

NEXT GENERATION ELECTROCHEMISTRY (NGenE) 2019

presented by

University of Illinois at Chicago
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The 4th edition of [Next Generation Electrochemistry](#) (NGenE) took place at the University of Illinois at Chicago (UIC), June 3-7, 2019. During NGenE 2019, 37 advanced graduate students and postdocs and 9 world-renowned experts gathered to discuss the research frontiers in electrochemistry. Lectures by the NGenE faculty provided a high-level overview of the current body of knowledge, which they used to highlight critical gaps preventing transformative advances. The specific focus of the lectures spanned applications of electrochemistry in a variety of scientific fields, from batteries to the detection of neurological processes. The overarching message to the students was that solving certain fundamental questions could impact a notable number of very diverse fields, thus creating opportunities for cross-pollination of approaches between fields. The lectures also discussed the most modern approaches to understand electrochemistry, which were complemented with demonstrations of cutting-edge tools such as UIC's *in situ* electron microscopy, and a one-day visit to facilities at Argonne National Laboratory. During the week, the participants were able to network through a combination of social events, a discussion of careers in electrochemistry and a poster session. Grouped in teams, the students were tasked to develop a document and a presentation laying out what they perceived as the most crucial question facing future generations of electrochemists. The organizing team is already working toward and looking forward to NGenE 2020, which will take place again at UIC, from June 1st to 5th, 2020. The organizing team continues to seek input from the community to shape the critical features of our program, focusing on fundamental aspects of electrochemical science. The program director can be reached at jcabana@uic.edu.