



The
Electrochemical
Society

Advancing solid state &
electrochemical science & technology



2022 YEAR IN REVIEW

Highlights

2022 Year in Review

While the tumultuous 2020s continue to present the Society and the world with myriad, unprecedented challenges, the ECS community endured these trying times and continued to further the Society's vital mission of advancing our science for the betterment of all humanity.

In 2022, we:

- Successfully launched two new open access journals, *ECS Sensors Plus* and *ECS Advances*; the first issues were distributed in March and April respectively, with more than 17 articles submitted and 3,068 downloaded (despite only opening for submissions in January 2022);
- Returned to in-person meetings; more than 4,000 members and constituents came together at our biannual conferences in Vancouver, Canada (spring), and Atlanta, GA (fall);
- Engaged and championed inclusivity, honoring and supporting members' accomplishments at every career level, and launched new awards, including the John B. Goodenough Award of The Electrochemical Society, which recognizes distinguished contributions to the fundamental and technological aspects of electrochemical materials science and engineering;
- Expanded the ECS member base; more than 1,000 new members joined the ECS community;
- Exercised disciplined, prudent fiscal stewardship; maintained our strong financial position despite global inflation and a volatile economic climate.

The following report provides greater detail on the Society's 2022 operations and performance, and on how the members, volunteers, and staff together supported the ECS mission of advancing theory and practice at the forefront of electrochemical and solid state science and technology, and allied subjects.

MEMBERSHIP

Total Members:

7,132

Student members:

2,329

Overall Membership

Retention:

71%

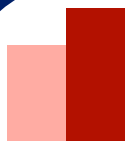
(increase from
58% in 2021)

Members in good standing:



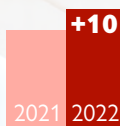
+20.8%

Student members in good standing:



+37.9%

Total student chapters:



123

Institutional members:



47

Highlights

With the return to in-person meetings, membership began rebounding. In 2022, the number of members in good standing (i.e., dues-paying members) increased by 1,040 individual members. In addition, for the

first time, the Society hosted in-person member receptions at both ECS biannual meetings—each event bringing more than 500 members together to network.

FELLOWSHIPS AND AWARDS

ECS Fellows

Number of Fellows
inducted into the 2022 class:

15

Total awarded:
\$250,000

Number of recipients:
5 at \$50,000 each

ECS Summer Fellowships

**ECS Summer
Fellowships**

Total awarded:
\$20,000

Number of recipients:
4 at \$5,000 each

**ECS Colin Garfield Fink
Summer Fellowship**

Total awarded:
\$5,000

Number of recipients:
1

Travel Grants

241st ECS Meeting

Total awarded:
\$47,135

Number of recipients:
111

242nd ECS Meeting

Total awarded:
\$59,160

Number of recipients:
102

SOCIETY, DIVISION, AND SECTION PRIZES

Student Poster Awards

Total awarded:
\$5,000

Number of
poster winners:
5

Student Poster Awards

241st ECS Meeting

1st prize: **\$1,500**
2nd prize: **\$1,000**

242nd ECS Meeting

1st prize: **\$1,500**
2nd prize: **\$1,000**

Society, Division, & Section Awards

Total awarded:
\$57,500

Total number of recipients:
50

Society:
8

Division:
31

Section:
11

Highlights

The Honors & Awards Program continues to showcase outstanding technical achievement in electrochemical and solid state science, and to recognize exceptional service to the Society. ECS awarded \$28,000 for eight Society awards; \$21,500 for 31 division awards; and \$8,000 for 11 section awards.

The Society proudly announces the 2022 ECS Class of Fellows: **Michel Armand, Perla Balbuena, Gerd Ceder, Wilson Chiu, Andrew Hoff, Gao Liu, Brett Lucht, Janine Mauzeroll, Nguyen Minh, Deborah Myers, James Noël, Elizabeth**

Podlaha-Murphy, Vijay Ramani, Yasuhiro Shimizu, and Shunpei Yamazaki.

The new Society award created in honor of longtime ECS member and Nobel laureate **John B. Goodenough** was a special highlight. ECS President **Turgut Gür** and Past President **Eric Wachsman** announced the award at Prof. Goodenough's 100th Birthday Celebration. He responded, "Thank you all very much, and remember this: one step at a time!"





241st ECS Meeting Vancouver, BC, Canada

MEETINGS

Participants:
2,174

Symposia:
45

Number of countries
represented:
66

Abstracts:
2,515

Exhibitors:
21

Symposium Speaker Funding

Total external symposium funding:
\$19,875

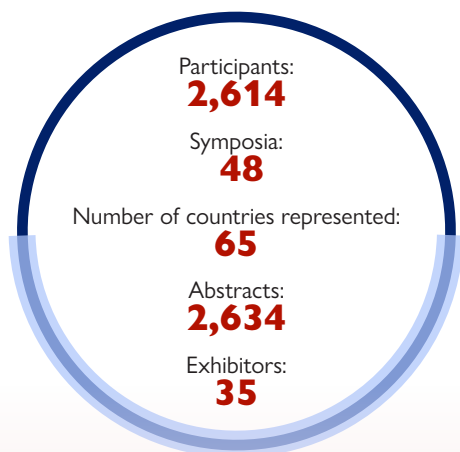
Total division symposium funding:
\$26,300

