

2025 Trent Conference on Mass Spectrometry

Glen House Resort

August 11-13, 2025

Monday:

Arrival 1-3 pm Check-in – most rooms will be available as of 2 pm

3 pm – as you enter the conference room, please select your dinner option.

3:00	Paul Mayer	--Welcome--
3:10	Rachel Pryce	Integrated Charged Absorbing Module Tags for MALDI MSI of Steroids in Tissue (15 min)
3:30	Dawson McLachlan	The Separation of Chiral Pharmaceuticals using Mass Spectrometry Techniques for Environmental Sampling (15 min)
3:50	Yingxi Li	Proteomic Analysis of Plasma and Heart Tissue in Common Marmoset Exposed to Methylmercury (15 min)
4:10	Miranda Lockley	Ambient Ionization Mass Spectrometry for Screening of Enzyme-Facilitated Plastic Depolymerization (15 min)
4:30	Paul Mayer	Tutorial: Where does my mass spectrum come from? (30 min)

Dinner 5:30 - 6:30 pm Waters

6:45 pm	Zoran Minic	Tutorial: Nanoscale Liquid Chromatography and Development of Single-Cell Omics Analysis (30 min)
7:20	Karlye Rudd	Evaluating the Effects of Viral Sensitizers (VSEs) on the Lipid Dynamics/Profiling of Lentivirus (LV) Production (15 min)
7:40	Alex Listigovers	Native ESI-MS of Unstructured Pro-Ala-Ser (PAS) Tails to Examine Fundamentals of Chain Ejection Model (CEM) and Asymmetric Charge Partitioning (15 min)
8:00	Samarth Ganjoo	Mass Spectrometry Imaging of the Gut Microbiome (15 min)
8:20	5 min talks	
	Yassin Bouhid	Enhanced Proteomic Profiling of Glioblastoma U138-Derived Extracellular Vesicles Using Data-Independent Acquisition Mass Spectrometry
	Justine Mathilde Gatein	Boronic acid mass tags for the specific detection and imaging of diol compounds
	Noah Rabuka	Which roast to get you up from your roost?

Tuesday:

9:00 am	Griffin Loeb sack	The Product of NH ₃ loss from Gas Phase Protonated Tyrosine (15 min)
9:20	Peace Emele	Exploring the pyrolysis of aldehydes (15 min)
9:40	Maggy Lépine	Proteome characterization from vitreous humor and tear biofluids (15 min)
10:00	Jacob Clarke	LC-MS FADe: Unlocking Fatty Acid Profiles Through Untargeted Lipidomics Data (15 min)
10:20		--Coffee Break--
10:50	5 Min talks	
	Jocelyn Menard	Development of GC-SIM-MS Method for Absolute Quantification of Cholesterol in Producing Cells and Lentiviral Particles
	Ahona Deb	Derivatizing Rosemary is Integral to Its Analysis
	Maximiliano Araneda Suarez	Fragrant Fakery: Sniffing Out the Truth in "Pure" Green Coffee Oil
11:10	Sandesh Gondarry	Breaking bonds and burning ideas: A new look into 4-ethylguaiaicol and eugenol pyrolysis using iPEPICO spectroscopy (15 min)
11:30	Nathan Ghafari	Untargeted and targeted metabolomics of a polycystic ovary syndrome mouse model (15 min)
11:50	Noah A. Lepinsky	A Novel Mass Spectrometry-Based Workflow for Chemical Profiling of Explosives and Illicit Substances (15 min)
12:10 pm		--Lunch-- Sponsored by Thermo
		--Free Afternoon-- The resort has a small beach and indoor and outdoor pools. 4 pickleball courts (gear available at the office), a games room (pool, table tennis, foosball, air hockey, shuffleboard). Nearby is a nice hiking area that can take you to some nice hilltop views. Golf course is across the highway. Kayaks, paddle boats and canoes can be rented for \$15 / hour. The conference will cover this expense.
5:30		--Dinner--
6:30		--Free Evening--

Wednesday:

9:00 am	Derek Wilson	Tutorial: HDX-MS (30 min)
9:40	Emir Nazdrajić	Per- and Polyfluoroalkyl Substances in Water and Wastewater Treatment Plants of Southern Ontario (15 min)
10:00	Angela Radnoff	Determination of the pyrolysis products of per/polyfluorinated compounds using imaging photoelectron photoion coincidence spectroscopy (iPEPICO) (15 min)
10:20		--Coffee Break--
10:50	5 Min talks	
	Rojvan Abdullah	This Might Tingle: A Chemical Analysis of Green Sichuan Pepper's Numbing Kiss
	Sum Ki Kelsie Ling	Sand Ginger is Not Ginger. Insight into the Volatile Composition of Kaempferia Galanga in Relation to Storage Time and Extraction Methods.
	Tomi Opapeju	Its time for lemon thyme
11:10	Reshmi Karamel	Breaking Down Terpene Radical Cations: iPEPICO Insights into Fragmentation Pathways (15 min)
11:30	Edgar White Buenger	Where You Protonate Matters: The Terpene Case Study (15 min)
11:50	5 Min talks	
	Laranya Namasivayam	Phytochemistry of the Endangered Pleodendron Macranthum
	Danko Brukner	Optimization of breast milk metabolome and proteome coverage by LC-MS/MS
	Tabeeb Howlader	Too Hot to Handle: Chemical Profiling of Six Global Peppercorn Varieties
12:10 pm		--Lunch—sponsored by Bruker
1:30	Christopher Ryan	CO ₂ as a Protective Gas in LC×DMS Separation of Fragile PFAS Compounds (15 min)
1:50	Samuel Roxburgh	You Said This Thing Has How Many Nitrogens? The Interesting Dissociation of Protonated Metformin (15 min)
2:10	5 Min talks	
	Julian Giorgi	What's a Mati with you? Probing the Chemical Composition of Mati
	Josiah Smith	Pineapple Weed: Don't smoke it, don't put it on your pizza.
	Zeinab Habbouche	MALDI MSI Analyses of a Tamoxifen-Induced Mouse Model of Neurodegeneration
2:30		--Farewell 2025--

Presentations:

Student presentations are generally 15 min + 5 (questions)

The sessions with 5 min talks will feature 3 talks followed by 5 min for questions for all 3 speakers.

Plenary/Tutorials are 30 min + 5 (questions)

Student Presentation Prizes:

1 x \$100 and 1 x \$200 Waters

1 x \$100 Thermo

1 x \$100 Bruker