

#SIAMCSE19

2019 SIAG/CSE BUSINESS MEETING

2019 SIAG/CSE

Computational Science and Engineering

Business Meeting

Thanks to Tim Fest, Jim Crowley, and Richard Moore, SIAM, for stats, info and slides!

Wednesday, February 27, 2019

7:00pm-8:00 pm

Ballroom 100 BC

Spokane Convention Center

SIAG/CSE Officers 2019-2020

Chair:

Karen Devine

*

Vice Chair:

Suzanne Shontz

*

Program Director:

Stefan Wild

*

Secretary:

Judith Hill

SIAG/CSE Thank you to the 2017/18 Officers

Chair:

Hans De Sterck

*

Vice Chair:

Lorena Barba

*

Program Director:

Suzanne Shontz

*

Secretary:

Karen Devine

SIAG/CSE Thank you to 2019 Conference Committee

Conference Co-chairs

Jeffrey Hittinger, Lawrence Livermore National Laboratory, USA

Luke Olson, University of Illinois at Urbana-Champaign, USA

Suzanne Shontz, University of Kansas, USA

Organizing*Committee

Katherine J. Evans, Oak Ridge National Laboratory, USA

Hans Johansen, Lawrence Berkeley National Laboratory, USA

Matthew G. Knepley, University at Buffalo, USA

Tamara G. Kolda, Sandia National Laboratories, USA

Alison Marsden, Stanford University, USA

Marie E. Rognes, Simula Research Laboratory, Norway

Robert Scheichl, University of Heidelberg, Germany

Andrea Walther, Paderborn University, Germany

Stefan Wild, Argonne National Laboratory, USA

Rebecca Willett, University of Chicago, USA

Rio Yokota, Tokyo Institute of Technology, Japan

SIAG/CSE Congratulations to SIAM Fellows

Class of 2017

Zhaojun Bai

