

Small Molecules SIG Report
Wednesday, July 29, 2015
Sheraton Hotel Downtown, Room: Salon 5/6

Chair: Christine Beavers
Chair-Elect: Yulia Sevryugina
Secretary: Louise Dawe

2015 Meeting Activities: Four sessions were proposed by the Small Molecules SIG last year in Albuquerque, and all four proceeded as proposed:

- 2.2.3: “How I Spent My Summer Vacation, Tales from a summer School.” Chaired by Amy Sarjeant and possibly co-chaired by John Lee. Half-day session.
 - This session was well attended, but speakers were limited to ACA summer school alumni. Would be best if repeated with attendees from other crystallographic schools, i.e., National Neutron & X-Ray school, Durham, Erice, etc. Tentatively planned to propose again next year for 2017.
- 2.1.2: “Crystal Engineering: Form and Function” chaired by Peter Wood and Tomislav Friscic – Joint with Industrial SIG and to be a full day session.
 - Very well attended session, which will be revisited in 2016
- 4.2.2: “Cool Structures” chaired by Allen Oliver and one of the YSSIG volunteers. Half day session.
 - Perennial favorite to occur this afternoon.
- 3.2.1 & 4.1.4: “Important Science from Small Molecules” chaired by Larry Falvello.
 - Half day session, which was so oversubscribed, that it was expanded to a full day. Well attended.

2016 Meeting Plans: The Small Molecule SIG is proposing eight sessions for 2016:

Cool Structures – Xiaoping Wang with Karah Knope

Things we no longer need to know – topics would be orientation matrix, Patterson map, direct methods, etc... Chaired by Larry Falvello, and Carla Slebodnick and/or Charlotte Stern

● Diffuse scattering from single crystals –Chaired by Jim Britten (It was also proposed that this could be a session this year, and a transactions symposium for next year.)

Minerological Crystallography with Nichole Valdez and Martin Kunz as co-chairs. Emphasized that “Single Crystal” needs to be in the description.

Structure Property Relationships from *in-situ* Experiments Chaired by Pete Wood & Christine Beavers

High Pressure Crystallography and Small Molecules – Chaired by Yulia Sevryugina and a YSSIG co-chair (emphasized that this should be single crystal techniques/ molecular in nature.)

Advances in Supramolecular Chemistry full day session, chaired by Kraig Wheeler & Heba Abourahma

Adventures in Phase changes – Kamran Ghiassi and Jim Fettinger

The Small Molecule SIG is co-sponsoring :

Engaging Undergraduates with Crystallographic Research – Co-chaired by Joe Tanski and Rachel Powers. Split into two sessions – a second on pedagogy, chaired by Kraig Wheeler.

Education session and already has support from BioMac, CEC and GIG

Standard Practices in crystallography: refinement and validation (full day). GIG

Other Notes:

Danielle Gray volunteers as a candidate for Secretary. A nominating committee was formed to elucidate candidates for Chair-Elect, with Charlotte Stern volunteering for the third member.

The Small Molecule Student Etter Lecture Award winner is Karina M. Heffernan, from Virginia Tech. Her talk will be given today in session 4.2.2, Cool Structures.

General consensus of the members in attendance was disappointment in the cancellation of the High Pressure Workshop, and hopes that it will be proposed again.

Small Molecules members are still concerned about conference costs, especially when it impacts the attendance of students, who are the association's future. Suggestions were made of modernizing the Travel Grant application process, and better publicizing the availability of this funding.