



The
Electrochemical
Society

Advancing solid state &
electrochemical science & technology



2023 YEAR IN REVIEW

Highlights

2023 Year in Review

Our members' crucial role in addressing global challenges such as climate change, renewable energy, connectivity, and pandemics became increasingly clear in 2023. As the leading society in solid state and electrochemical science, we take pride in fulfilling our urgent mission and in empowering members at the forefront of discovery amid ongoing global uncertainties. Key 2023 achievements include:

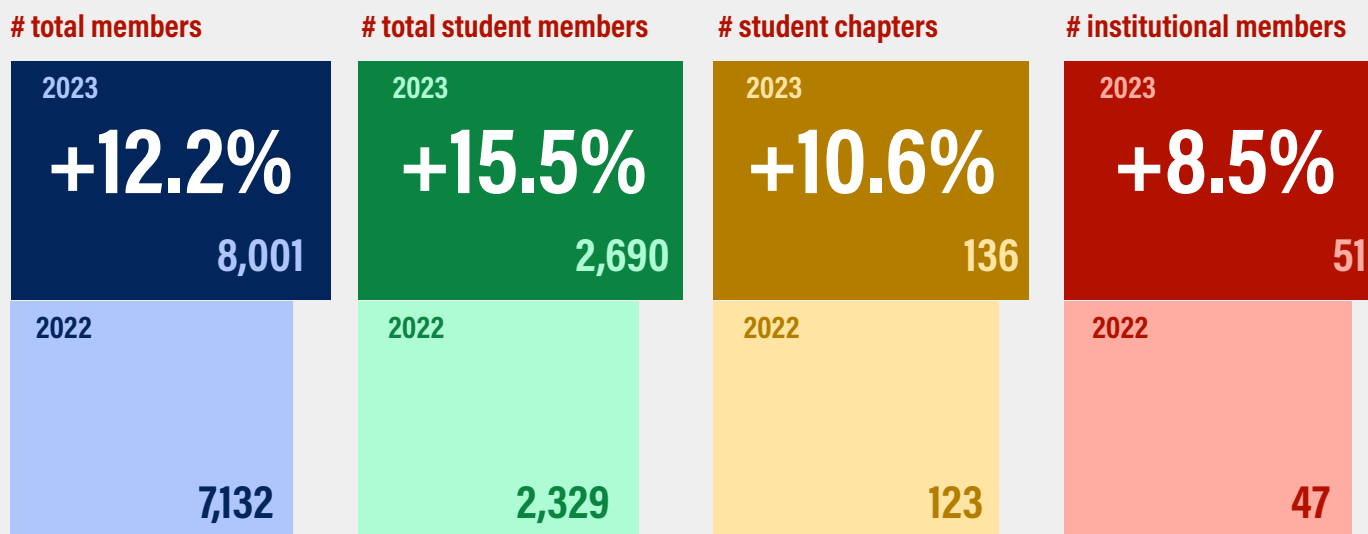
- Convening scientists at all career stages—from academia, industry, and governmental organizations—at ECS meetings designed to drive research, discovery, and collaboration;
- Promoting global awareness of our science and technology;
- Supporting and nurturing future leaders and recognizing rising stars in electrochemical and solid state science via ECS Student Chapters and awards;
- Expanding ECS's global membership;
- Expanding traditional journal offerings and fostering open access for faster scientific progress;
- Strengthening diversity and inclusion through the ECS Presidential Ad Hoc Committee on Diversity, Equity, Inclusion, and Engagement;
- Increasing our international presence post-pandemic with meetings in Europe and leadership visits to Asia and Mexico; and
- Achieving strong financial results to sustain these initiatives.

We invite you to join us in 2024 for the **245th ECS Meeting** in San Francisco (May 26–30), and **PRiME 2024** in Honolulu (October 6–11), and submit your work to the **ECS Family of Journals**, which have been delivering peer-reviewed excellence since 1902.



