

# 2023 SIAG/LS

Activity Group on Life Sciences Business Meeting

Wednesday, July 12<sup>th</sup>, 12:00 PM EDT  
Virtual Meeting



2023 SIAG/LS BUSINESS MEETING

# 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
- Eligible for Group Insurance
- Nominate 2 Students for Free Membership
- Qualifying Student Members can join 2 SIAGs for *free!*

# SIAG/LS Thank you to all 2021-2022 Officers

## Chair:

Kresimir Josic

\*

## Vice Chair:

Dean Bottino

\*

## Program Director:

Nick Cogan

\*

## Secretary:

Alexandra Jilkine

## SIAM News Liaison:

Mary Ann Horn

# SIAG/LS 2023-2024 Officers

## Chair:

Frederick Adler

\*

## Vice Chair:

Helen Moore

\*

## Program Director:

Nessy Tania

\*

## Secretary:

Cheng Ly

## SIAM News Liaison:

Reginald McGee

# SIAG/LS Announcements

- SIAM Engage:
  - <https://engage.siam.org/communities/siag-ls-home?CommunityKey=48ce65e3-7173-43fa-8741-75341904b84e>
- SIAG/LS websites:
  - <https://www.siam.org/membership/activity-groups/detail/life-sciences>
- SIAM News: Story Ideas
- SIAM Blogs
- SIAG/LS Leadership Suggestion Form:
  - <https://www.siam.org/forms/siam-activity-group-leadership-form>

