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Analytical ultracentrifugation Research Laboratory
Boston Biomedical Research Institute
64 Grove Street
Watertown, Massachusetts

18th USA Advanced Analytical Ultracentrifugation Workshop

Theory and Practice
May 17-20, 2010

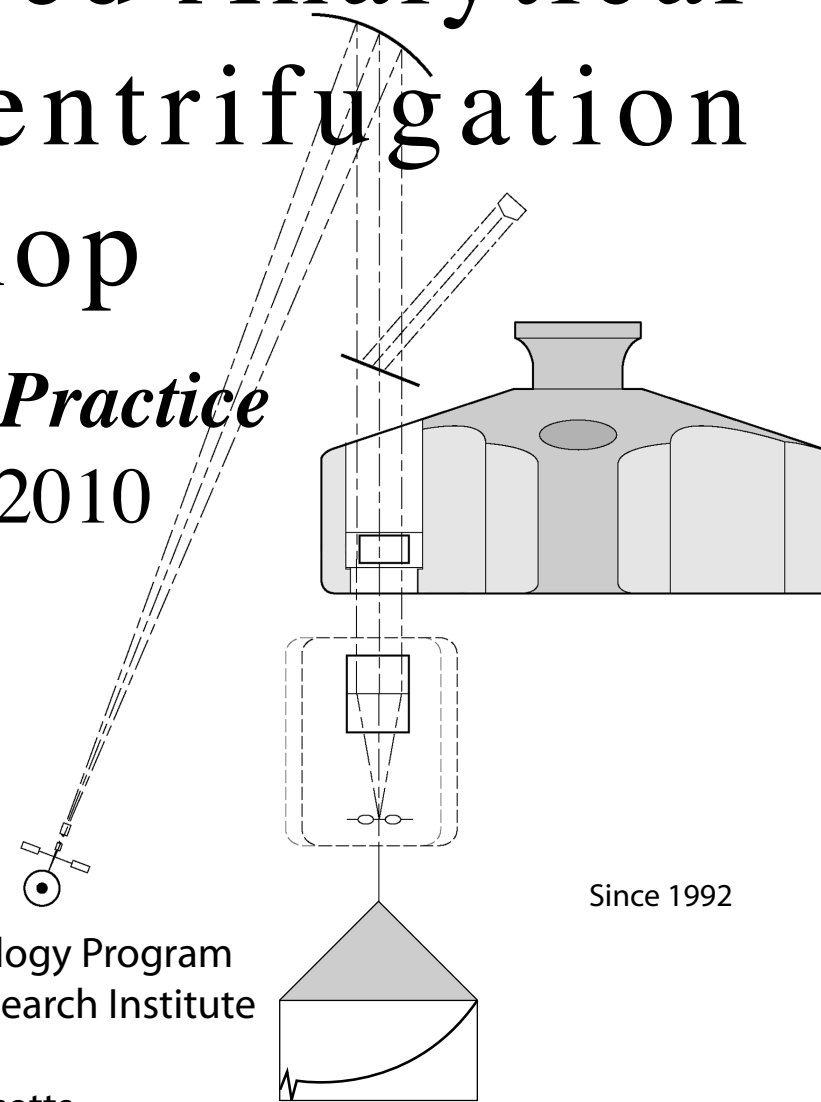


Boston Biomedical Research Institute

Advanced Analytical Ultracentrifugation Workshop

Theory and Practice
May 17-20, 2010

Analytical
Ultracentrifugation
Research Laboratory
Integrative Protein Biology Program
Boston Biomedical Research Institute
64 Grove Street
Watertown, Massachusetts



- ❖ Interact with experts in analytical ultracentrifugation.
- ❖ Learn to characterize macromolecular interactions and complex mixtures.
- ❖ Receive training in the latest experimental approaches and data analysis methods.
- ❖ Discuss advanced analytical ultracentrifugation topics and specialized methods.
- ❖ Bring your own data for on-site analysis and consultation.

18th USA Advanced Analytical Ultracentrifugation Workshop

May 17-20, 2010: Theory and Practice

DESCRIPTION:

Analytical Ultracentrifugation (AUC) is a powerful method for the determination of absolute molar mass, shape and for the analysis of reversible interactions and irreversible aggregation formation involving macromolecules in solution. A combination of modern instrumentation, fast computers and new data analysis algorithms has led to an ever increasing use of AUC in basic research, process development and biotherapeutic formulations.

SCOPE:

This is an **advanced** AUC workshop and is appropriate for academic and industrial scientists who are already familiar with basic experimental and data analysis methods.

