

2010 ADVANCED
ANALYTICAL ULTRACENTRIFUGATION WORKSHOP

Monday, May 17, 2010

8:00 - 8:45 Continental breakfast (main conference room: 3rd floor)

8:45 - 9:00 Welcome and Goals of the Workshop

Overview and Basic Theory of Sedimentation

9:00 - 9:45 *Macromolecules in solution* -Tom Laue

9:45 - 10:30 *Basic theory of sedimentation velocity* - Walter Stafford

10:30 - 11:00 **Break** - beverages and snacks

11:00 - 11:45 *Analysis of sedimentation velocity data* - John Philo

11:45 - 12:30 *Sedimentation equilibrium: theory and analysis* - Tom Laue

Lunch 12:30 - 13:30 Lunch in cafeteria and group photo

Experimental design and strategies

13:30 - 14:00 Experimental design and sample preparation

14:00 - 14:30 Cell assembly, filling and other tricks of the trade

14:30 - 15:00 **Break** - beverages and snacks

15:00 - 15:30 Machine set up and alignment issues

15:30 - 15:45 "*Real-time, on-line, time-derivative analysis with SEDVIEW*"

16:00 - 17:15 Optical Systems - Tom Laue

Workshop reception

17:30 Cocktails and Dinner.

Evening Presentations

19:00 - 20:30 Participant presentations

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Tuesday, May 18, 2010

8:00 - 8:45 Continental breakfast (main conference room)

8:45 - 9:10 Introduction and overview of the day's schedule.

Hands on Data Analysis

9:00 -10:30 Group 1: Sedimentation equilibrium data hetero-associations - Jim Cole
Group 2: Sedimentation equilibrium, self-associations - Tom Laue

10:30 - 11:00 **Break** - beverages and snacks

11:00 -12:30 Group 1: Sedimentation equilibrium data, hetero-associations- Jim Cole,
Group 2: Sedimentation equilibrium, self-associations - Tom Laue

Lunch 12:30 - 13:30 Lunch in cafeteria

Hands on Data Analysis

13:30 -15:00 Group 1: Sedimentation equilibrium, self-associations- Tom Laue
Group 2: Sedimentation equilibrium, hetero-associations - Jim Cole

15:00-15:30 **Break** - beverages and snacks

15:30 -17:00 Group 1: Sedimentation equilibrium, self-associations- Tom Laue
Group 2: Sedimentation equilibrium, hetero-associations - Jim Cole

Dinner

17:30 Beer and Pizza in the cafeteria

Evening Lectures

18:30 - 19:15 Jim Cole. "*Regulation of PKR by Viral RNAs.*"

19:15 - 20:00 Jack Correia. "*The Use of Simulations in Understanding AUC Analysis Methods.*"

2010 ADVANCED
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Wednesday, May 19, 2010

8:00 - 8:45 Continental breakfast (main conference room)

8:45 - 9:00 Introduction and overview of the day's schedule.

Sedimentation Velocity Analysis Theory and Methods

9:00 - 10:15 *Sedimentation velocity analysis of mixtures*-John Philo

10:15 - 10:45 **Break** - beverages and snacks

10:45 - 12:00 *Sedimentation velocity analysis of interacting systems*- Walter Stafford

Lunch

12:00 - 13:15 Lunch in the cafeteria

Hands on Data Analysis

13:15 - 14:30 Group 1: Sedimentation velocity data analysis - Walter Stafford
Group 2: Sedimentation velocity data analysis - John Philo

14:30 - 15:00 **Break** - beverages and snacks

15:00 -17:00 Group 1: Sedimentation velocity data analysis- cont'd - Walter Stafford
Group 2: Sedimentation velocity data analysis- cont'd - John Philo

Workshop Banquet

18:00 Cocktails and Dinner.

Keynote Lecture

19:30 20:30 "New Insights into Biological Fluids from Fluorescence Detected Sedimentation" Tom Laue

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Thursday, May 20, 2010

8:00 - 9:00 Continental breakfast (main conference room)

9:00 - 9:15 Introduction and overview of the day's schedule.

Hands on Data Analysis

9:15 - 10:30 Group 2: Sedimentation velocity data - Walter Stafford
Group 1: Sedimentation velocity data - John Philo

10:30 - 11:00 **Break** - beverages and snacks

11:00 - 12:40 Group 2: Sedimentation velocity data - cont'd - Walter Stafford
Group 1: Sedimentation velocity data - cont'd - John Philo

Lunch

12:45 - 13:30 Lunch in cafeteria

General Discussion - experimental strategies

13:30- 14:45 Workflow, case studies, etc... - staff

14:45 - 15:00 Farewell

Please return your evaluation forms before you leave. We depend on these for improving the workshop.