Peter Benner

Lois McInnes

Michael Kwok-Po Ng

Carol Woodward

Class of 2018

Todd Arbogast

Liliana Borcea

Margot Gerritsen

Madhav Marathe

Alison Marsden

Helen Moore

Pablo Parrilo

Alex Pothén

John Shadid

Ralph Smith

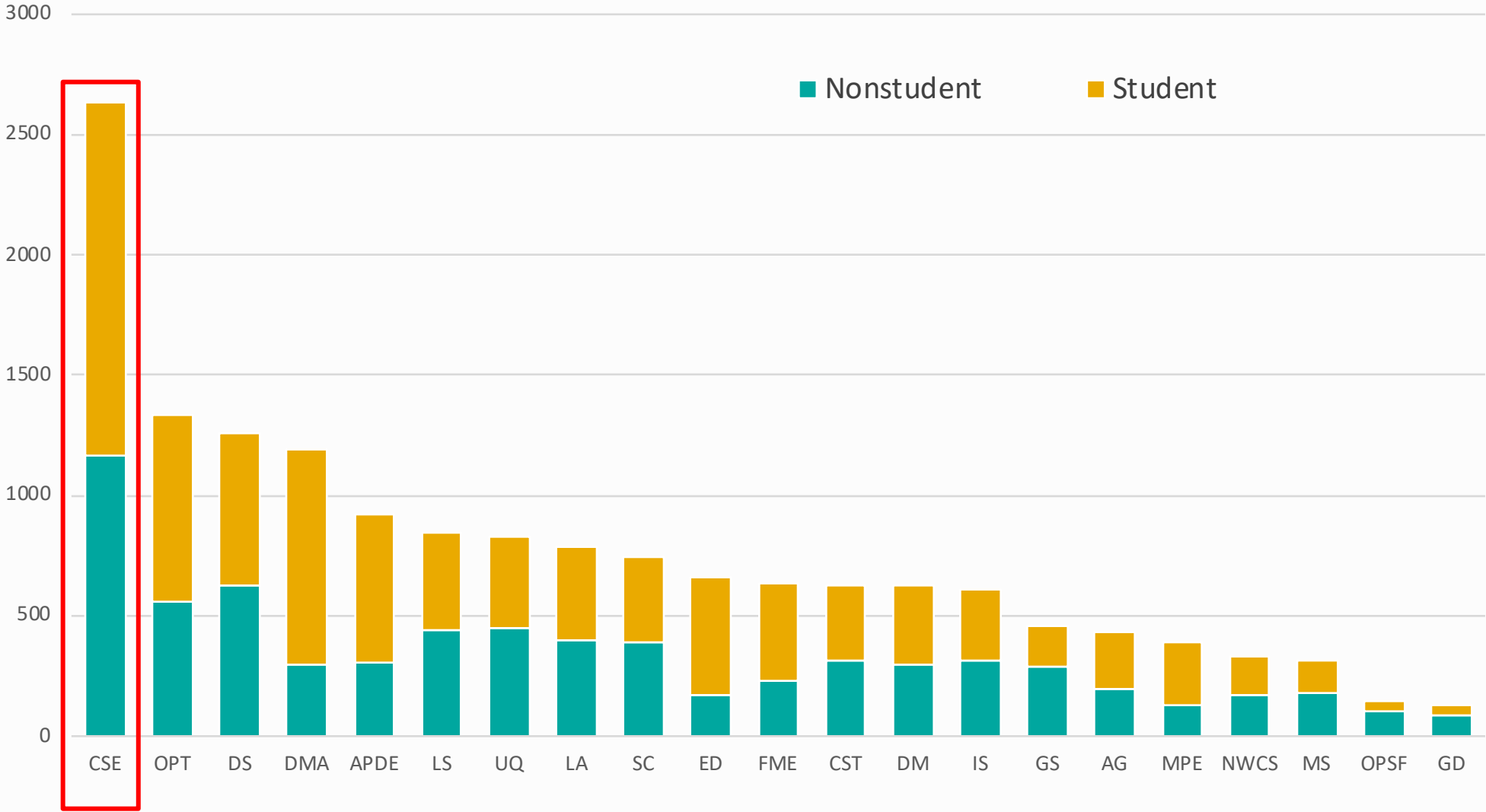
Tamas Terlaky

Panayot Vassilevski

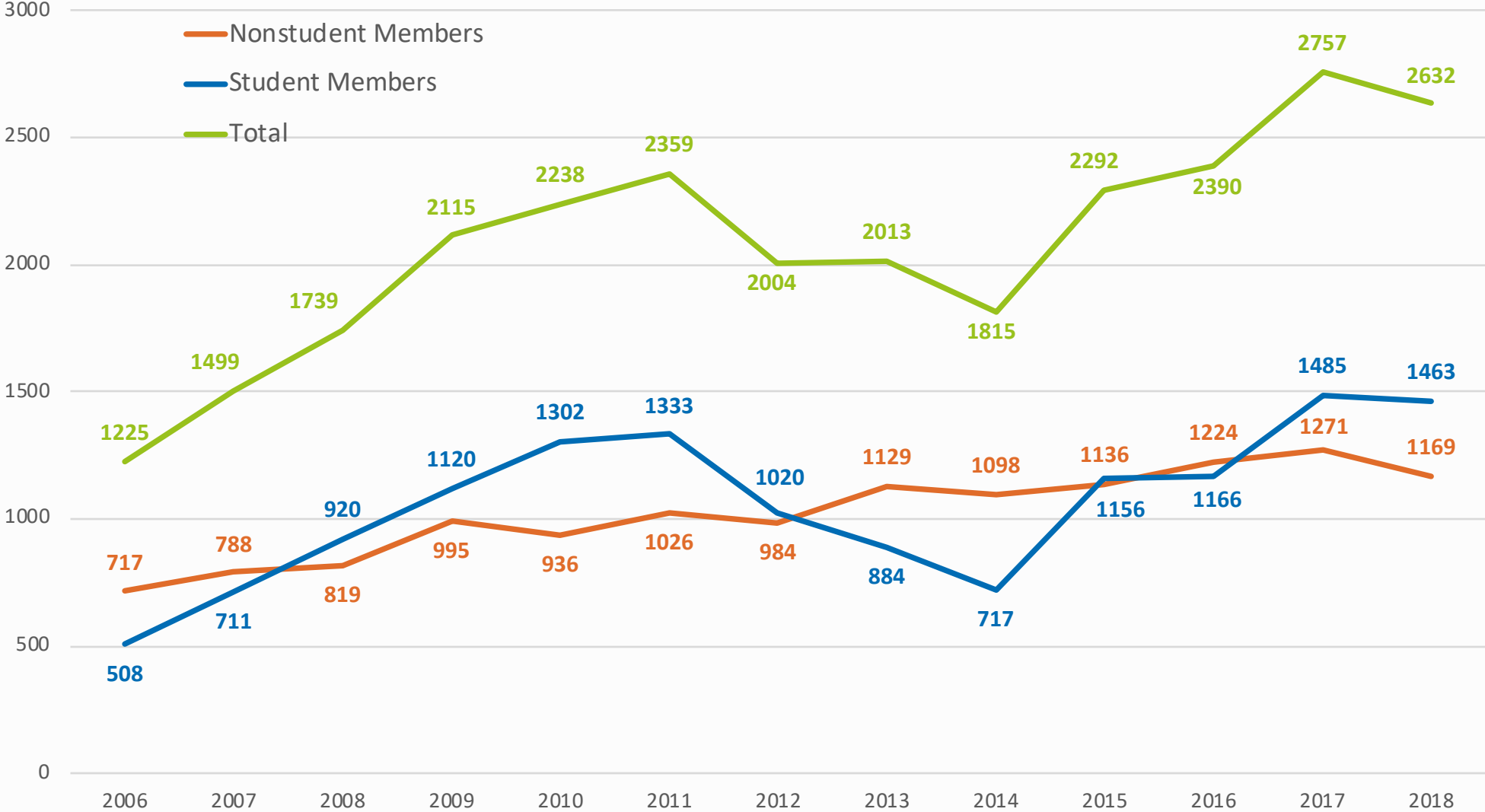
Homer Walker

Karen Willcox

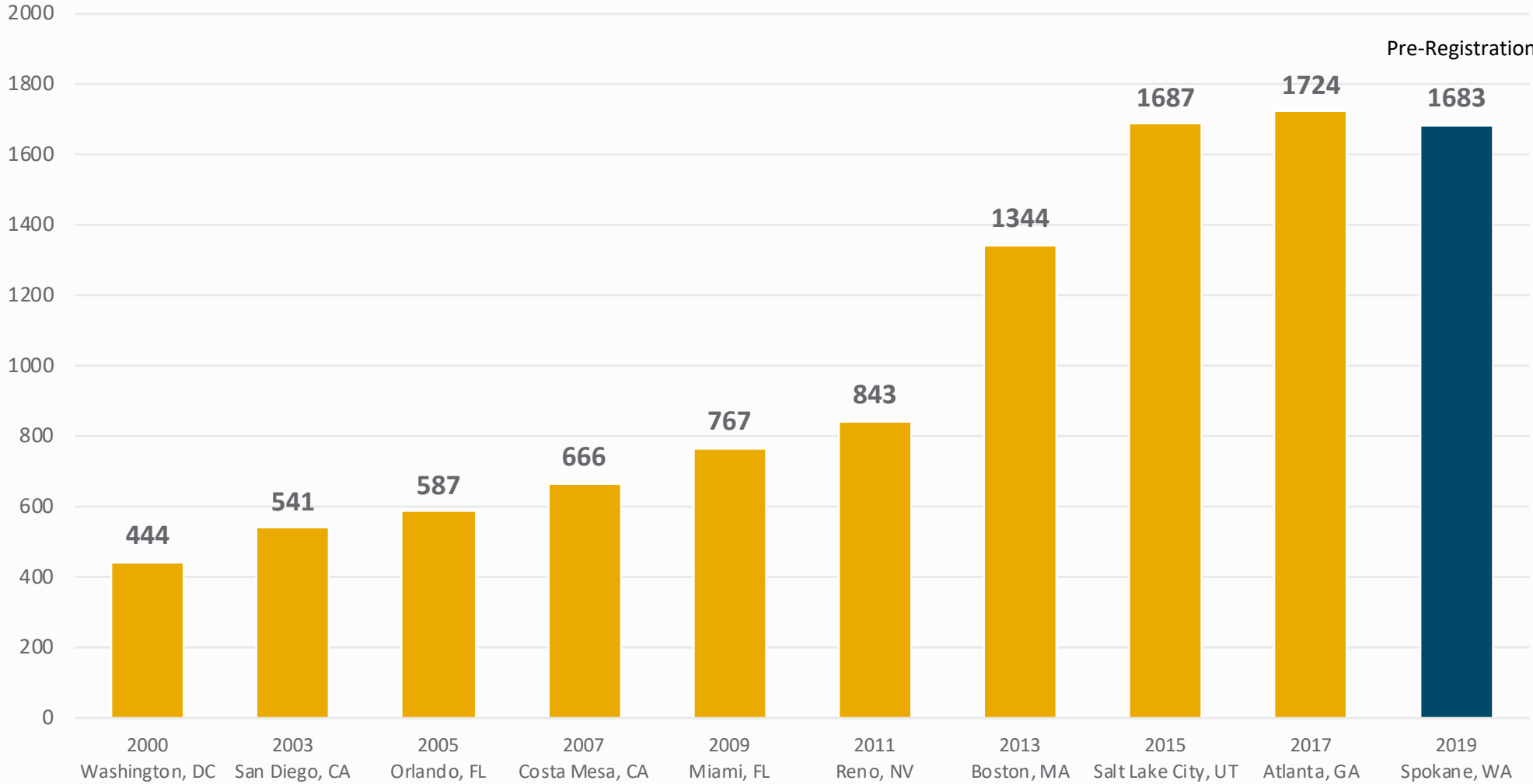
SIAG Overall Membership



SIAG/CSE Membership Demographics



SIAG/CSE Conference History



SIAG/CSE Conference 2019

SIAM/ACM Prize in Computational Science and Engineering

The Singular Value Decomposition: Anatomy of an Algorithm, Optimizing for Performance

Jack Dongarra, University of Tennessee, Knoxville, U.S.

