

25th International Analytical Ultracentrifuge Conference and Workshop

Preliminary Session Schedule & Program

SUNDAY 10th July 2022

9:00 PM to 5:00 PM

Workshops (2 hr sessions, 3 breaks, incl. lunch)

MONDAY 11th July 2022

9:00 PM to 5:00 PM

Workshops (2 hr sessions, 3 breaks, incl. Lunch)

Scheduled Sessions:

Day	Session #	Time
Sunday, July 10th:	1	9:00-11:00 am
	2	11:30-13:30 pm
	3	14:30-16:30 pm
	4	17:00-19:00 pm
Monday, July 11th:	5	9:00-11:00 am
	6	11:30-13:30 pm
	7	14:30-16:30 pm
	8	17:00-19:00 pm

Topics:

Workshop leader(s)	Title	Sessions
Borries Demeler	Introduction to AUC	1
Karen Fleming, Christine Ebel, and Caroline Mas	AUC of Membrane Proteins	1, 6 (repeat)
John Philo	Confidence Limit Computation with SVEDBERG	1, 6 (repeat)
Johannes Walter	HDR-MULTIFIT – Turbidity and Particle size	1, 7 (repeat)
Patrick Fleming	Calculation of hydrodynamics with HullRad	2
Tom Laue	Fundamentals of AUC Experiment Design	2, 3 (repeat)
Borries Demeler and Amy Henrickson	Multi-wavelength AUC with UltraScan	2
Ivo Nischang	AUC of Polymers, Micelles, Nanocarriers	2, 7
Jack Correia and Walter Stafford	High Concentration AUC	3
Emre Brookes and Mattia Rocco	US-SOMO Hydrodynamic Modelling	3, 4
John Philo	Intro to SEDNTERP	3
Susumu Uchiyama	Multi-wavelength AAV Analysis with Sedfit	4
Walter Stafford and Jack Correia	Multi-Wavelength AUC with SedAnal	4

Lukas Dobler and Rose Rosenberg	Challenges of Nanoparticle Analysis with AUC	4, 5 (repeat)
Ross VerHeul and Akash Bhattacharya	Getting the most out of AUC with the Optima AUC	5
John Philo	Time-derivative Analysis with the Program DCDT+	5
Amy Henrickson and Borries Demeler	Multi-wavelength AAV Analysis with UltraScan	5
Emre Brookes and Mattia Rocco	US-SOMO Small Angle Scattering	6, 7
Alexey Savelyev, Saeed Mortezaadeh and Borries Demeler	GMP and Data Acquisition with UltraScan	6
Amy Henrickson and Borries Demeler	Multi-wavelength LNP analysis and D₂O Density Matching with UltraScan	7
<ul style="list-style-type: none"> • Karen Fleming • Alexander Bepperling • Christine Ebel • Ute Curth • John Philo • Jack Correia • Walter Stafford • Mattia Rocco • Todd Stone • Borries Demeler 	Ask the Experts!	8

6:00 PM onwards

Dining and Networking

TUESDAY 12th July 2022

7:00 AM to 5:00 PM
Lot

Excursion to Waterton Parks, Departure at Science Commons Parking

6:00 PM to 7:00 PM

Svedberg Lecture – Dr. Walter Stafford (Science Commons Atrium)

7:00 PM onwards

Conference Welcome Reception Dinner (Science Commons Atrium)

WEDNESDAY 13th July 2022

All sessions will be held in BMO Auditorium at Science Commons.

All sessions will have one 25 minutes and four 15 minutes talks.

8:00 Am to 9:00 AM

Breakfast

9:00 AM to 10:30 AM

Session 1: Emerging Biophysical Methods
 * Multi-wavelength
 * analytical buoyant density methods
 * cryo-EM applications

10:30 AM to 10:50 AM

Break

10:50 AM to 12:20 PM

Session 2: Hardware & Software Development for AUC
 * Optima AUC advances over XLA/XLI
 * Data Analysis Software advances

12:20 PM to 1:30 PM

Lunch

1:30 PM to 3:00 PM

Session 3: Complementary Biophysical Methods to AUC
 * DLS/SLS/MALS

	* SAXS/SANS
	* X-ray Crystallography/NMR/EM etc.
3:00 PM to 3:20 PM	Break
3:20 PM to 4:50 PM	Session 4: Beckman Sponsored Session
	* Customer Testimonials
	* Industry Applications of AUC
	* mRNA LNP applications
4:50 PM to 6:00 PM	Break
6:00 PM to 7:30 PM	Dining and Networking
7:30 PM to 9:30 PM	Poster session and Vendor Exhibition 1 (Science Commons Atrium)

THURSDAY 14th July 2022

All sessions will be held in BMO Auditorium at Science Commons.

All sessions will have one 25 minutes and four 15 minutes talks.

8:00 Am to 9:00 AM	Breakfast
9:00 AM to 10:30 AM	Session 5: Macromolecular Interactions I (Protein - Nucleic Acids)
	* AAV applications
10:30 AM to 10:50 AM	Break
10:50 AM to 12:20 PM	Session 6: Macromolecular Interactions II (Protein-Protein)
12:20 PM to 1:30 PM	Lunch
1:30 PM to 3:00 PM	Session 7: Membrane Proteins
3:00 PM to 3:20 PM	Break
3:20 PM to 4:50 PM	Session 8: Carbohydrates
4:50 PM to 6:00 PM	Break
6:00 PM to 7:30 PM	Dining and Networking
7:30 PM to 9:30 PM	Poster session and Vendor Exhibition 2 (Science Commons Atrium)
7:00 PM onwards	Dining and Networking

FRIDAY 15th July 2022

All sessions will be held in BMO Auditorium at Science Commons.

All sessions will have one 25 minutes and four 15 minutes talks.

8:00 Am to 9:00 AM	Breakfast
9:00 AM to 10:30 AM	Session 9: AUC applications - Nanoparticles, and Synthetic Polymers
10:30 AM to 10:50 AM	Break
10:50 AM to 12:20 PM	Panel Discussion on Emerging AUC Research and Applications
12:20 PM to 12:30 PM	Closing Remarks
12:30 PM to 1:30 PM	Lunch
1:30 PM to 2:00 PM	Business Meeting (Committee Members)
5:00 PM to ??	Social Networking Event Downtown Lethbridge