

Advanced Analytical Ultracentrifugation Workshop: *Theory and Practice* October 16 – 19, 2016

Boehringer Ingelheim Pharmaceuticals Inc.
IMBD Department
175 Briar Ridge Road
Ridgefield, CT 06877

Previous to Workshop

Instructions for downloading software packages and Workshop participants install SEDANAL, DCDT+, WinNonLin, SEDVIEW, and SEDFIT on their laptop computers.

Sunday, October 16: Reception held at Crowne Plaza Hotel

Afternoon	Crowne Plaza Hotel, Danbury, CT	Arrival
5:00 PM	Crowne Plaza Hotel, Danbury, CT	Reception and Registration
6:00 PM	Crowne Plaza Hotel, Danbury, CT	Reception Starts, meal serving at 7PM
8:00 PM	Crowne Plaza Hotel, Danbury, CT	History of AUC Overview – Tom Laue

Monday, October 17: Workshop held at Boehringer Ingelheim R&D Building

8:30 – 9:00 AM	Boehringer Ingelheim R&D Building Lobby	Gather and Security Card Preparation (please have photo ID available)
9:00 – 9:30 AM	R&D room 2538	Scheduling Overview, Security and Lab Safety Introduction
9:30 – 10:30 AM	R&D room 2538	Theoretical Review
10:30 – 12:00 noon	R&D room 2538 R&D lab 2556	Practicum, instrument and software
12:00 – 1:00 PM	R&D room 8410	Lunch
1:00 – 2:20 PM	R&D room 2538	What is AUC good for? Panel.
2:30 – 3:15 PM	R&D room 2538 R&D lab 2556	Experiment Design
3:30 – 4:20 PM	R&D room 2538	Panel 2: An AUC Experiment Planning Workflow
4:30 – 5:20	R&D room 2538	SV-AUC as orthogonal aggregate QC for biopharmaceuticals.
5:20 – 5:30	R&D lobby	Security Check Out:
6:30	Shuttle or ride available from Crowne Plaza	Student Optional Dinner
7:00 – 10:00	Maggie McFly's Brookfield	Student Optional Dinner

Tuesday October 18: Workshop held at Boehringer Ingelheim R&D Building

8:30 – 9:00 AM	Boehringer Ingelheim R&D Building Lobby	Gather and Security Card Preparation (please have photo ID available)
9:00 – 10:20 AM	R&D room 2538	Walter Stafford, SEDANAL
10:20 – 10:50 AM	R&D lab 2556	Distribute data from Previous days experiments
10:50 – 11:45 noon	R&D room 2538	sedimentation equilibrium

11:45 – 12:45 PM	R&D 8410	Lunch
1:00 – 1:50 PM	R&D room 2538	Tom Laue: Fluorescence Detection System AUC (NUTS and BOLTS)
2:00 – 3:00 PM	R&D room 2538	Curve fitting hard samples: isodesmic, high concentration, Johnston Ogston effect, serum
3:00 – 5:30 PM	R&D room 2538	Open Workshop on Data Analysis, Bring your own data or sample data provided
5:30 – 6:00 PM	R&D lobby	End of Onsite Workshop

Wednesday October 19: Symposium held at Crowne Plaza Hotel

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
10:40 – 11:30	Renwick Dobson: Bacterial sialic acid degradation: plasma membrane import & gene regulation
11:30 – 12:00	Poster Session and Networking time
12:00 – 1:00	Lunch & Learn provided by Beckman Coulter
1:00 – 1:30	Poster Session and Networking time
	Session 2: Instrument Advances
1:30 – 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 da
3:30 – 3:45	Break
3:30 – 5:00	Panel discussion moderated by James Cole: Workflow & analysis guidelines & instrument capabilities & software development
5:00	END of Symposium and Event