

Great Lakes Advanced Molecular Sciences: Advanced Microscopy 2024
Holland, MI
June 25-28, 2024

Tuesday, June 25

- 11 AM **Check-in**
Location: Haworth Hotel and Conference Center
- 12:00 PM **Lunch and Vendor Fair**
Location: Haworth Hotel and Conference Center
- 2:00 PM Lecture 1
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **General Introduction to Light Microscopy**
Lecturer: Dr. Melinda Frame
- 3:30 PM **Break**
- 3:45 PM Lecture 2
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **Tissue Clearing**
Lecturer: Dr. Ripa Arora
- 5:15 PM **Evening Break and Travel Time**
- 6:00 PM **Dinner/Keynote/Opening Reception**
Location: Haworth Conference Center
Keynote: Dr. Chao Zhou
Title: **Ultrahigh Speed Optical Coherence Tomography and its Biomedical Applications**

Wednesday, June 26

- 8:30 AM **Breakfast**
Location: Bioeconomy Institute
- 9:00 AM Lecture 3
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **Light Sheet and Super Resolution Microscopy**
Lecturer(s): Drs. Jennifer Peters and Eric Rentchler
- 10:30 AM **Coffee/Snack Break**

Location: Bioeconomy Institute

11:00 AM **Lecture 4**
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **Single Molecule Localization Microscopy**
Lecturer(s): Dr. Jens Schmidt, Dr. Sara Cole

12:30 PM **Lunch & Learn Sponsored by Imaris**
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **Introduction to Imaris**
Lecturer: Taylor Smith, Andor Technology Inc

1:30 PM **Labs/Demos**
Location: Bioeconomy Institute Lab 4208
Practical Session 1 Group 1: Tissue Clearing and Confocal Microscopy for Whole Organs
Practical Session 2 Group 2: STORM Nanoscopy and Single-Molecule Live Cell Imaging
Practical Session 3 Group 3: Live Cell Confocal Microscopy

5:00 PM **Evening Break and Travel Time**

6:00 PM **Dinner/Keynote/Poster Sessions**
Location: Haworth Conference Center
Keynote: Dr. Sabrina Spencer
Title: **Proliferation-quiescence-senescence decisions in single cells**

Thursday, June 27

8:30 AM **Breakfast**
Location: Bioeconomy Institute

9:00 AM **Lecture 5**
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **Confocal and 2-Photon Microscopy**
Lecturer(s): Drs. Bryan Smith and Sangbum Park

10:30 AM **Coffee/Snack Break**
Location: Bioeconomy Institute

11:00 AM **Lecture 6**
Location: Bioeconomy Institute Auditorium Room 4107
Topic: **New Innovations in Microscopy**

Lecturer(s): Dr. Zhen Qiu

12:30 PM **Lunch**

Location: Bioeconomy Institute Library Room 4105

1:30 PM **Labs/Demos**

Location: Bioeconomy Institute Lab 4208

Practical Session 1 Group 2: Tissue Clearing and Confocal Microscopy for Whole Organs

Practical Session 2 Group 3: STORM Nanoscopy and Single-Molecule Live Cell Imaging

Practical Session 3 Group 1: Live Cell Confocal Microscopy

5:00 PM **Evening Break and Travel Time**

6:00 PM **Dinner/Networking/Poster Sessions**

Location: Haworth Conference Center

Friday, June 28

8:30 AM **Breakfast**

Location: Bioeconomy Institute

9:00 AM **Labs/Demos**

Location: Bioeconomy Institute Lab 4208

Practical Session 1 Group 3: Tissue Clearing and Confocal Microscopy for Whole Organs

Practical Session 2 Group 1: STORM Nanoscopy and Single-Molecule Live Cell Imaging

Practical Session 3 Group 2: Live Cell Confocal Microscopy

Check-out and return borrowed laptop if necessary