# SIAG/LS Fellows

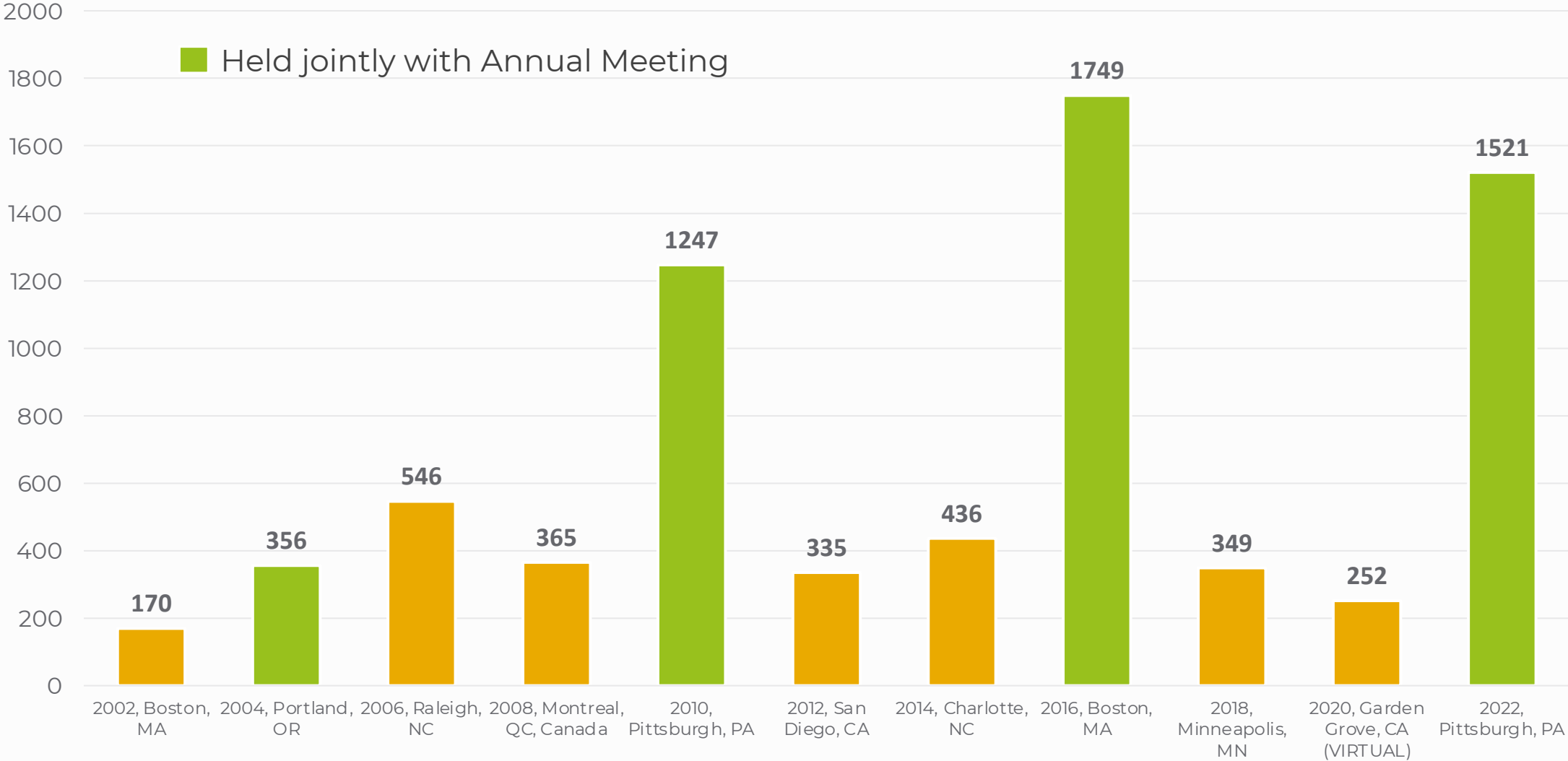
Class of 2022

Bonnie Berger

Class of 2023

Lenore Cowen

# SIAG/LS Conference History



# Upcoming conference

Location: Portland

Dates: June 10-13, 2024

## Themes:

- Biophysics across scales
- Disease dynamics and epidemiology
- Mathematical biology education
- Data driven modeling
- Neuroscience and behavior
- Mathematical physiology and systems pharmacology
- Ecology and evolution

## Co-chairs:

- Nick Cogan, Florida State University, USA
- Nesity Tania, Pfizer, USA

## Organizing Committee:

- Vianey Leos Barajas, University of Toronto, Canada
- Abba Gumel, University of Maryland, College Park, USA
- Christoph Hauert, University of British Columbia, Canada
- Yi Jiang, Georgia State University, USA
- Jae Kyoung Kim, Korea Advanced Institute of Science and Technology, South Korea
- Brynja Kohler, Utah State University, USA
- Carrie Manore, Los Alamos National Laboratory, USA
- Markus Owen, University of Nottingham, UK
- Erica Rutter, University of California Merced, USA
- Cole Zmurchok, Notch Therapeutics, Canada

**Call for participation will be posted in August 2023**

<https://www.siam.org/conferences/cm/conference/ls24>



# Future conference

LOCATION: SOMEWHERE IN THE NORTHEAST/MID-ATLANTIC

Dates: Summer 2026

- Aim to increase participation from industry by potentially choosing a venue that serve as an industry hub
  - Greater Boston area
  - New Jersey/New York/Philadelphia
  - Research Triangle area, North Carolina
  - Maryland/DC

# ICIAM 2023



The congress will take place at Waseda University, Tokyo, Japan from August 20-25, 2023.

SIAM is a member of the International Congress on Industrial and Applied Mathematics (ICIAM).

ICIAM 2023 is being organized by JSIAM (Japan Society for Industrial and Applied Mathematics) and MSJ (Mathematical Society of Japan), members of ICIAM.

<https://iciam2023.org/>