James H. Wilkinson Prize for Numerical Software

Solving the Two Language Problem in Scientific Computing and Machine Learning with Julia

Jeffrey Bezanson, **Stefan Karpinski**, and **Viral Shah**, Julia Computing, Inc., U.S.

SIAG/CSE Early Career Prize

Data-Driven Discovery and Control of Complex Systems: Uncovering Interpretable and Generalizable Nonlinear Models

Steven Brunton, University of Washington, U.S.

SIAG/CSE Conference 2019

Inaugural SIAG/CSE Best Paper Prize

“Scalable and efficient algorithms for the propagation of uncertainty from data through inference to prediction for large-scale problems, with application to flow of the Antarctic ice sheet”

Tobin Isaac, Georgia Institute of Technology, U.S., **Noémi Petra**, University of California, Merced, U.S., **Georg Stadler**, Courant Institute - New York University, U.S., and **Omar Ghattas**, University of Texas at Austin, U.S.

The SIAM Activity Group on Computational Science and Engineering Best Paper Prize (SIAG/CSE Best Paper Prize) is awarded every two years to the author(s) of the best paper, as determined by the prize committee, on the development and use of mathematical and computational tools and methods for solving problems that may arise in broad areas of science, engineering, technology, and society. The prize recognizes a paper that makes an outstanding and potentially long-lasting contribution to the field. The selection criteria emphasize multidisciplinary work opening up new areas of research, and potential broad impact, in addition to novelty, creativity, and overall scientific advancement and quality.

SIAG/CSE Thank you to prize selection committee members

Ann Almgren

Martin Berzins

Geoffrey Fox

Sven Hammarling

Peter Jimack

Randall LeVeque

Linda Petzold

Christine Shoemaker

Katherine Yelick

Michael Bader

Kathryn Brenan

Laura Grigori

Michael Heroux

David Keyes

Jorge Moré

Olaf Schenk

Ralph Smith

SIAG/CSE Communication

- SIAG/CSE electronic mailing list: siag-cse@siam.org
- SIAG/CSE websites:
 - <https://www.siam.org/membership/Activity-Groups/detail/computational-science-and-engineering>
 - http://wiki.siam.org/siag-cse/index.php/Main_Page
- SIAM Blogs
- **SIAM News: Story Ideas**
 - **Thank you to past CSE liaison to SIAM News: Paul Constantine**
 - **Volunteer needed!**

ICIAM 2019



The Congress will take place at the ‘Campus de Blasco Ibáñez’ of the Universitat de València.

SIAM is a member of the International Council for Industrial and Applied Mathematics (ICIAM)

ICIAM 2019 is being organized by SeMA (Sociedad Española de Matemática Aplicada), member of ICIAM.

***Special SIAG CSE track organized by Suzanne Shontz:
21 minisymposia on CSE***

SIAM Annual Meeting

2019

- No Annual Meeting in 2019
- Supporting 9th International Congress on Industrial and Applied Mathematics (ICIAM 2019)

2020

- Annual Meeting 2020 held jointly with The Annual Meeting of The Canadian Applied and Industrial Mathematics Society (CAIMS)
- July 6th-July 10th, 2020
- Toronto, Ontario, Canada
- Call for participation September 2019
- ***Stefan Wild and Hans de Sterck are organizing a CSE track; prospective minisymposium organizers should contact Hans and Stefan.***

Gene Golub SIAM Summer School

2019 High Performance Data Analytics

June 17th-28th, 2019

Paul Langevin CNRS Conference Center in Aussois, France

2020 Anticipated date between May - August 2020

For questions or informal inquiries, please contact the G2S3 committee chair, Thomas Witelski,
witelski@math.duke.edu

2021 Anticipated deadline for submission of Letter of Intent January 31st, 2020

Join SIAM Today!

Benefits of SIAM Membership Include.....

- SIAM Review (Print & Electronic)
- SIAM News (Print)
- 30% Off SIAM Books
- \$15 / Activity Group Membership
- 20% - 30% Off Registrations
- 80% Off Journals (up to 4)
- 95% Off e-Access to Journals
- Spouse may join as Associate Member
- SIAM Unwrapped
- Vote in SIAM Elections
- Eligible to Hold Office
- Eligible for Committee Appointments
- Nominate SIAM Fellows
- Be Nominated as a SIAM Fellow
- Nominate 2 Students for Free Membership
- Eligible for Group Insurance

