

Advanced AUC Symposium

A symposium on the Science and Application of Analytical Ultracentrifugation

“We can do better!”

The Advanced AUC Workshop was started by David Yphantis at the University of Connecticut in 1992. As in past years, the final day and culmination of the workshop is a day of symposium talks and posters on advanced topics and current research. The Symposium is included in the workshop registration and is also open to the general community. The purpose of the Symposium is to share data, instrument and software advances, discuss ideas and build community. The title phrase, “We can do better!” comes from David Yphantis himself, attributed in the journal article *“Spinning with Dave: David Yphantis's contributions to ultracentrifugation.”*

In an era when PIs typically no longer do bench science, each of us still carries on the tradition of being in the lab, at the bench, discussing and teaching. With a smile and sometimes a wink we all repeat the phrase, ‘We can do better!’ at every available opportunity, and hope that someone else is listening. Thanks, Dave.¹

¹ Correia JJ, Johnson ML, Laue T, Stafford WF, Williams RC. *Spinning with Dave: David Yphantis's contributions to ultracentrifugation. Biophys Chem.* 2004 Mar 1;108(1-3):23-42. PubMed PMID: 15043919.

Location



Crowne Plaza Hotel
18 Old Ridgebury Road
Danbury, CT 06810

Date



Wednesday
October 19, 2016
8:00 a.m. – 5:00 p.m.

Program

- 8:00 – 8:15 Arrival & Sign In
- 8:15 – 8:30 Welcome: David Hayes
- Session 1 AUC: Expanding the Instrument Application Space: Diverse Media & Molecules
- 8:30 – 9:30 James Cole & Michael Brenowitz: Jim & Mike’s most excellent adventures with RNA & DNA
- 9:30 – 10:00 Jack Correia: Finding pairwise interaction parameter matrices for antibodies in serum
- 10:00 – 10:30 Walter Stafford: Global Lamm equation fitting to multiwavelength data sets
- 10:30 – 10:45 Break
- 10:45 – 11:45 Renwick Dobson: Bacterial sialic acid degradation: plasma membrane import & gene regulation
- 12:00 – 1:15 Lunch & Learn provided by Beckman Coulter
- Session 2: Instrument Advances
- 1:15 – 2:15 Tom Laue & David Hayes: The need to advance: sources of error in AUC experiments & proposal to use the NIST mab for suitability testing & tracking
- 2:15 – 3:30 Borries Demeler: Simultaneous identification of spectral properties & sizes of multiple particles in solution with subnanometer resolution-includes pilot data
- 3:30 – 3:45 Break
- 3:30 – 5:00 Panel discussion moderated by James Cole: Workflow & analysis guidelines & instrument capabilities & software development

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Information About Speakers

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