

DEPARTMENTS

Section News - Summer 2021

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Brazil Section

The **ECS Brazil Section** recently received a request from the Brazilian Society of Electrochemistry (SBEE-Sociedade Brasileira de Eletroquímica e Eletroanálise) to promote this year's SBEE symposium. In the past, ECS has supported the SBEE meetings by awarding the two best student presentations with travel grants to attend ECS biannual meetings. The Brazil section's board judges the presentations.

Due to the COVID-19 restrictions, the ECS Brazil Section is starting a series of local web seminars to engage local graduate students. As of now, the following seminars are planned, with dates to be determined: "Self-organization in Electrodeposition Reactions—A Molecular and Kinetic Understanding" by **RAPHAEL NAGAO**, University of

Campinas; "Recent advances in bioelectrochemistry—Microbial and enzymatic biocells" by **ADALGISA DE ANDRADE**, University of São Paulo-Ribeirão Preto; "Electrochemical Microprobes in Corrosion Studies" by **LUIS DICK**, Federal University of Rio Grande do Sul; and "Localized Corrosion of Alloys" by **GERHARD KNÖRNSCHILD**, Federal University of Rio Grande do Sul.

We sadly communicate the loss of three important Brazilian electrochemists during the past few months: **ERNESTO GONZALEZ**, University of São Paulo; **CARLOS D'ALKAINE**, Federal University of São Carlos; and **LUIS ALBERTO AVACA**, University of São Paulo. They contributed significantly to the field of electrochemistry in Brazil and will be missed as mentors, as colleagues, and as friends.

Japan Section

In 2020, while face-to-face events activities were limited under COVID-19, the **ECS Japan Section** cosponsored meetings, activities, and events for young researchers and students in the electrochemical field.

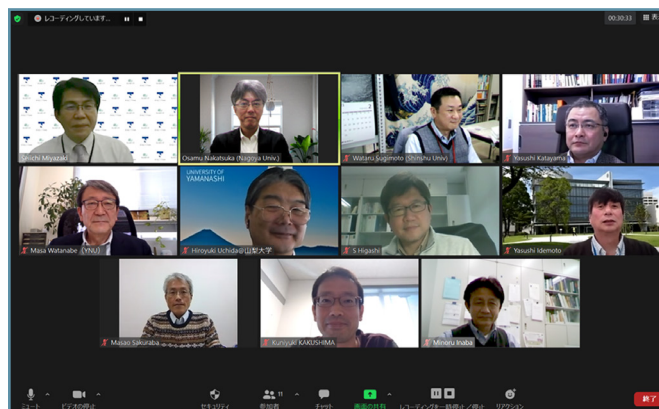
The 3rd Kansai Denki-Kagaku Kenkyukai (Electrochemistry Workshop), held through Zoom webinar on November 28, 2020, drew over 240 participants and one invited lecture. Presentations via Remo were made by 68 student authors below the PhD level. The awards ceremony was also held with 12 authors receiving the Kansai-Denki-Kagaku-Shourei-Shou Award.

The Japan section's 2021-2022 executive committee term launched starting in January. The first committee meeting was held online in

March 2021. The newly selected officers are: Section Chair **SEIICHI MIYAZAKI**, Nagoya University; First Vice-Chair **YASUSHI IDEMOTO**, Tokyo University of Science; Second Vice-Chair **SEIICHIRO HIGASHI**, Hiroshima University; Section Secretary/Treasurer **OSAMU NAKATSUKA**, Nagoya University; Members at Large **TAKAYUKI HOMMA**, Waseda University; **MINORU INABA**, Doshisha University; **YASUSHI KATAYAMA**, Keio University; **WATARU SUGIMOTO**, Shinshu University; **HIROYUKI UCHIDA**, University of Yamanashi; **MASAO SAKURABA**, Tohoku University; and **KUNYUKI KAKUSHIMA**, Tokyo Institute of Technology; and Councilor **MASAYOSHI WATANABE**, Yokohama National University.



Sixty-eight students at the Japan section's 3rd Kansai Denki-Kagaku Kenkyukai (Electrochemistry Workshop) made presentations via Remo.



Screenshot of the March 15, 2021, online ECS Japan Section's committee meeting with newly elected officers. Top row, from left to right: Section Chair **SEIICHI MIYAZAKI**, Section Secretary/Treasurer **OSAMU NAKATSUKA**, Members at Large **WATARU SUGIMOTO** and **YASUSHI KATAYAMA**. Second row, from left to right: Councilor **MASAYOSHI WATANABE**, Member at Large **HIROYUKI UCHIDA**, Second Vice-Chair **SEIICHIRO HIGASHI**, First Vice-Chair **YASUSHI IDEMOTO**. Third row, from left to right: Members at Large **MASAO SAKURABA**, **KUNYUKI KAKUSHIMA**, and **MINORU INABA**.