Future CSE Conferences

SIAM CSE 2021

Program director: Stefan Wild

Location / dates: TBD

Central / Eastern US hub city
requested

SIAM CSE 2023

Interested in location outside North
America

Need partner in host location

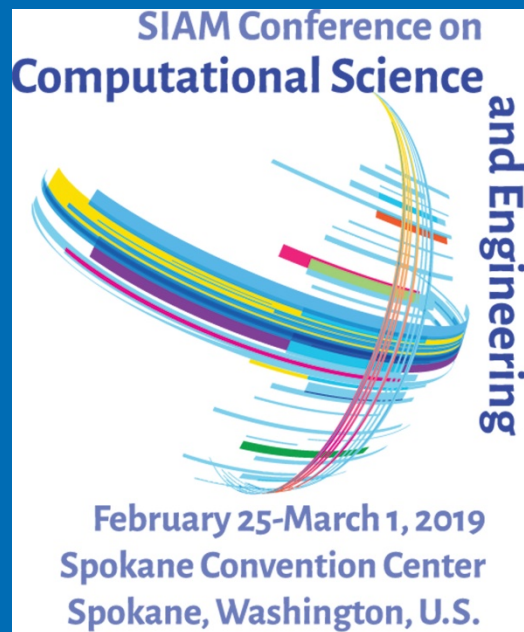
SIAG meetings outside of the USA

- **Option 1 – SIAM handles the financial responsibility and manages the meeting**
 - “Destination” company handles local logistics, taxes, regulation compliance, etc.
 - Registration fees will be higher to cover expenses
- **Option 2 – Local organization takes financial responsibility**
 - Conference run by local organizers / volunteers
 - Collect fee, sign contracts, pay invoices & taxes
 - Perhaps partner with local professional society
 - Use SIAM’s conference management system
 - Proposals submitted to SIAG Officers & SIAM:
 - Organizers, location, budget, logistics, etc.
 - ***For CSE23, would like notice of intent by July 2019, and proposal by October 2019***
 - ***Please talk with SIAG officers for more details!***

SIAM CSE21 Discussion

PROGRAM DIRECTOR: STEFAN WILD

Other Business



#SIAMCSE19

2019 SIAG/CSE BUSINESS MEETING

Contacts

Chair Karen Devine
kddevin@sandia.gov

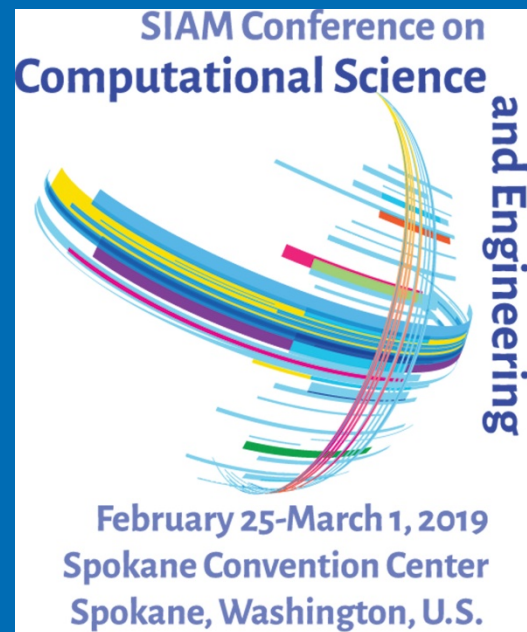
Vice Chair Suzanne Shontz
shontz@ku.edu

Program Director Stefan Wild
wild@anl.gov

Secretary Judith Hill
hilljc@ornl.gov

Help Wanted

- SIAG CSE Liaison to SIAM NEWS
- AN20 CSE track minisymposium organizers
- CSE23 host