# SIAG LS Early Career Prize

## Prize Description

The SIAM Activity Group on Life Sciences Early Career Prize (SIAG/LS Early Career Prize) is awarded every two years to one individual in their early career, in the field of mathematics applied to the life sciences, for distinguished contributions to the field in the three calendar years prior to the award year.

## Eligibility Criteria

The nominee's work must be a significant research contribution to biomathematics. At least one of the papers containing this work must be published in English in a peer-reviewed journal or conference proceedings bearing a publication date within the three calendar years prior to the year of the award. Moreover, either the recipient must be a graduate student or the paper's publication date must be no more than three (3) calendar years later than the year in which the author received the PhD or equivalent degree. The overlap in publication eligibility periods is intended to ensure that no candidate will fail to be considered due to the nomination deadline. The committee may consider exceptions to the three-years after PhD rule, for career interruptions or delays occurring, e.g., for child bearing, child rearing, or elder care. The award can be received only once in a lifetime.

For the 2024 award, the paper must have been published between the dates of January 1, 2021 - December 31, 2023. The candidate must have been awarded their PhD no earlier than 2018 or be a current graduate student.

## Required Materials

- ✓ Nominator's letter of recommendation for candidate
- ✓ Candidate's CV
- ✓ Bibliographic citation for candidate's key contributing paper
- ✓ Two or three letters of support from experts in the field

**Nomination is due on October 15, 2023**

# Gene Golub SIAM Summer School

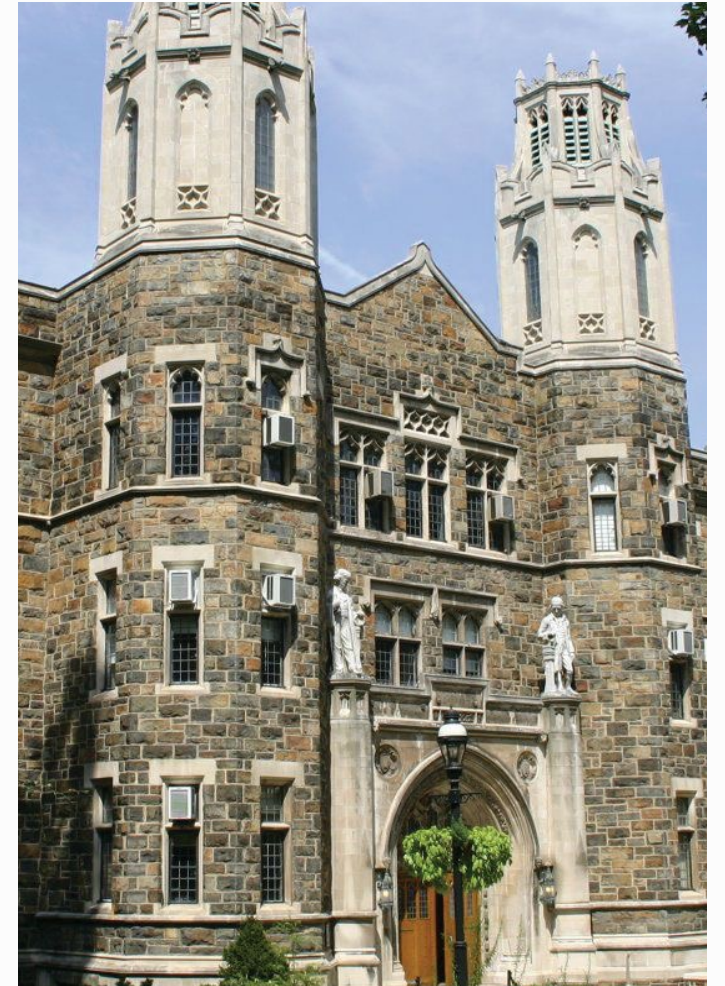
For 2025 Summer School  
Letter of intent is due on Jan 31, 2024