PROGRAM:

Fundamentals:

- ❖ Basic theory and overview
- ❖ Sedimentation velocity
- ❖ Sedimentation equilibrium

Practical Analytical Ultracentrifugation and Demonstrations:

- ❖ Experimental design and sample preparation
- ❖ Use of specialized centrifuge cells
- ❖ Operation of the Beckman-Coulter XL-I instrument
- ❖ Interference optics: adjustment and optimization

Data Analysis and Interpretation:

- ❖ Sedimentation Velocity:
 - Modeling by Lamm equation solutions
 - Time derivative methods
 - Continuous distributions
 - Analysis of mixtures and detection of aggregates
 - Analysis of interacting systems
- ❖ Sedimentation Equilibrium:
 - Self-association and hetero-association
 - Thermodynamic nonideality
 - Global multisignal analysis

Advanced topics and specialized approaches:

- ❖ To be announced (visit web site for updates)
<http://aucrl.bbri.org>
- ❖ Evaluation of participant data:
 - On-site data analysis - bring your own data.

INSTRUCTORS:

Walter Stafford, PhD, Senior Scientist, and Dir.
Analytical Ultracentrifugation Research Lab.
Integrative Protein Biology Program
Boston Biomedical Research Institute
Watertown, MA

Thomas Laue, PhD, Professor
Department of Biochemistry & Molecular Biology
University of New Hampshire, Durham, NH

John Philo, PhD, Dir. of Biophysical Chemistry
Alliance Protein Laboratories
Thousand Oaks, CA

James Cole, PhD, Associate Professor
Department of Molecular & Cell Biology
University of Connecticut, Storrs, CT

Jack Correia, PhD, Professor
Department of Biochemistry
University of Mississippi Medical Center
Jackson, MS

EunHee Lee, PhD, Research Associate
Analytical Ultracentrifugation Research Lab.
Boston Biomedical Research Institute

Peter J. Sherwood, Jr., PhD
Analytical Ultracentrifugation Research Lab.
Boston Biomedical Research Institute
Watertown, MA

Contact information:

- ❖ Inquiries, Payments and Fellowship applications and course logistics:
 - <aucrl-workshop at bbri.org>: 617-658-7808
 - Website: <http://aucrl.bbri.org/>

Registration:

The registration fee of \$2000 (or \$1400 for registrants of not-for-profit organizations) includes all costs of instruction, materials, software, parking, refreshments, lunches and dinners. The fee does *not* include hotel accommodations or travel. A block of rooms at a nearby hotel will be available at a discount. **Registration payment is due by April 19, 2010.**

Pre-registration is required. Emailed registration forms are preferred but fax works, too: Fax 617-972-1753. Generally, only **two** registrants from each laboratory can be accepted. However, if more wish to attend and there are vacancies we will try to accommodate. Please send their names and telephone numbers in order of priority.

A confirmation letter will include information on housing, airport transportation and an invoice for the registration fee,

Workshop Registration Form

👉 **Workshop space is limited to 16 participants** 👈
(first-come, first-served)

Email to register@bbri.org or Fax to (617) 972-1753

Advanced Analytical Ultracentrifugation: Theory and Practice May 17-20, 2010

Analytical Ultracentrifugation Research Laboratory
Integrative Protein Biology Program
Boston Biomedical Research Institute
64 Grove Street
Watertown, MA 02472-2829

Please print clearly:

Name _____
Name on Badge _____
Phone (Day) _____
Title _____
Organization _____
Organization Address:
Street _____
City _____ State _____ Zip _____
Fax _____
E-mail _____

Boston Biomedical Research Institute supports all state and federal laws that promote equal opportunity and prohibit discrimination.
All Institute facilities used for this workshop are accessible to the handicapped.

Fellowships:

A limited number of fellowships (registration fees only) are available to qualified graduate and post-doctoral students. Call or email for a fellowship application form. 617-658-7780
Deadline for accepting fellowship applications is April 12, 2010.

Refunds and Cancellations:

Refunds will be processed if the registration is cancelled **two weeks** prior to the start of the program. Registrants who do not attend and do not cancel will be subject to the complete fee.

Participant substitutions may be made with prior approval of the teaching staff.



Registration Fee (check one):

- \$2000
- \$1400 (Not-for-profit organization)

Method of Payment (once accepted):

Please note: Registration payment must be received by April 12, 2010
DO NOT PAY UNTIL YOU HAVE RECEIVED AN ACCEPTANCE LETTER

Pay by Check

or

Pay by Credit Card or PayPal on the Workshop
Website at <http://aucrl.bbri.org/>

Travel: BBRI is located in Watertown, MA and is nine miles west of Boston and is a 35 minute taxi ride from Boston's Logan International airport. It can also be reached from the airport on the MTA via the Silver Line, Blue Line and Red Line with 2 changes.