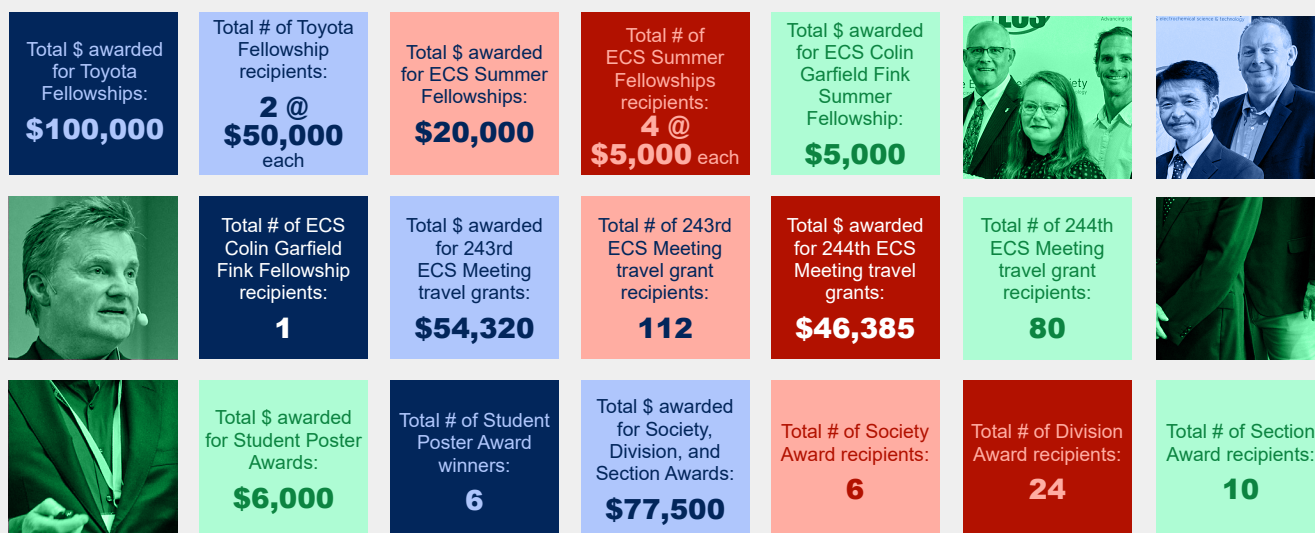
Membership

- More than 8,000 members strong and a return to pre-pandemic membership levels.
- The 2,690 student members is the largest number of student members ever!
- Representing 13 new Student Chapters in India, Mexico, Republic of Korea, Singapore, Thailand, and the United States, these students now bring their passion for the Society and electrochemistry and solid state science to their local student bodies.



Honors, Awards, Fellowships, and Grants

- The 2023 ECS Class of Fellows welcomed 15 new members: **Martin Bazant, Jeffrey Blackburn, Teruhisa Horita, Ajit Khosla, Po-Tsun Liu, Robert Mantz, Nazario Martín, John Muldoon, Mikael Östling, Bryan Pivovar, Minhua Shao, Peter Strasser, Alice Suroviec, Chunsheng Wang, and Bilge Yildiz.**
- With the addition of two 2023–2024 ECS Toyota Young Investigator Fellows, the Society's partnership with the Toyota Research Institute of North America has, since its inception, provided more than \$1.5M in research funding to 30 young investigators.
- The ECS Mid-America Section reestablished the Ernest B. Yeager Electrochemistry Award (previously offered by the ECS Cleveland Section), recognizing significant contributions to fundamental electrochemical science and engineering and distinguished careers as educators/researchers in Indiana, Illinois, Ohio, and Kentucky.



Meetings

243rd ECS Meeting with the 18th International Symposium on Solid Oxide Fuel Cells (SOFC-XVIII)

- **Linda L. Horton**, Associate Director of Science for Basic Energy Sciences (BES), US Department of Energy (DOE) Office of Science (SC), delivered the ECS Lecture at the meeting's plenary session.
- For the first time since 2011, the 243rd ECS Meeting was co-located with SOFC-XVIII. Their day-long plenary session featured talks by **David Tew**, ARPA-E; **William Gibbons**, DOE EERE; **Shailesh Vora**, DOE; **Mirela Atanasiu**, Clean Hydrogen Partnership; **Yosuke Fujii**, NEDO; and **Rak-Hyun Song**, KIER.

244th ECS Meeting

- **Zhenan Bao**, K. K. Lee Professor of Chemical Engineering, Stanford University, delivered the ECS Lecture at the meeting's plenary session.
- A special seminar, *Young Researchers in Europe*, highlighted the work of up-and-coming scientists, provided funding information, and fostered cross-border collaboration.
- Meeting attendees showed off their poetry, singing, and performance chops at a new and unique event, *It Could be Verse: An Evening of Poetry and More*.

Participants: 2,886	Symposia: 46	# of countries represented: 62	Abstracts: 2,905	Participants: 3,395	Symposia: 48	# of countries represented: 67	Abstracts: 3,442
Exhibitors: 43	Total external symposium funding: \$33,900	Total division symposium funding: \$28,185	Total registration waivers: 56	Exhibitors: 53	Total external symposium funding: \$151,819	Total division symposium funding: \$32,500	Total registration waivers: 170



Publications

- Eliminated barriers to scientific progress by doubling transformative and read-and-publish agreements globally, enabling authors to access content behind paywalls and publish open-access without fees.
- Expanded our pool of qualified peer reviewers through training and education opportunities and designed new ways to encourage authors to choose ECS as their publication home.
- Attracted new reviewers dedicated to the ECS mission, equipped with ECS and IOP Peer Review Excellence training and certification.
- Maintained a digital library with record-breaking download and readership metrics.

Articles and abstracts
downloaded from the
ECS Digital Library:

9,015,249

Journal articles
published in the
2023 volume year:

1,763

Percentage of articles
published open
access in 2023:

35%

of open access
papers published:

614



Continuing Education

The [ECS Continuing Education](#) program continues to grow to meet and support the needs of the community, offering webinars, short courses, and professional development opportunities. ECS also announced efforts to launch battery workforce development coursework, focused on three initial courses set to launch in 2024:

- Components for Lithium Ion Batteries
- Electrochemical Techniques and Diagnostics for Batteries
- Fabrication of Batteries and Pack Design

Webinars:

10

Participants:

5,274

Speakers:

10

Short Courses:

4



Total Short Course
registrants:

79

Professional
development
workshops:

7

Professional
development
workshop registrants:

325