## Quantum Computing and Optimization

July 31 – August 11, 2023

Lehigh University, Bethlehem, PA

By harnessing the properties of subatomic particles, quantum computing (QC) has the potential to radically transform our capability to solve extremely difficult decision-making and optimization problems for which no efficient classical algorithms exist. The goal for this program is to help build the next generation of QC researchers by bringing together QC and optimization experts and students in an inquiry-based learning environment.



**For more information visit:** <https://www.siam.org/students-education/programs-initiatives/gene-golub-siam-summer-school>

# 2023 SIAG/LS

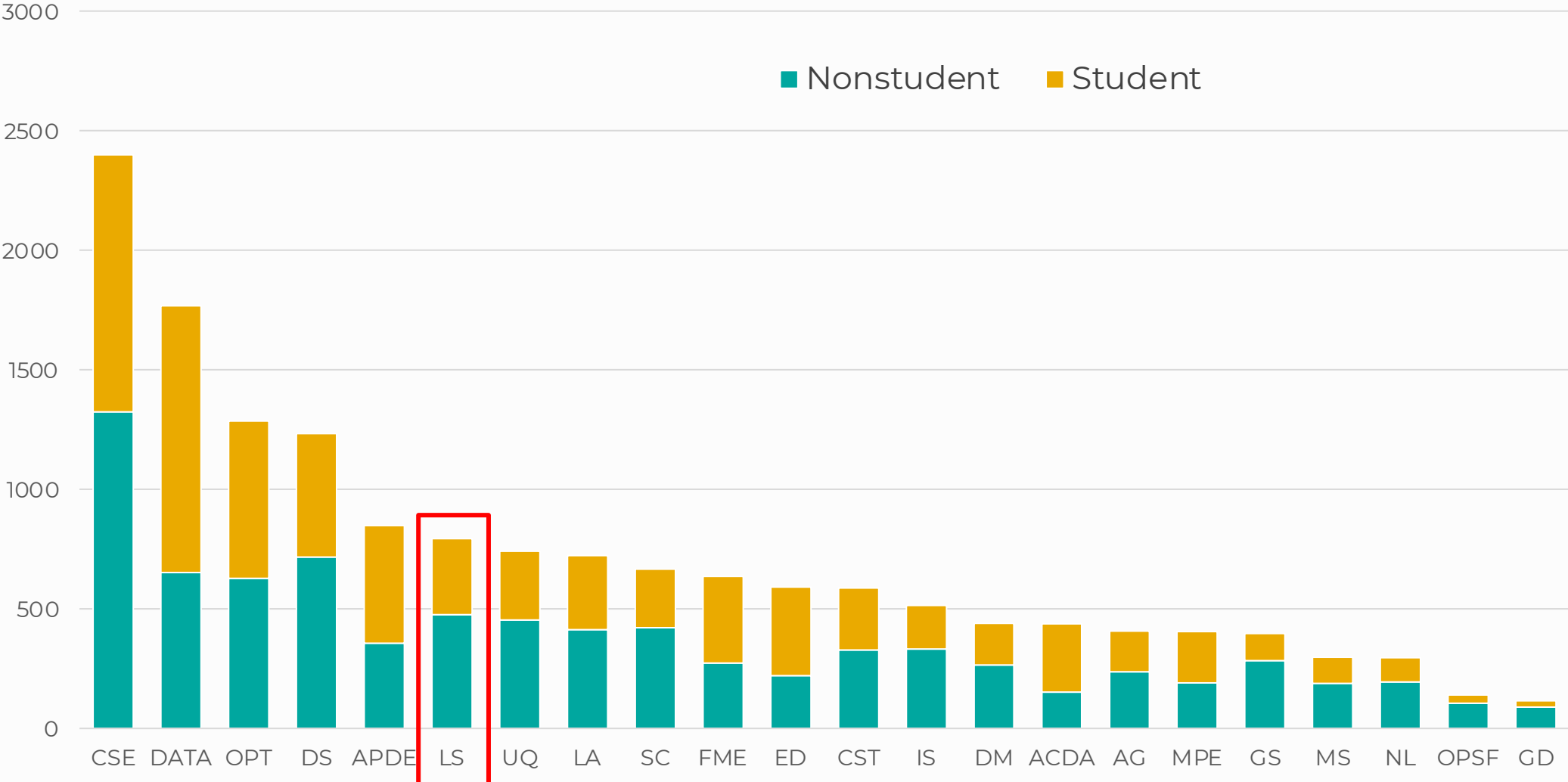
## Membership Report

*(data as of December 31, 2022)*

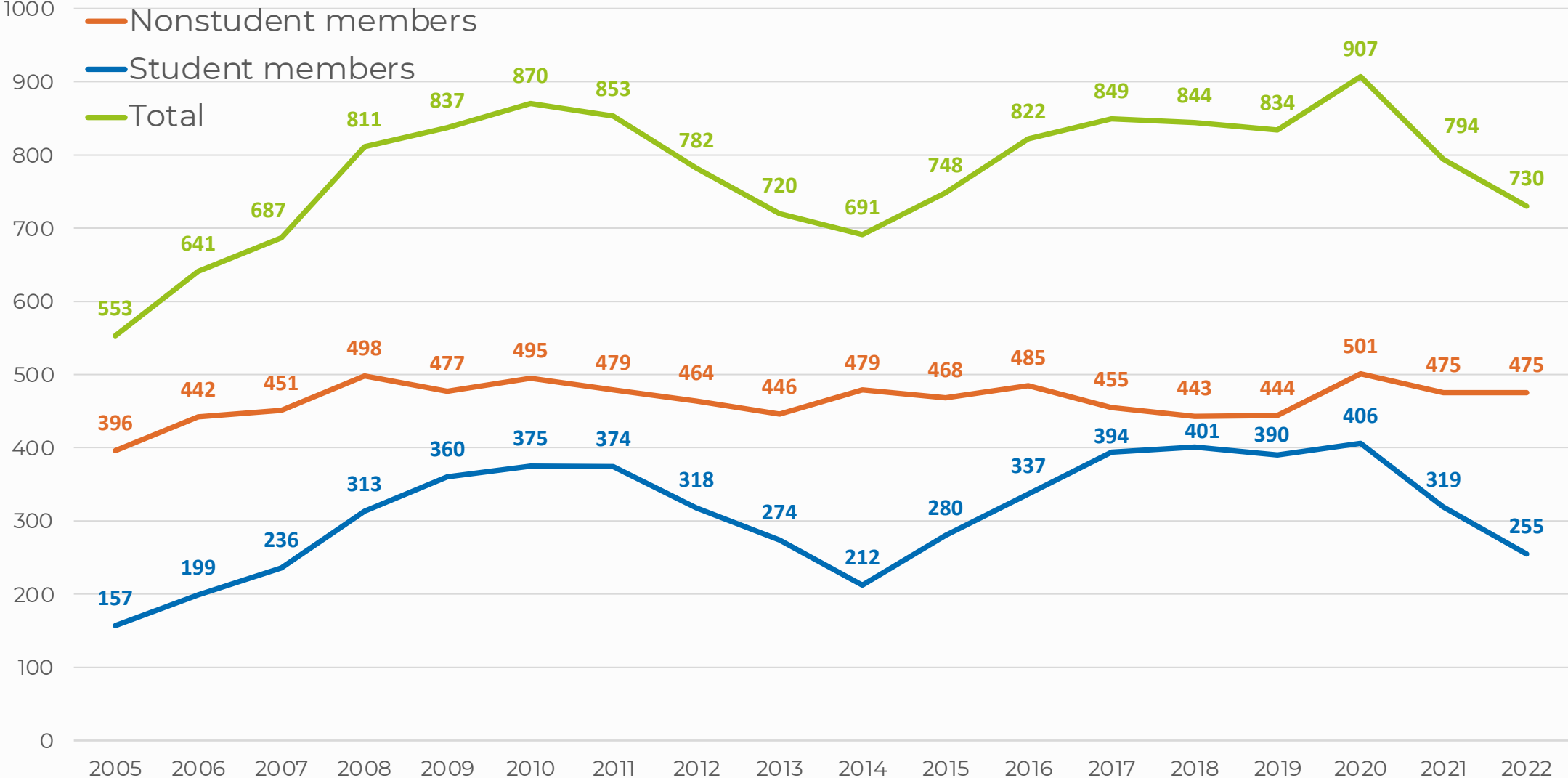


2023 SIAG/LS BUSINESS MEETING

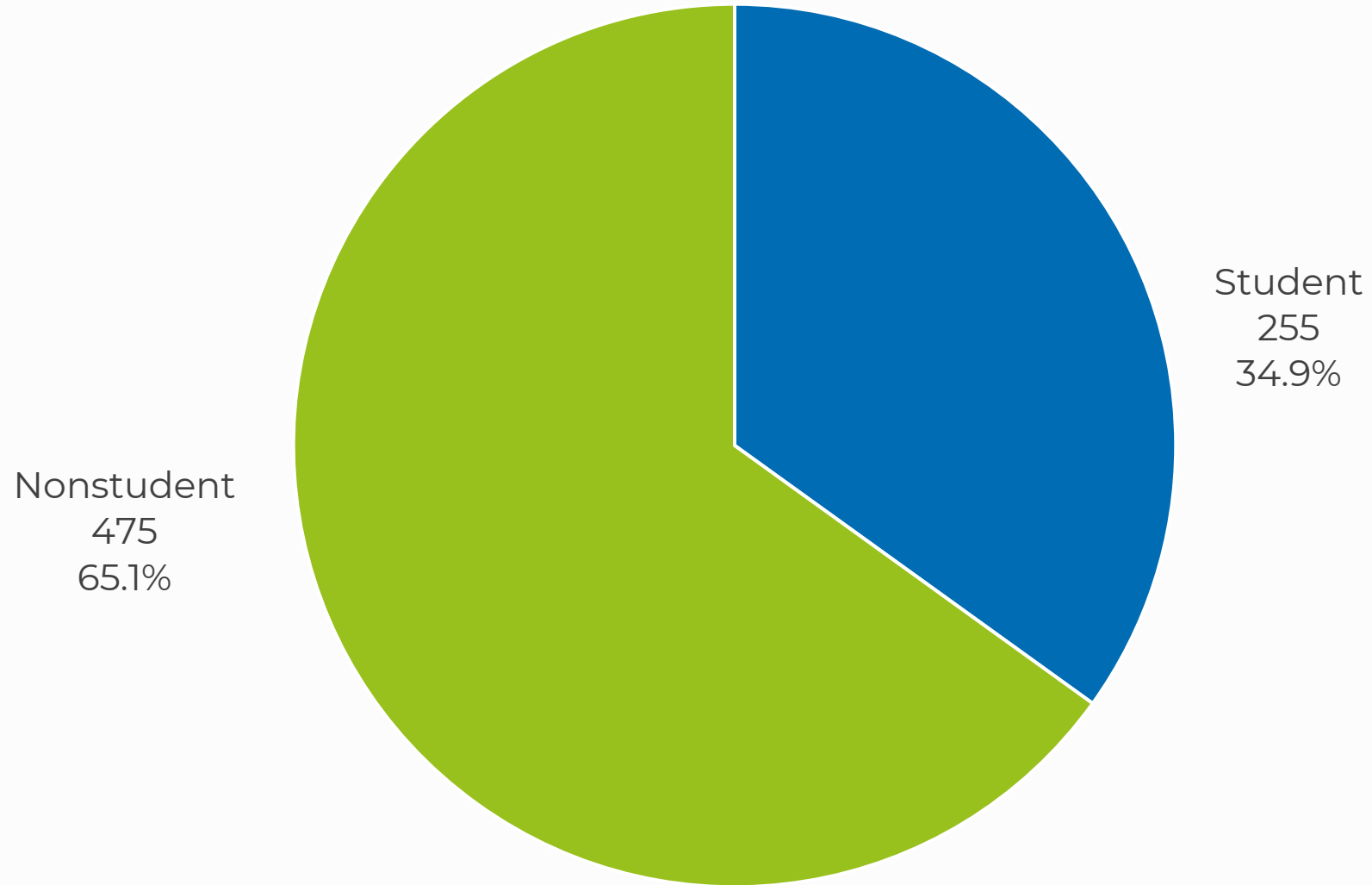