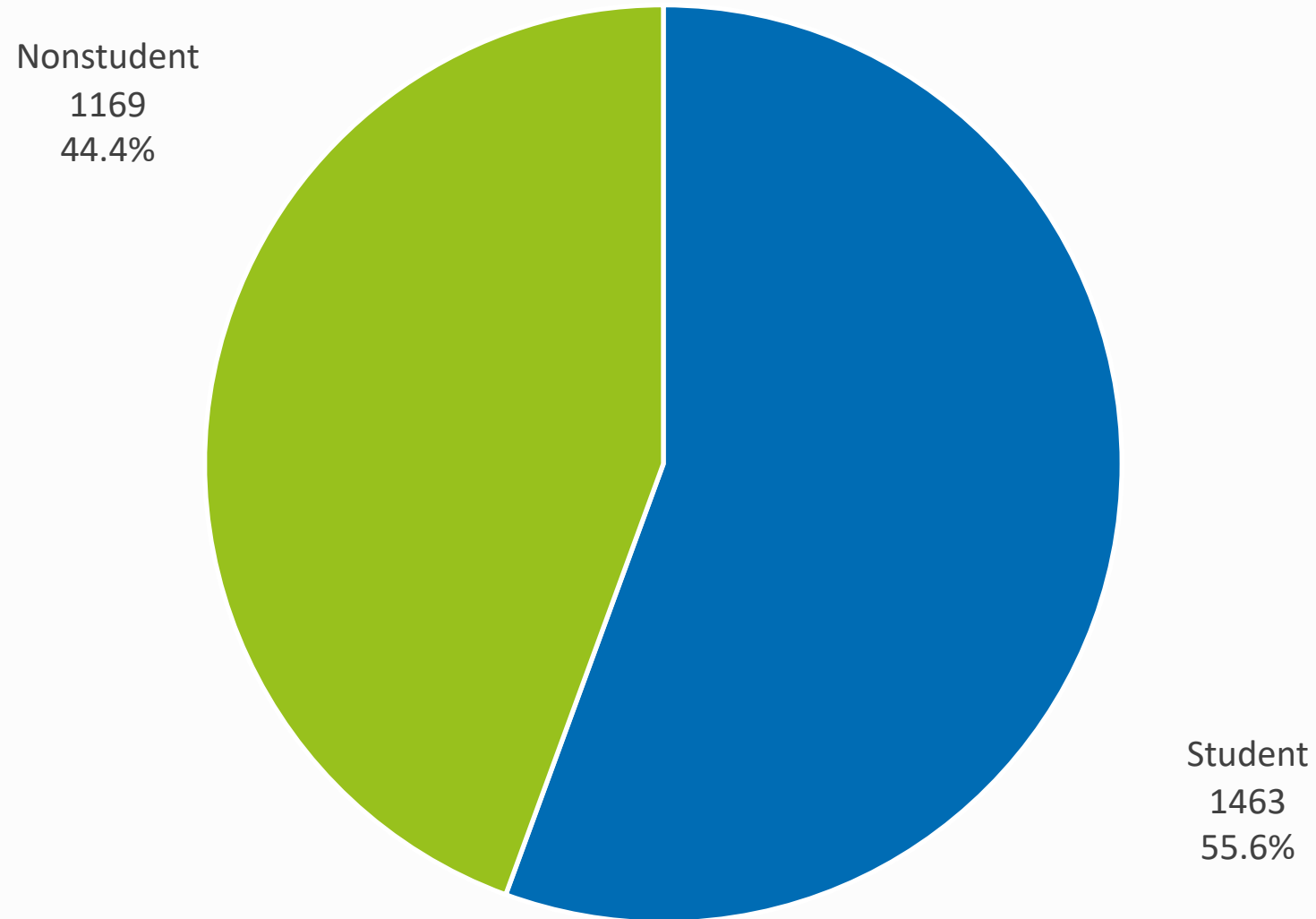
2019 SIAG/CSE

Membership Report

(data as of December 31, 2018)

