



Cornell High Energy Synchrotron Source

81st Pittsburgh Diffraction Conference

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September 21st - 23rd, 2024, 81st Pittsburgh Diffraction Conference

The annual Pittsburgh Diffraction Conference will be hosted by the Cornell High Energy Synchrotron Source (CHESS) at Cornell University.

The conference will discuss progress in fundamental and applied diffraction and crystallographic research, ranging from materials discovery for functional devices to targeting viruses for drug development.

Tentative Agenda

The conference will commence with an interactive panel discussion focused on the scientific demands driving advances and innovations at light sources, as well as the future of these sources. The scientific sessions will be divided into biological sciences and materials sciences, accompanied by various social and networking activities for all attendees. Highlights include materials science sessions on sustainable materials for the future, high energy diffraction microscopy, diffuse scattering, and scattering in high magnetic fields, plus more! Returning by popular demand are sessions on high-pressure applications in both materials and biological sciences, alongside structure-based drug design for biological sciences. Additional biological sessions will cover membrane proteins, serial and multi-crystal crystallography, and metalloproteins, and others! We are also excited to feature a Young Investigator Platform showcasing the work of students and postdocs.

Workshops

Two workshops will preface the conference – registration to open soon!

A Protein Crystallization Workshop prior to the conference (Sept 20, 2024, limited availability)!

A GSAS-II Workshop prior to the conference (Sept 20, 2024, limited availability)!

Awards

The Sidhu Award honors outstanding early-career scientists in crystallography and diffraction, presented biennially or triennially at the Pittsburgh Diffraction Conference with a \$2000 cash prize. Named after Professor Surain S. Sidhu, a pioneer in neutron diffraction, this award is open to those within six years of earning their Ph.D. Nominations, due by July 19th, 2024, must be submitted by a Society member and include the candidate's educational background, thesis details, publications, two recommendation letters, and a CV. Submissions should be sent as a PDF to Simone Brixius-Anderko (SIB51@pitt.edu).

The Chung Soo Yoo award, established by the Pittsburgh Diffraction Society to honor Dr. Yoo's memory, will give \$400 cash prizes to the graduate students who best present their poster in the fields of materials and biological research.

Registration

Registration will be open until August 31st, 2024. We also highly encourage submissions of abstracts for posters.

Please register here: <https://cvent.me/kZd5eK>