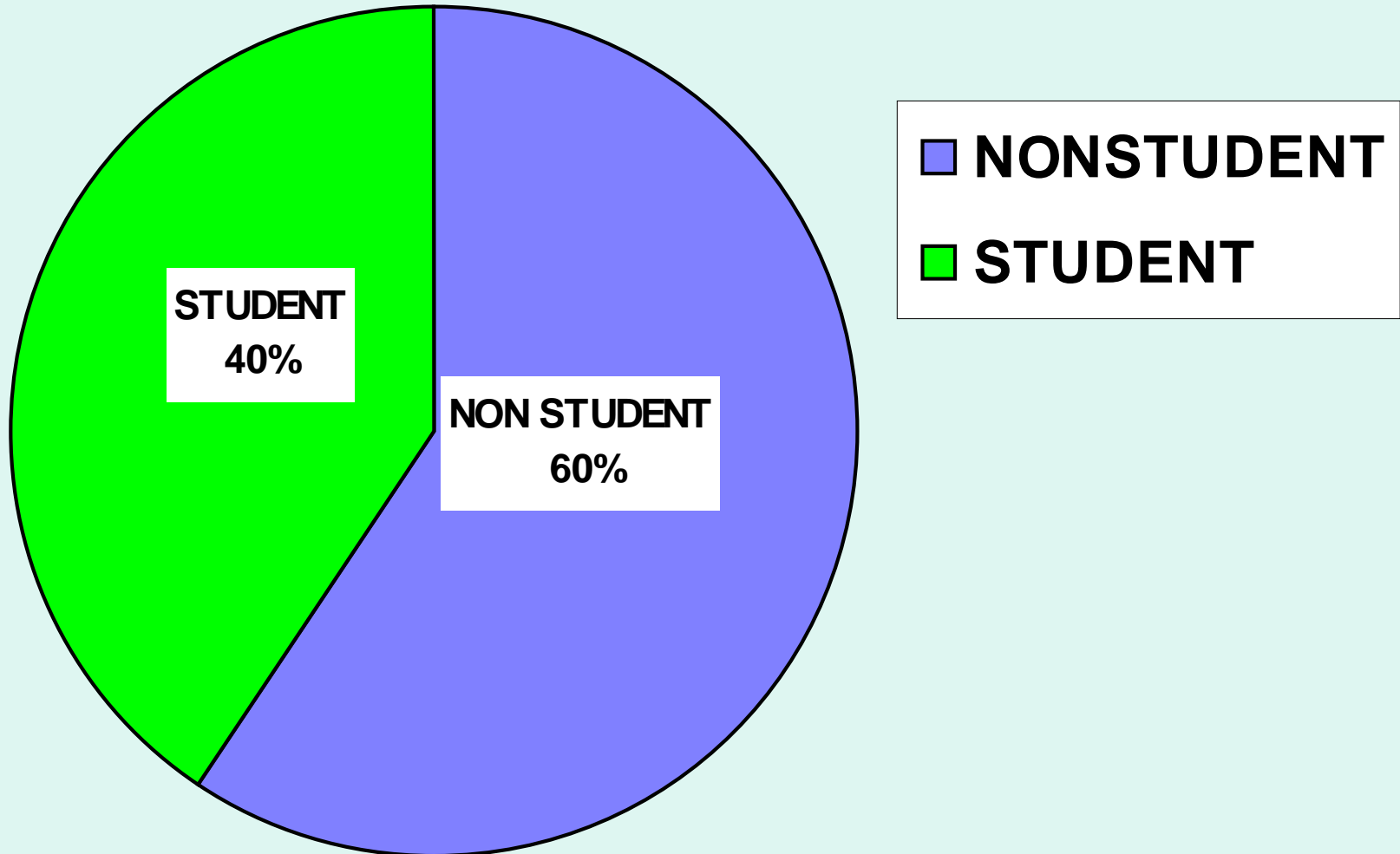
ACTIVITY GROUP MEMBERSHIP (12/31/09)