Pacific Northwest Section

The ECS Pacific Northwest Section successfully launched its webinar series in 2021 with quarterly presentations. The recorded presentations are available on the ECS YouTube channel.



WEI WANG

On January 28, 2021, **DAVID REED** and **WEI WANG**, Pacific Northwest National Laboratory (PNNL), presented “R&D Efforts in Energy Storage Technologies for the Grid at the PNNL,” highlighting recent PNNL efforts to accelerate the acceptance of energy storage technologies for grid-scale application. They covered the

investigation of new and existing systems (i.e., redox flow batteries, Na-ion, and Zn/MnO₂) and described the novel digital twin approach to accelerate energy storage discovery and development.

On March 4, 2021, **XIULEI (DAVID) JI**, Oregon State University, discussed “Aqueous Battery Chemistry: Considerations from a Reaction’s Perspective,” a conceptual framework for battery design principles. He introduced rocking-chair batteries, dual-ion batteries, and non-metal charge carriers (i.e., proton, ammonium, halides, and superhalides).



DAVID REED



XIULEI (DAVID) JI

DANIEL (DAN) SCHWARTZ presented “Clean Energy Institute’s Open Access Facilities & Emerging Tools for Battery Science” on April 8, 2021. The webinar shared information on instruments and equipment available for external use such as advance lab-scale X-ray spectroscopies for experiments like XANES and the scale-up facilities for coating, printing, processing, and packaging of thin film devices, and hardware/power hardware-in-the-loop for power electronics and system integration engineering.



DANIEL (DAN) SCHWARTZ

The University of Washington and University of Oregon hosted a free “Virtual Industry and Careers Day” for the section on May 14. The goal of this event was to connect undergraduates, graduate students, and postdoctoral researchers with industry and national laboratory representatives that will provide insight into careers in electrochemical fields, valued skills in potential job candidates, and upcoming opportunities in the rapidly expanding electrochemical technology area.

In other news, the section is pleased to announce the new ECS Pacific Northwest Section Electrochemistry Research Award Sponsored by Gamry Instruments. The award recognizes outstanding achievements in electrochemistry and solid state science and technology research by independent scientists or engineers working in Washington State, Oregon, or Idaho. The nomination deadline is July 15, 2021. Learn more about the award, which consists of a framed certificate and \$1,000 (USD) prize.

San Francisco Section

The San Francisco area is known for its diverse and vital economy, culture, and innovation. As the carbon neutral economy takes root, electrochemistry-based R&D and manufacturing are booming in the area. The ECS San Francisco Section voted in its recent business meeting to establish an Inclusion, Diversity, Equity, and Accountability (IDEA) Committee with the mission of promoting electrochemistry to traditionally disadvantaged individuals, groups, and communities. The IDEA committee will host its first talk with

MARCA DOEFF as part of the “ECS San Francisco Section Distinguished Seminar Series.” Doeff is Senior Scientist and Division Deputy from Lawrence Berkeley Laboratory, as well as ECS Secretary. She will share the IDEA principles guiding her distinguished research career at the Berkeley Lab, and her outstanding research in sodium-ion and solid state batteries.



MARCA DOEFF

Open New Doors—Join ECS Sections

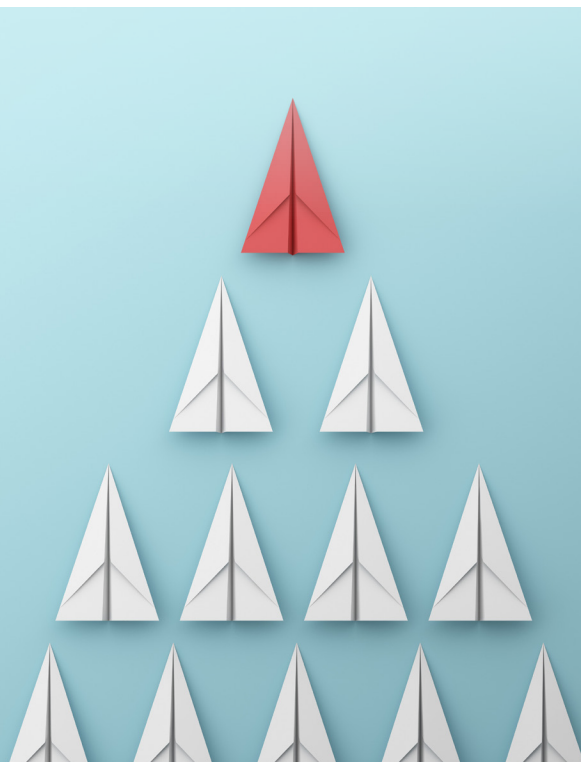
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Section Leadership

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