2019 SIAG/CSE BUSINESS MEETING

SIAG/CSE Membership Demographics

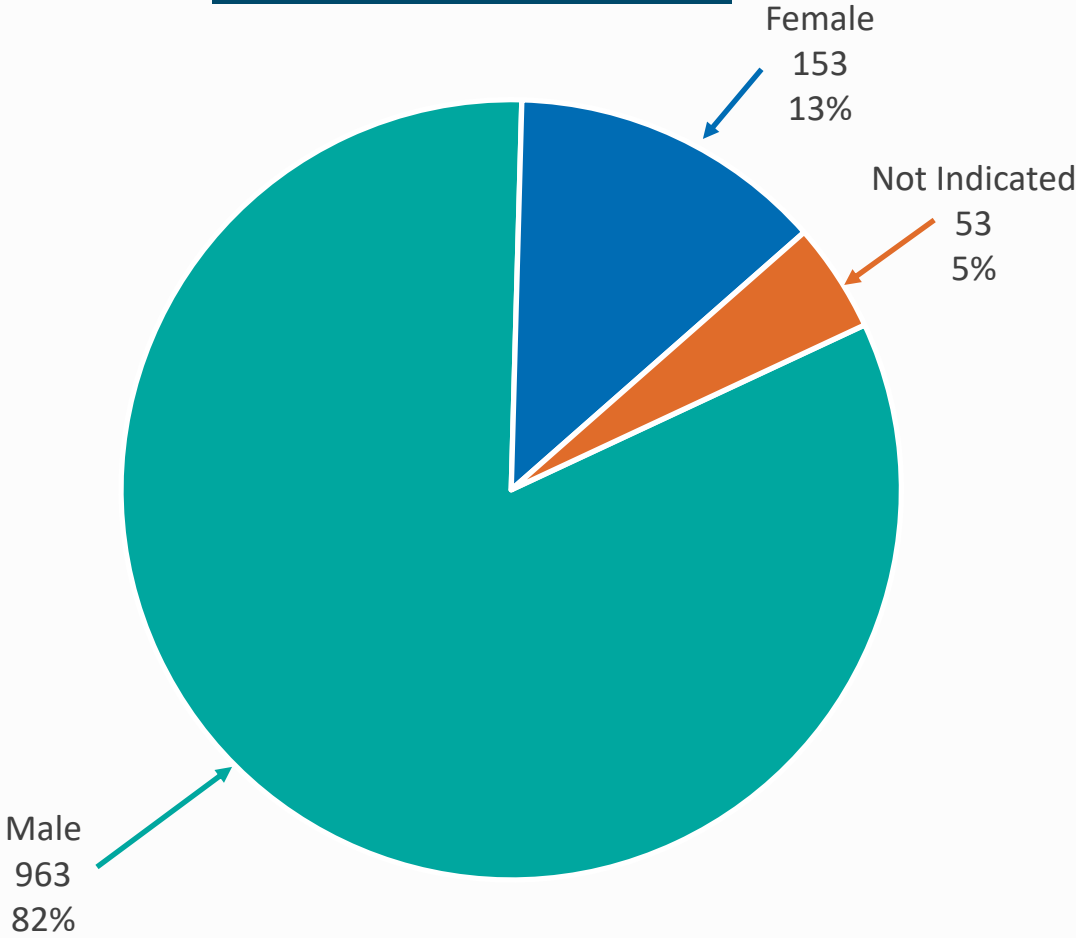


SIAG/CSE Membership by Geography

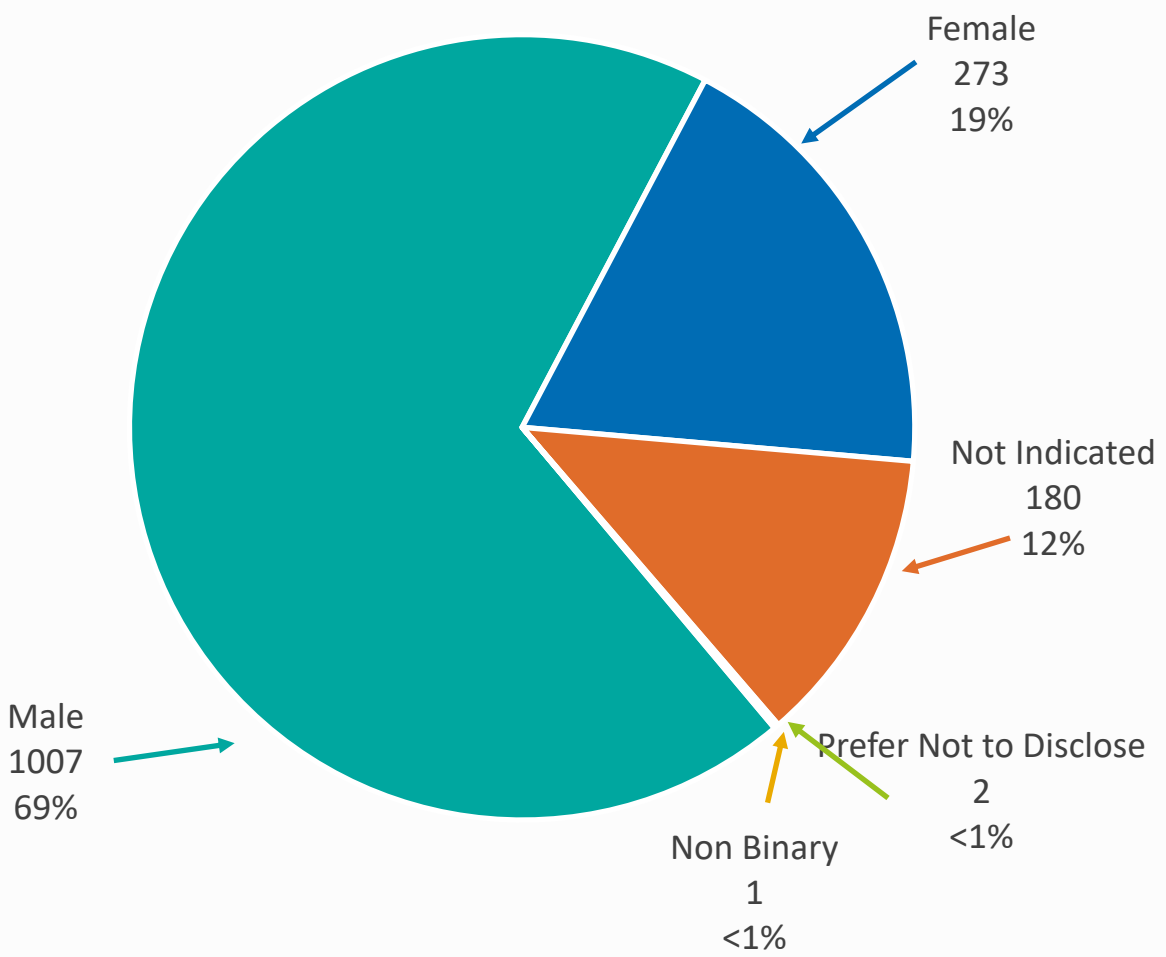
	Nonstudent		Student		Total	
Domestic	807	31%	1029	39%	1836	70%
Foreign	362	14%	434	16%	796	30%
Total	1169	44%	1463	56%	2632	