46% non-students and 66% students belong to a SIAG



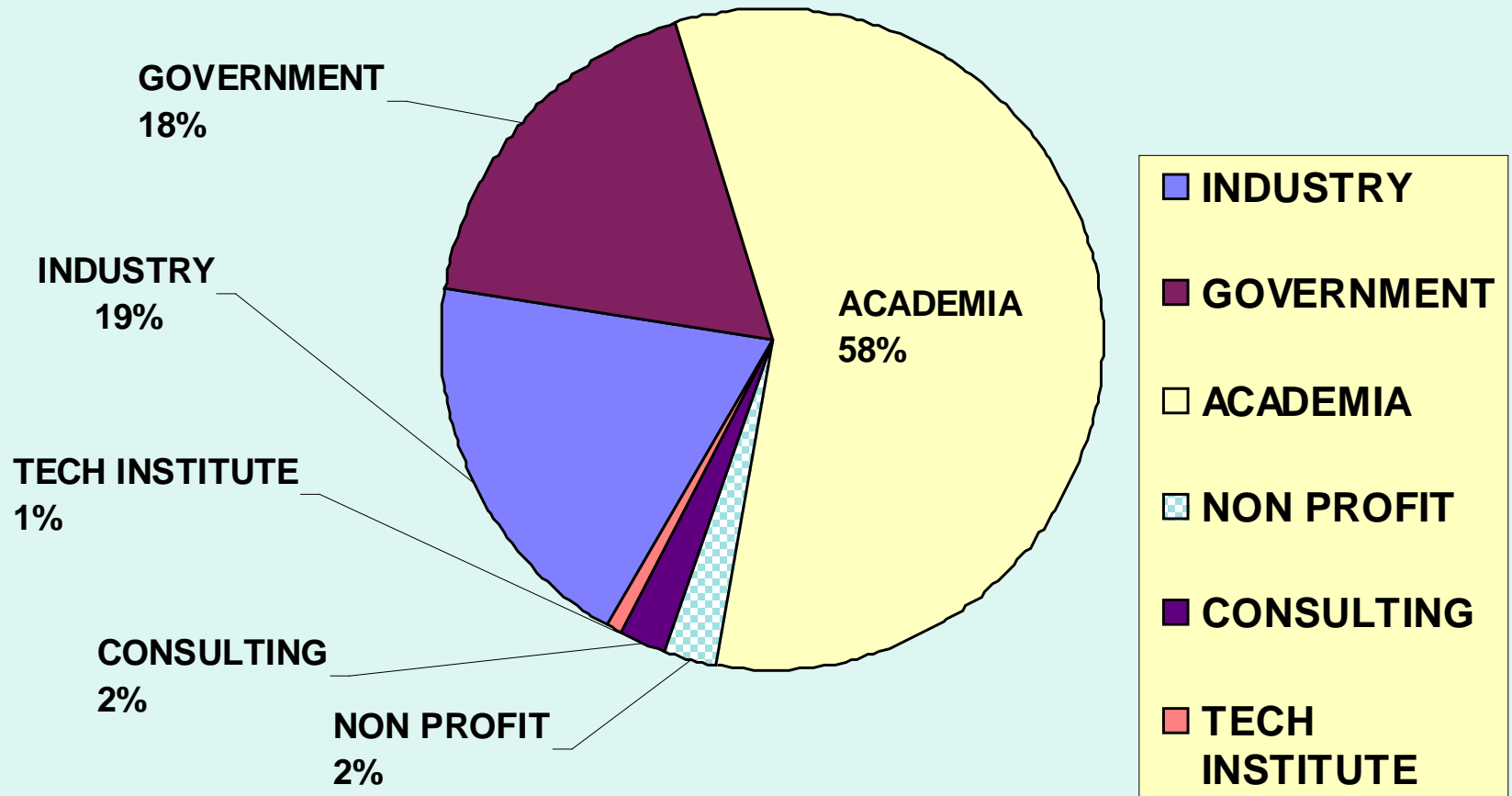
SIAG/SC MEMBERS

754 as of 12/31/09



SIAG/SC MEMBERS BY EMPLOYER TYPE

not including students





SIAG/SC MEMBERS BY GEOGRAPHY

77% US, 23% Outside US

SIAG/SC MEMBERSHIP BY GENDER

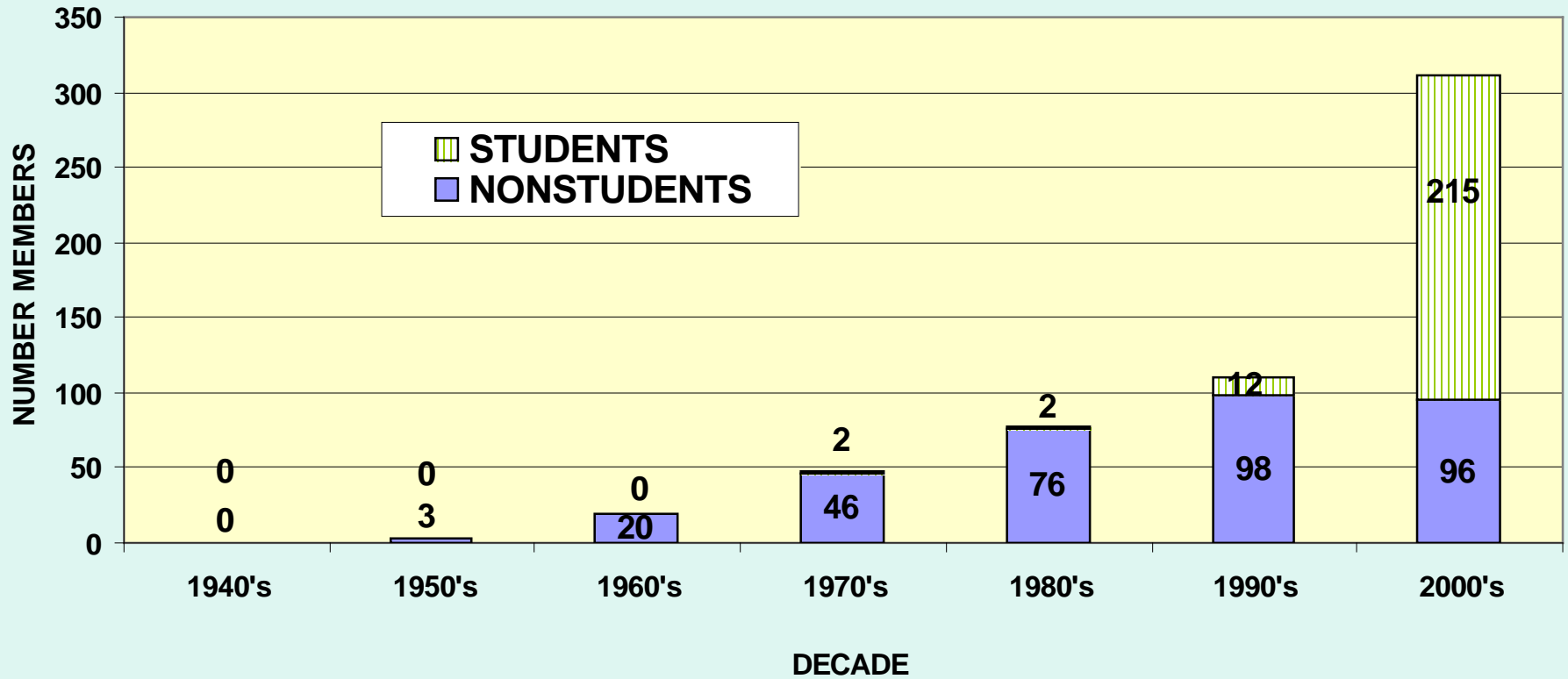
MALE 89% FEMALE 11%

46

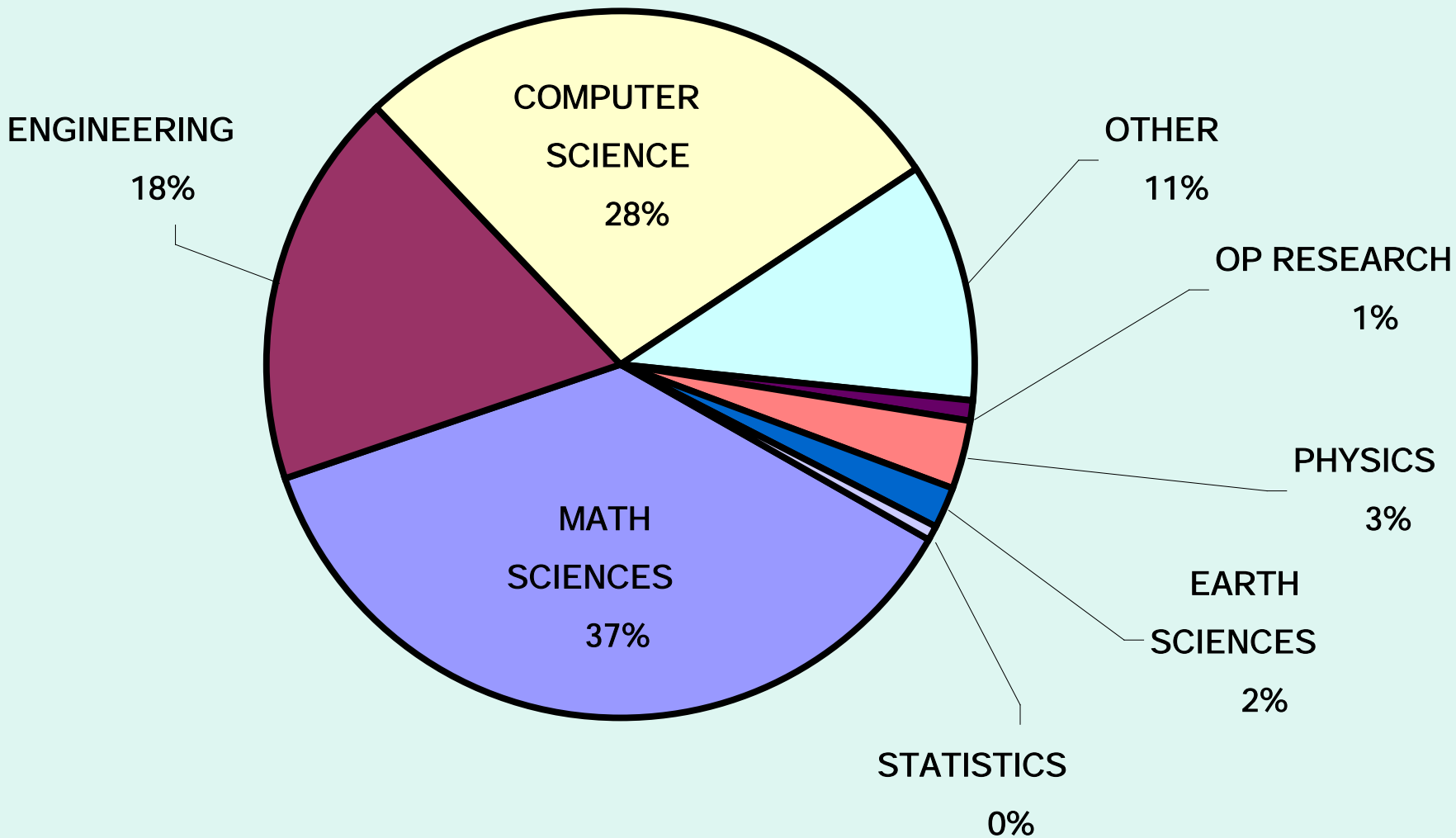
5

37

SIAG/SC HIGHEST DEGREE EARNED



SIAG/SC DEPARTMENTS



NEXT CONFERENCE: PP12

- Location
 - Savannah, GA USA
 - Santa Fe, NM USA
 - New York, NY USA
- Timing/Format
 - 4 days?
 - Lower session parallelism
 - Conference outing
 - Have poster session during the day