Total registration waivers:
\$25,282.31

Special Events

- 241st ECS Meeting Plenary Speaker: **Jeff Dahn** (*Dalhousie University*), "Modern Lithium-Ion Batteries: More than One Million Miles and Possibly a Century of Life"

- First time livestreaming Plenary Lecture and award talks
- First time hosting digital presentation files
- Inaugural ECS Member Reception
- Launch of Meet the Editors Program



Symposium Speaker Funding

Total external symposium funding:
\$160,375

Total division symposium funding:
\$51,630

Total registration waivers:
\$71,390



242nd ECS Meeting Atlanta, GA

Special Events

- 242nd ECS Meeting Plenary Speaker: **M. Stanley Whittingham** (*Binghamton University*), "The Critical Role of Energy Storage in the Electric Economy and Overcoming Climate Change"
- Celebration of 100 Years of the Electrodeposition Division: Past, Present, and Future

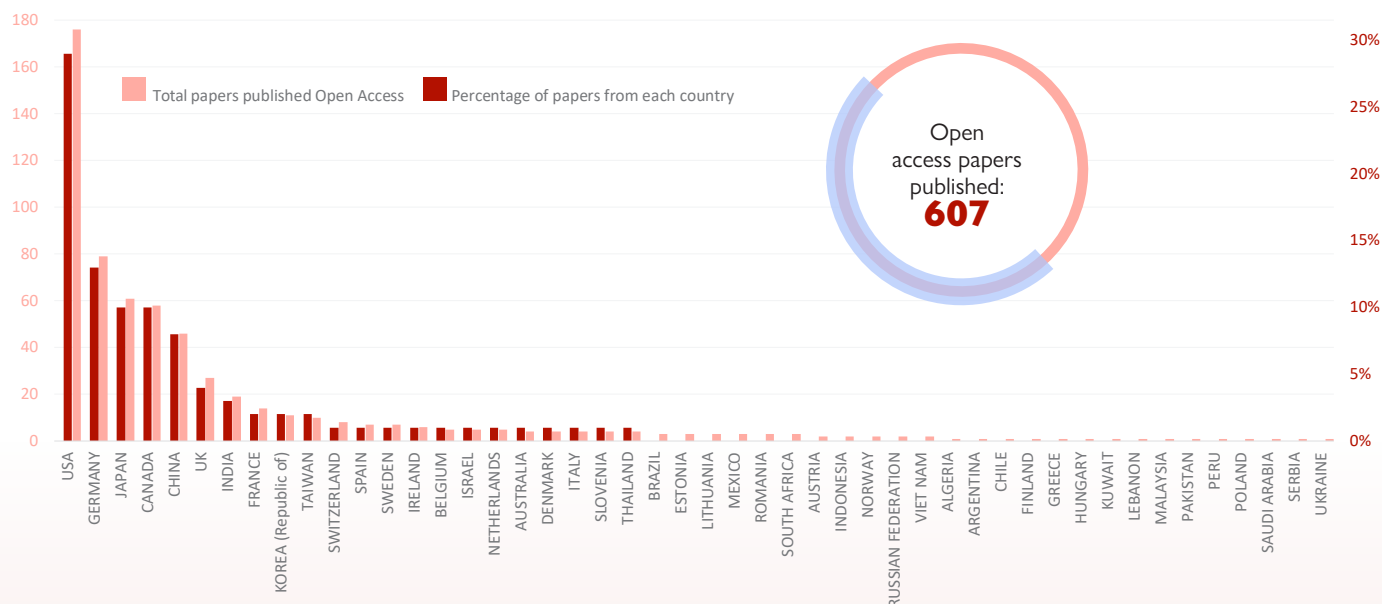
- Fulbright Program – Meet the Alumni
- Symposia honoring **George Blomgren, Gerald Frankel, D. Noel Buckley, Robert Savinell, George Blasse, Jean-Michel Savéant, and Friedrich B. Prinz**

ECS Sponsored Meetings

- StorageX International Symposium Series
- Telluride Innovation Workshop: Decarbonization of Cement
- 7th Annual Next Generation Electrochemistry (NGenE) Workshop: Electrochemistry for Decarbonization
- Aqueous Corrosion Gordon Research Conference
- 2022 Workshop on Electrochemical Measurements

- Electrochemistry Gordon Research Seminar
- Electrochemistry Gordon Research Conference
- XXXVII Congreso Nacional de la Sociedad Mexicana de Electroquímica
- Organic Battery Days 2022

PUBLICATIONS



Articles and abstracts downloaded from the ECS Digital Library:

7,934,936

Journal articles published in the 2022 volume year:

2,084

Percentage of articles published open access in 2022:

41%

Highlights

- Two new journals, *ECS Sensors Plus* and *ECS Advances*
- Publications webinar series
- Increase in impact factor for JES and JSS
- *Focus Issue In Honor of John Goodenough: A Centenarian Milestone*

- *Focus Issue on Women in Electrochemistry*
- Almost 8 million content downloads
- New Transformative Agreements with more than 200 institutions worldwide to support more open access content for researchers

CONTINUING EDUCATION

Highlights

Webinars:
16

Participants:
6,000+

Speakers:
22

Short Courses:
4

Total registrants:
76

ECS launched a request for proposals in late 2022 to solicit the development of battery workforce development courses. The first round of courses is targeted at MS/PhD audiences to help retrain and/or develop new skills to meet the changes in the battery workforce.

