

Virtual North American Mass Spec Summer School Session Descriptions

Tuesday, June 29

9:00-9:15 Welcome (Joshua Coon)

Overview of activities and opportunities offered during the 2021 North American Mass Spec Summer School.

9:15-11:00 Mass Analyzers lecture and demo (Scott McLuckey)

11:00-12:00 Ionization (Rachel Loo)

1:00-2:00 Tandem MS (Joshua Coon)

2:00-3:00 Separations (Susan Olesik)

3:00-4:30 Telling your Science Story (Holly Walter Kerby)

Learn to apply a “story arc” to your research problems to better communicate your outcomes and ideas to both a scientific and non-scientific audience.

4:30-5:30 Publishing your Science (Shawna Buttery)

During this lecture learn about a new platform that provides usable protocols for researchers across biology and hear about opportunities for graduate students and post-docs to act as reviewers.

Wednesday, June 30

8:00-9:00 Q&A Clinic

In this session, a panel of experts will answer pre-submitted participant questions related to data acquisition.

9:00-10:00 Data Acquisition Methods (Jesper Velgaard Olsen)

10:00-11:00 Data Analysis and interpretation lecture (Jürgen Cox)

11:00-12:00 Data Analysis and interpretation workshop (Jürgen Cox)

1:00-2:00 Quantification (Lingjun Li)

This lecture will give an overview of the relative and absolute quantification of proteins, including metabolic, chemical, isotopic, isobaric labelling, and label free methods.

2:00-3:00 Flash talks

Quick 5-minute, one-slide presentations by fellow participants covering the latest in research activities from around the world.

3:00-4:00 Experimental Design (Edward Huttlin)

4:00-5:30 Scientific Illustrations (Adam Steinberg)

In this hands-on session learn about data visualization and techniques for incorporating data into your posters and presentations.

Thursday, July 1

8:00-9:00 Q&A Clinic

In this session, a panel of experts will answer pre-submitted participant questions related to experimental design and controls.

9:00-10:00 PTMs (Evgenia Shishkova)

10:00-11:00 Research lecture (Jesper Velgaard Olsen)

11:00-12:00 Metabolomics (Jessica Prenni)

1:00-2:00 Lipidomics (John Bowden)

2:00-3:00 Top-down/Native MS (Vicki Wysocki)

3:00-4:30 Improving your Science Writing (Alicia Williams)

Hands-on writing workshop where participants will learn best-practices in scientific writing and spend time reviewing and revising scientific writing samples.

4:30-5:30 Future Technology Needs Panel Discussion (Joshua Coon and faculty)

Share your ideas of what technology is missing in the current research environment that would help advance your work. This could be techniques, protocols, instrumentation capability, etc. These can be big or small ideas, realistic or just a dream.

5:30-5:45 Closing Remarks (Joshua Coon)

Wrap up of summer school activities and plans for coming events.