SIAG/SC FUTURE PLANS

- Possible Other Activities?
- Other Business?

Scheduling PP10

- Used Integer programming
 - Minimizing linear objective subject to linear and integrality constraints
- Objective: Minimize total pairwise similarity of sessions scheduled simultaneously
- Constraints
 - Individuals are never supposed to be in two places at once
 - Speaking, organizing, students
 - Day requests
 - 5-talk sessions at end of day
 - Multipart on same day if possible, and sequenced
 - Session parallelism limits

Computing Similarity From MS abstracts

- Method 1 (Brett Bader)
 - Vector-space model (column = document, row = terms, matrix entry = frequency)
 - Log-entropy scaling (to bring out important terms)
 - Normalized to unit length
 - Cosine similarities for each pair of columns
- Method 2 (Dave Robinson)
 - Latent Dirichlet Analysis (LDA)
 - “Bag of words”, but context considered
 - Documents = probabilistic mix of topics; topics = probabilistic mixture of words
 - LDA finds documents with similar (inferred) topics
 - Kullback-Leiber similarity measure (better ones for future)

SIAG/SC CONTACTS



Chair: **Cynthia A. Phillips (*caphill@sandia.gov*)**

Vice Chair: **Boyana Norris (*norris@mcs.anl.gov*)**

Program David Bader
Director:

Secretary: **Richard (Rich) Vuduc (*richie@cc.gatech.edu*)**