

## Special Interest Group Service Crystallography, Annual Report 2014

The officers for the General Interest Group (GIG) for the 2014 calendar year are:

Chair: Peter Mueller (MIT)

Chair Elect: Bruce Noll (Bruker-AXS)

Secretary: Stacey Smith; through 2015 (Brigham Young University)

There were 23 Service SIG members present at the Business Meeting, held on Tuesday, 05/27/2014 at 12:00 p.m.

At the 2014 meeting in Albuquerque, the Service SIG sponsored or co-sponsored the following five sessions:

- 2.2.1: Engaging Undergraduate Students with X-ray Crystallography: Curriculum Development Undergraduate Research, Equipment Acquisition and Strategies for Faculty Success (educational session) Chaired by Kraig Wheeler and Roger Rowlett.
- 3.2.2: Structural Studies of Radioelements, chaired by Paul Forster and Alice Smith.
- 3.2.3: Computational Chemical & Biological Crystallography: Complimentary Methods Bridging the Divide, chaired by Louise Dawe and Jason Mercer.
- 4.1.15: Cool Structures, chaired by Shao-Liang Zheng.
- 3.3.1: Would you publish this? [cancelled]

For the 2015 meeting in Philadelphia, the Service SIG wants to propose one full-day session and four or five half-day sessions:

- Standard Practices in Crystallography: I Data Collection Strategies (Chair: Peter Mueller). This full-day session would be in collaboration with the Data Standards and Computing Committee and would be the first of a series of sessions under the title “Standard Practices in Crystallography”. Furthermore, the session would be co-sponsored by the General Interest Group and the Continuing Education Committee and would be an educational session for which the “one-scientist-one-abstract dogma” does not apply. Co-sponsorship from the BioMac SIG will also be sought. The first half of the session could focus on more traditional or standard cases, the second half could address more exotic situations, such as Detecting Systematic Errors (suggested by David Rae; see below) and possibly other non-standard aspects of data collection. Another possibility is to have one half of the session focus on macromolecular aspects, the other on small molecule cases.
- Tricks of the trade: How to get more out of your in-house powder diffractometer (Chair: Curt Haltiwanger?). Alternative title suggested by Fred Hollander: “From Fingerprint to Full ID”. This half-day session would be in collaboration with the Industrial SIG, the General Interest Group and the Continuing Education Committee and would be an educational session for which the “one-scientist-one-abstract dogma” does not apply.
- In the Service of Science (Chair: Christine Beavers). Half day session co-sponsored by Light Source SIG and BioMac SIG. The intended scope is to describe the crystallographic services widely available to scientists (special emphasis on those at national labs) and how these services have been incorporated into important science. Presentations may thus discuss topics ranging from beamline mail-in programs to specific projects which highlight the crystallographic services incorporated and how they were crucial/beneficial.

- Publication Practices (Chair: Larry Falvello). Half day session.
- Detecting Systematic Errors. David Rae proposed this half-day session, describing the scope as including the detection of polymorphism, twinning, phase transitions, *etc.* It was suggested that this topic be enveloped by the ‘Crystal Engineering’ session likely to be proposed by the Industrial SIG or the ‘Data Collection Strategies’ session.
- Would you Publish This? (Chair Louise Dawe). Evening Session.

Candidates for Chair Elect 2015 are:

Brandon Mercado (Yale): [brandon.mercado@yale.edu](mailto:brandon.mercado@yale.edu)

Vic Young (University of Minnesota): [vyoung@umn.edu](mailto:vyoung@umn.edu)

The Chair made the SIG aware of Martha Teeter’s email about encouraging membership through more educationally-focused sessions that will attract novice crystallographers. One of the members present pointed out that selecting topics more relevant/attractive to industrial users could be another way to attract a new subset of attendees and members.

Furthermore, the Chair of the Service SIG encouraged SIG members to submit articles to the newly announced Structural Dynamics journal. He reminded the SIG that the first 50 articles accepted will be published for free and ACA members will thereafter receive lowered prices for publication.

Respectfully submitted,  
Peter Mueller, Chair