

The ECS Gdańsk Tech Student Chapter (RedOx Student Science Club) visits the Łukasiewicz Science Center.



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In addition, the group successfully completed another research project that resulted in three scientific publications, including the most significant paper: W. Lipińska, et al., "Transforming Organic Waste: Cabbage-Derived Carbon Containing Copper for Electrochemical Sensing of Ascorbic Acid," in *Sustainable Materials and Technologies*. Together, these achievements highlight the chapter's commitment to addressing real-world challenges through interdisciplinary research and practical electrochemical solutions.

Another major achievement was the chapter's nomination by Gdańsk University of Technology to represent the university in the *Red Rose Competition* as its leading student research group. This distinction is especially meaningful because the university hosts nearly 80 student science clubs. The nomination recognizes the scientific activity, engagement, and teamwork of chapter members.

The chapter has also been actively involved in science outreach. During the *Baltic Festival of Science* and the *Fahrenheit Science Picnic*, members presented an interactive model of a water treatment plant at events attended by approximately 15,000 total visitors. The fully functional and visually engaging model demonstrates the key stages of water treatment before water reaches the city distribution system. Its development required nearly 200 hours of work and has become an effective educational tool for promoting environmental awareness, engineering, and electrochemistry.

ECS Indian Institute of Technology Madras Student Chapter

The ECS IIT Madras chapter hosted a two-day workshop on X-ray photoelectron spectroscopy (XPS) May 22–23, 2026, at the Department of Chemistry. The Madras chapter organized the event with the Society of Materials Chemistry (SMC) Chennai Chapter, with Thermo Fisher Scientific serving as the knowledge partner. The program featured lectures by Prof. **Kothandaraman Ramanujam** (IIT Madras), Dr. **Clinsha P. C.** (Indira Gandhi Center for Atomic Research [IGCAR], Kalpakkam), and Dr. **Karthik Balasubramanian** (Thermo Fisher Scientific), along with live

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Prof. **Kothandaraman Ramanujam** *thanks speaker Dr.* **Karthik Balasubramanian** *from Thermo Fisher Scientific.*
Photo: Kathir Paulraj



Workshop participants learn the functions and operations of an XPS instrument in hands-on demo sessions.
Photo: Manavi Rajan

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The ECS IIT Madras Student Chapter organized a two-day XPS workshop with the Society of Materials Chemistry (SMC) Chennai Chapter. Thermo Fisher Scientific served as knowledge partner.
Photo: Sandeep Kumar

software demonstrations, instrument demonstrations, and interactive discussion. The workshop introduced students and early-career researchers to XPS as a critical surface characterization technique for materials chemistry, electrochemistry, catalysis, and energy storage research, with a particular focus on characterizing cathode materials.

Beyond the formal program, the chapter helped transform the workshop into a student-centered training experience rather than a conventional lecture-based event. By coordinating participant engagement, batch-based hands-on sessions, and peer-supported instrument demonstrations led by trained IIT Madras students, the chapter enabled participants to bridge the gap between theoretical knowledge and practical experimental workflows. Attendees gained experience not only with XPS fundamentals but also with sample loading, vacuum operation, survey spectrum acquisition, elemental identification, depth profiling, chemical-state interpretation, and CASA XPS-based data analysis.

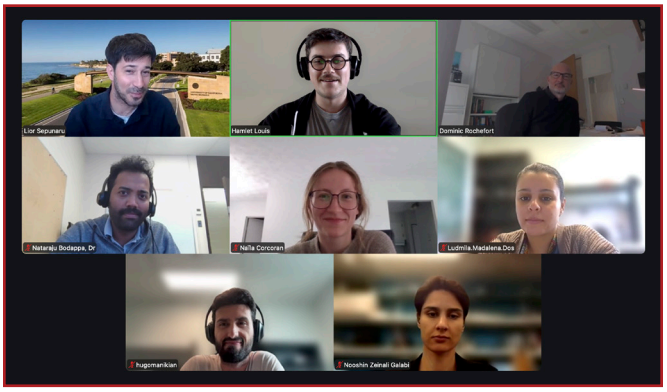
The workshop's scale and reach further highlighted the chapter's impact on the broader student community. A total of 56 participants attended, including eight from IIT Madras and 48 from other institutions in Chennai. Participants trained in seven groups of eight participants to encourage close interaction and individualized instruction. By providing access to advanced instrumentation, industry expertise from Thermo Fisher Scientific, and scientific guidance from experts, the chapter strengthened participants' technical skills, research readiness, and professional networks. Initiatives like this one position the chapter as an important bridge spanning academic training, national laboratory expertise, and industry-oriented analytical practice.

ECS Montréal Student Chapter

The Montréal Student Chapter hosted two webinars over the past few months. In April, Dr. **Alex Peroff** (Pine Research) presented an educational webinar on electrochemical impedance spectroscopy (EIS). He reviewed the fundamentals of alternating current signals, explained the nature of impedance measurements, and discussed how EIS data are plotted and interpreted. In June, Prof. **Lior Sepunaru** (University of California, Santa Barbara) presented "Electrochemistry Beyond Batteries." Prof. Sepunaru demonstrated how electrochemistry can provide fundamental insight into catalytic, biological, and dynamic chemical interfaces far beyond its traditional role in energy storage.

The chapter's *14th Annual Symposium* took place on September 17 at the MIL Campus of Université de Montréal. Students and researchers in electrochemistry from across Québec gathered for the event. In addition to student presentations and posters, keynote presentations were given by Prof. **Samela Martic** from Trent University and Prof. **Guillaume Goubert** from Université du Québec à Montréal.

Upcoming chapter events include a *Sip of Science* networking event.



Prof. **Lior Sepunaru** (University of California, Santa Barbara) *presents the webinar "Electrochemistry Beyond Batteries."*