# SIAG Overall Membership



# SIAG/LS Membership Demographics



# SIAG/LS Membership Demographics



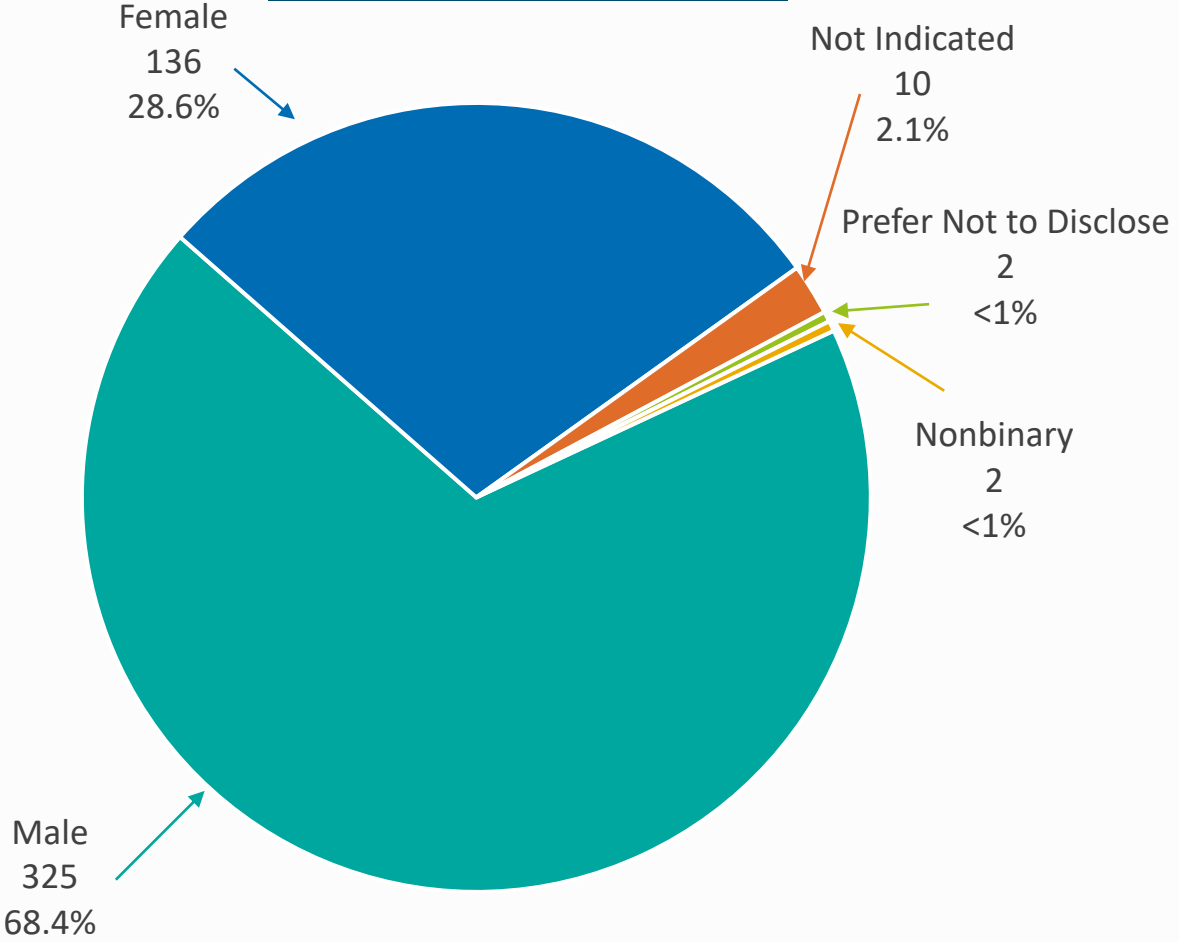


# SIAG/LS Membership by Geography

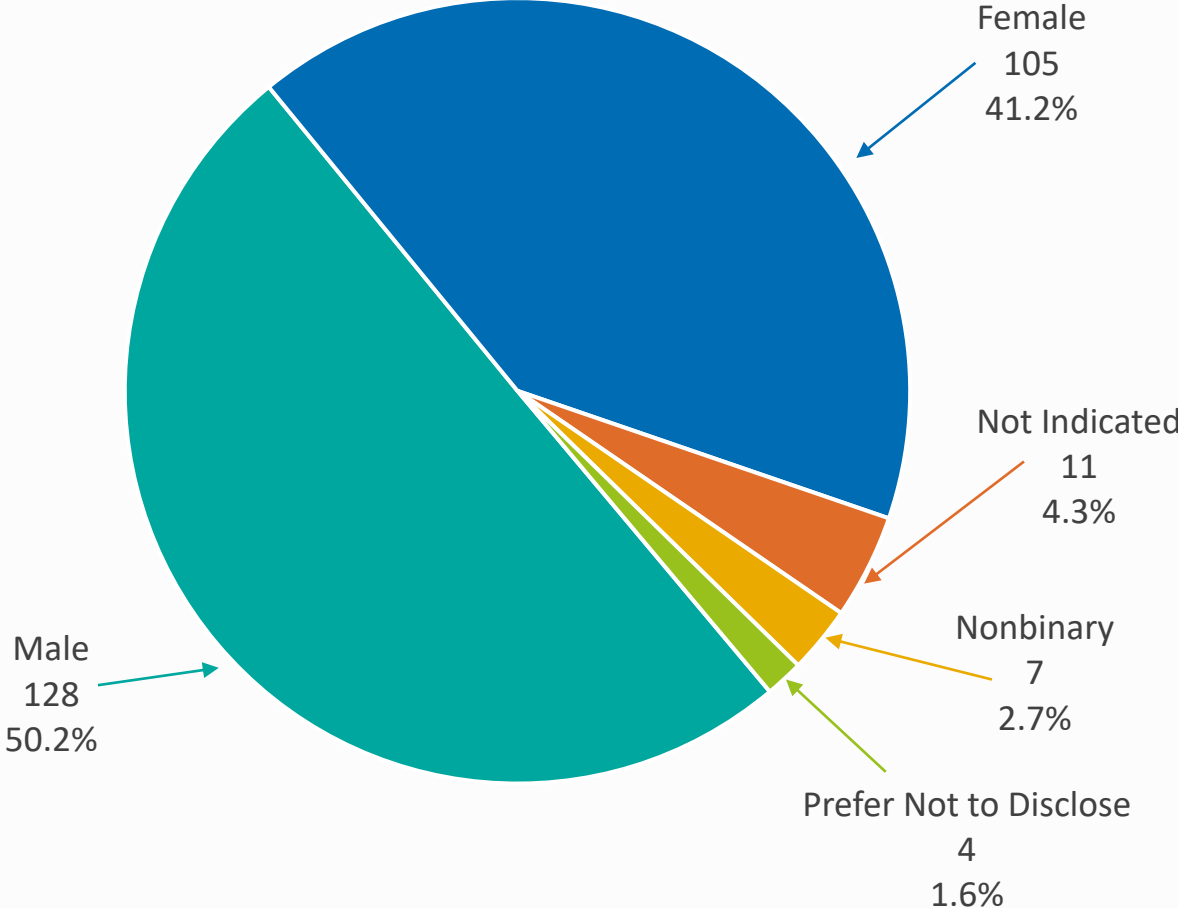
	US		Non-US		Total	
Nonstudent	374	51%	101	14%	475	65%
Student	180	25%	75	10%	255	35%
Total	544	76%	176	24%	730	