SIAG/CSE Membership by Gender

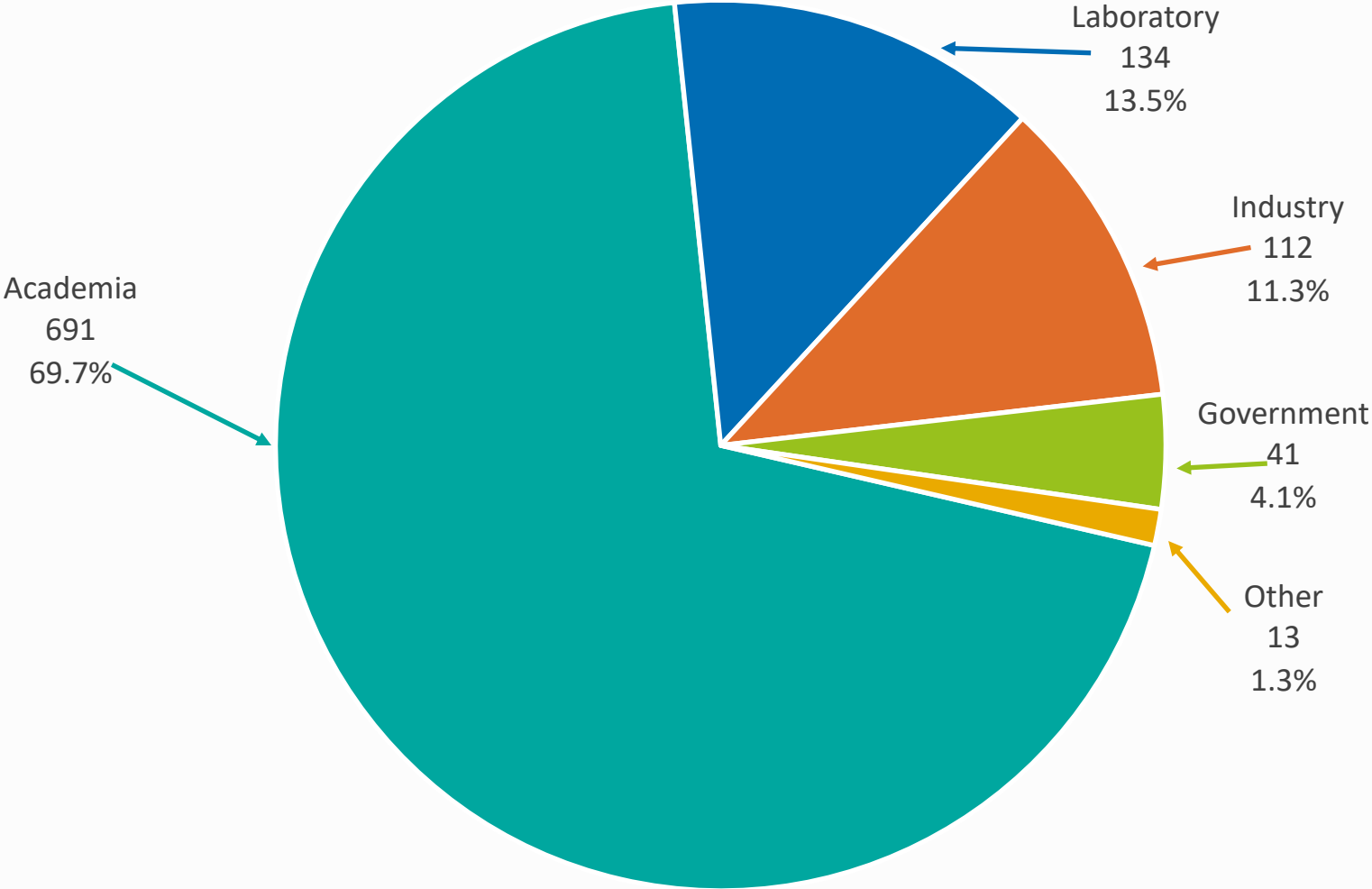
Nonstudents



Students



SIAG/CSE Membership by Employer Type



SIAG/CSE Membership by Department Type

