

# U.S. National Committee for Crystallography

## Annual report of key activities for 2021

The US National Committee for Crystallography interfaces the National Academies of Science and Engineering (the U.S. adhering body) to the International Union of Crystallography and serves to promote all aspects of crystallographic science and education.

- Through the generous support of committed corporate sponsors (Bruker, MiTeGen, Rigaku, Thermo Fisher Scientific), the USNC/Cr paid 15,000 CHF (~\$18,000 USD) in **annual dues to the International Union of Crystallography (IUCr)** to secure the highest level of adherence for the U.S. as one of 53 member nations. Of the 370 members and consultants of the IUCr's scientific commissions and 170 editors/co-editors of IUCr journals, over 75 are US scientists. This involvement is only possible through adherence to the IUCr.
- **Funded by a \$25k grant from NIST**, the USNC/Cr has organized a **four-week Workshop Series on Crystallographic Databases** (scheduled for March/April 2022), in partnership with scientists from 8 crystallographic database teams (COD, CSD, EMDB, ICSD, ICDD, IRRMC, PDB, SBGrid).
- After a year of intensive bid preparations, the USNC/Cr, the Canadian National Committee for Crystallography, and the American Crystallographic Association jointly **competed for and won the opportunity to host the 2026 IUCr Congress** in Calgary. The vote was held at the IUCr General Assembly in Prague. This is the first Congress we have hosted since the 1996 Congress in Seattle.
- The USNC/Cr sent a delegation to the 25<sup>th</sup> IUCr General Assembly in Prague, Czech Republic, where **Thomas Proffen from Oak Ridge National Laboratory was elected to a six-year term on the IUCr Executive Committee**, and many U.S. scientists were seated on IUCr commissions. At this meeting, Marvin Hackert (U. Texas, Austin) finished 12 years of continuous service on the IUCr EC, where he served as Member, President, and Immediate Past President. During this time, he served as the IUCr representative to the USNC/Cr.
- The USNC/Cr **initiated the formation of the American Association for the Advancement of Powder Diffraction (AAAPD)**, which seeks to establish a coherent voice for the diverse powder diffraction research community, and is led by former USNC/Cr officers, Cora Lind-Kovacs and Claudia Rawn.
- The USNC/Cr conducted an annual **assessment of the progress and development of national scattering and microscopy facilities and crystallographic database resources**.
- The USNC/Cr **created a Public Relations subcommittee** to “promote the technological and societal impacts of crystallographic/structural science to the broader scientific community, leaders in government and industry, and the general public”.
- Created an independent **website (<https://usnccryst.org>) and social media channels** in order to better communicate our mission and activities.