



2017 UD Biophysical Characterization Workshop

*Co-sponsored by the Center for Biomanufacturing Science & Technology
and the Biomolecular Interaction Technologies Center*

Registration: <http://www.udel.edu/biophys-workshop>

Bursaries are available to offset the cost of registration for graduate students. Please email cjr@udel.edu for enquiries about student bursaries.

Location: Colburn Laboratory, University of Delaware, 150 Academy Street, Newark, DE 19716

Parking: Use the link below to a map showing the Academy Street parking garage (pay-per-day) which is a short walk from Colburn Laboratory. Use the address 401 Academy Street, Newark, DE 19716 for GPS or Google Map directions to the Parking Garage.

<https://goo.gl/maps/3mLA71Yisu12>

When: 6-8 June 2017

Overview: The workshop consists of short courses and small-group demonstrations of the principles and commercial technologies for characterization of protein solutions and related colloidal systems. The particular focus areas for the 2017 Workshop will be scattering, electrophoresis, and Taylor dispersion. The target audience includes industrial scientists and engineers, graduate students, and postdocs interesting in laboratory experience as well as the principles underlying these techniques. It is also ideal for those who are evaluating different technologies for use in their own laboratory. Short courses will include principles, applications, and examples relevant to the biotechnology industries, and will be taught by experts from industry and academia.

Schedule

All short-course sessions will be held on the 3rd floor of Colburn Laboratory, Rm. 366.

Laboratory sessions will be held in adjacent laboratories of Colburn Laboratory.

Attendees will be organized into smaller lab groups, with assigned laboratory cycles provided at registration so that all attendees can be cycle through all of the techniques, and different instruments for a given technique.

Day 1, 6 June

2nd Floor Lobby, Colburn Laboratory

8:15—8:50 a.m.

Registration

Rm. 366, 3rd Floor, Colburn Laboratory

- 8:50—9:00 a.m. Welcome and opening remarks (Chris Roberts, U. Delaware)
9:00—10:30 a.m. Short course: *principles of electrophoresis* (Tom Laue, U. New Hampshire)
10:30—10:45 a.m. *Break*
10:45 a.m.—12:15 p.m. Short course: *principles of static light scattering* (Yun Liu, U. Delaware, NIST)

2nd Floor Lobby, Colburn Laboratory

- 12:15—1:15 p.m. *Lunch*

Rm. 366, 3rd Floor, Colburn Laboratory

- 1:30—3:00 p.m. Short course: *principles of dynamic light scattering* (Kevin Mattison, Malvern Instruments)

Lab Room # TBD, Colburn Laboratory

- 3:15—4:30 p.m. Lab Session #1: specific lab groups TBD
4:45—6:00 p.m. Lab Session #2: specific lab groups TBD

Day 2, 7 June

Rm. 366, 3rd Floor, Colburn Laboratory

- 9:00 a.m.—10:30 a.m. Short course: *Taylor dispersion* (Matt McGann, Malvern Instruments)
10:30—10:45 a.m. *Break*

Lab Room # TBD, Colburn Laboratory

- 10:45 a.m.—12:15 p.m. Lab Session #3: specific lab groups TBD

2nd Floor Lobby, Colburn Laboratory

- 12:15—1:15 p.m. *Lunch*

Lab Room # TBD, Colburn Laboratory

- 1:30—3:00 p.m. Lab Session #4: specific lab groups TBD
3:00—4:30 p.m. Lab Session #5: specific lab groups TBD
4:30—6:00 p.m. Lab Session #6: specific lab groups TBD

Day 3, 8 June

Rm. 366, 3rd Floor, Colburn Laboratory

- 9:00—10:15 a.m. Case study examples (Eric Seymour, Wyatt Technology)
10:15—10:30 a.m. *Break*
10:30—11:45 a.m. Case study examples (Chris Roberts, U. Delaware)

2nd Floor Lobby, Colburn Laboratory

- 12:00—12:30 p.m. *Lunch*

Rm. 366, 3rd Floor, Colburn Laboratory

- 12:30—2:00 p.m. Open Lab Period in parallel with Roundtable Discussion with Instructors
2:00—2:15 p.m. *Break*
2:15—3:45 p.m. Open Lab Period in parallel with Roundtable Discussion with Instructors
3:45 p.m. Close of Workshop

For additional information on registration and questions about the Workshop, please contact Chris Roberts (cjr@udel.edu) or Kristi Halberg (khalberg@udel.edu)