# SIAG/LS Membership by Gender

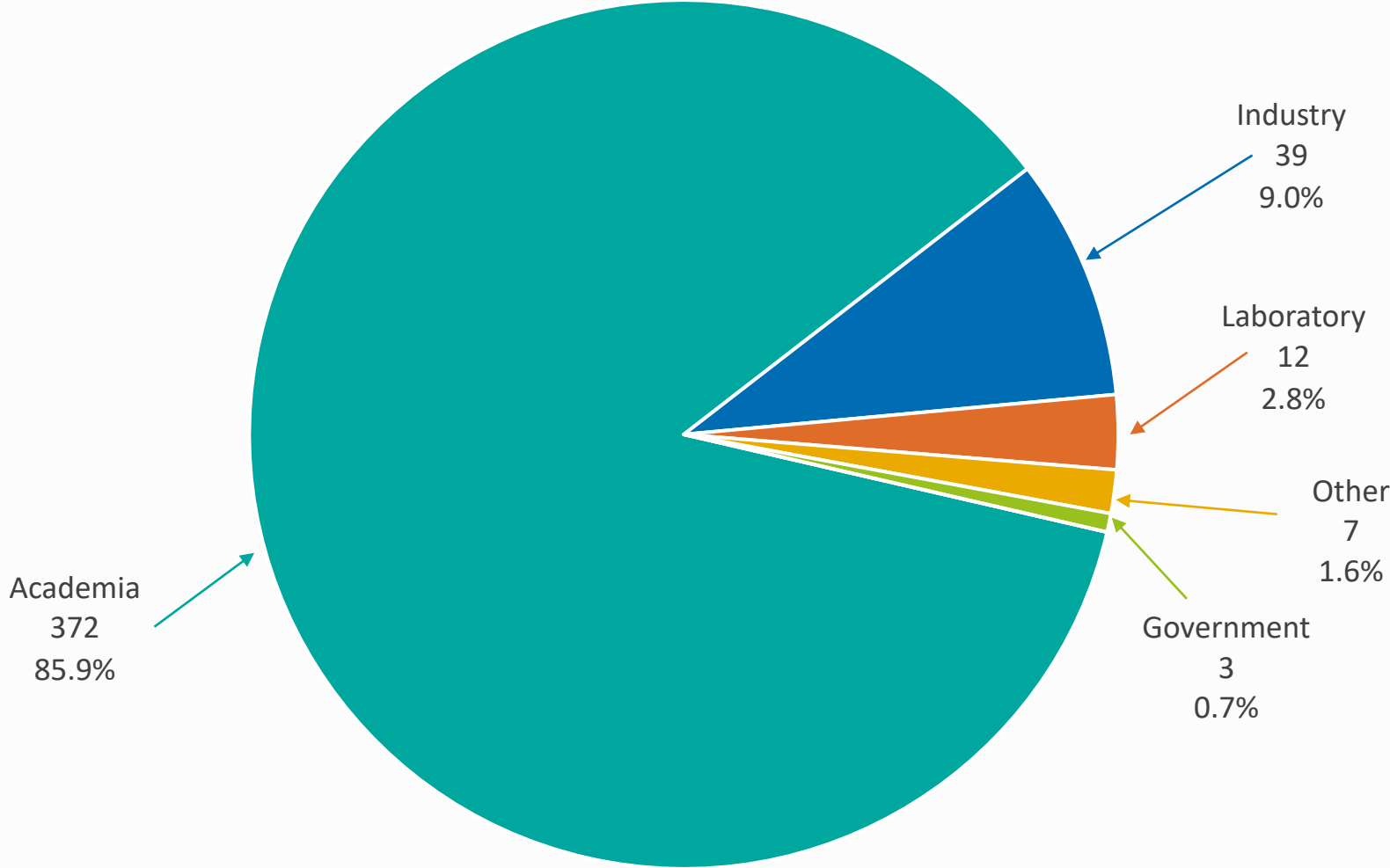
## Nonstudents



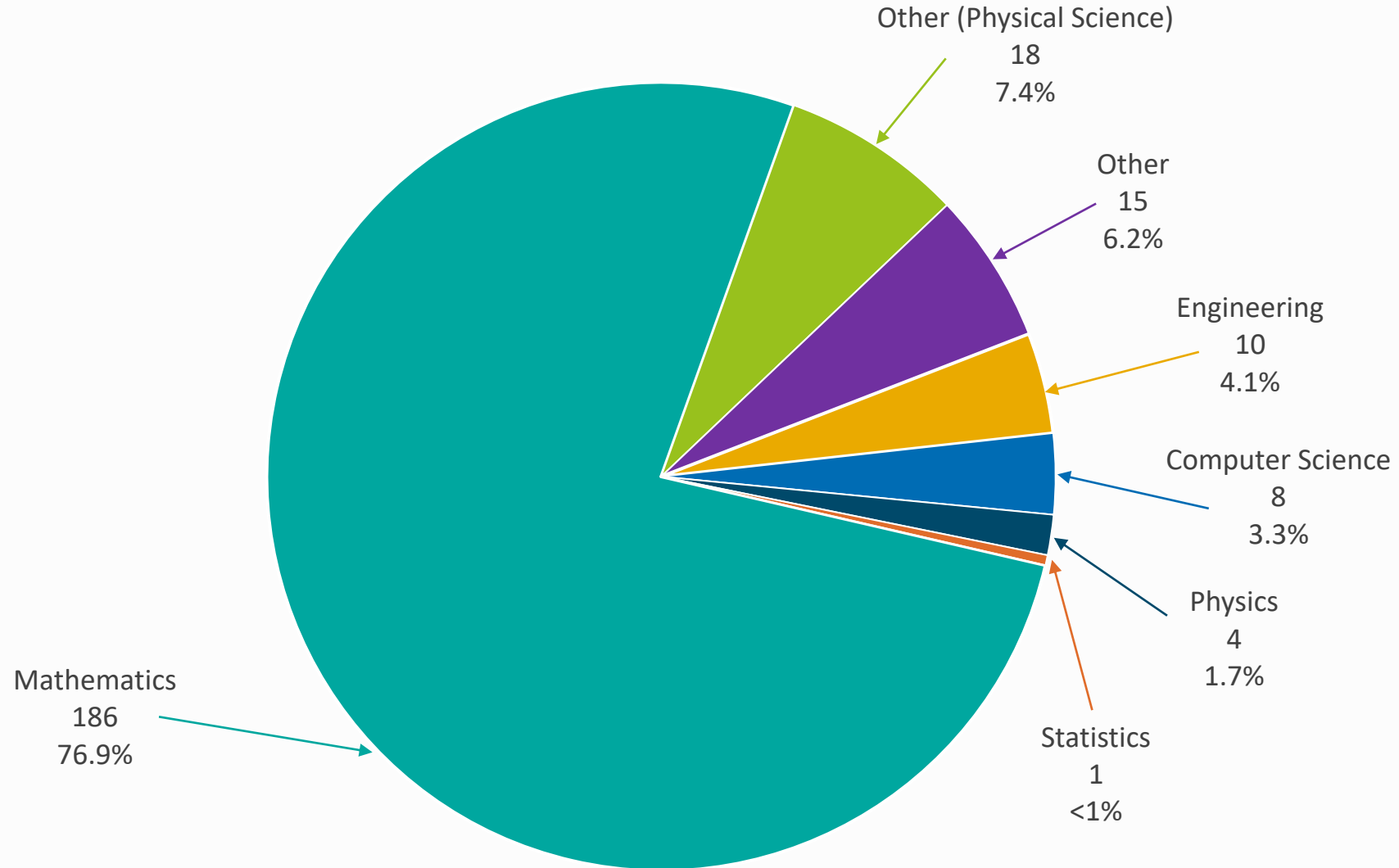
## Students



# SIAG/LS Membership by Employer Type



# SIAG/LS Membership by Department Type



# Discussion Items

- THEMES AND LOCATION OF 2026 CONFERENCE
  - MORE APPLICANTS FOR THE EARLY CAREER PRIZE
  - EXPANDING OUR MEMBERSHIP
  - DO WE WANT A NEW PRIZE (LOTS OF WORK)?
  - DO WE WANT A SIAM JOURNAL (EVEN MORE WORK)?
-



Follow us on Twitter:  
[@LS\\_SIAM](https://twitter.com/LS_SIAM)

# Contacts

Chair

Frederick Adler  
[adler@math.utah.edu](mailto:adler@math.utah.edu)

Vice Chair

Helen Moore  
[dr.helen.moore@gmail.com](mailto:dr.helen.moore@gmail.com)

Program Director

Nessy Tania  
[nessy.tania@pfizer.com](mailto:nessy.tania@pfizer.com)

Secretary

Cheng Ly  
[cly@vcu.edu](mailto:cly@vcu.edu)

News Liaison

Reginald McGee  
[rmcgee@holycross.edu](mailto:rmcgee@holycross.edu)

**siam**<sup>®</sup>  
Activity Group on  
Life Sciences

2023 SIAG/LS BUSINESS MEETING