2026 SAVS Symposium Timetable

Day 1 – Wednesday July 8

Time	
9:00 – 9:15	Registration & Arrival
9:15 – 9:30	Opening Address & Welcome
9:30 – 10:30	*Keynote Speaker:* Natalie Sims, *St. Vincent's Institute of Medical Research and the University of Melbourne*, – Using vibrational spectroscopy to study bone matrix composition and mineralisation.
10:30 – 11:00	*Morning Tea*
Session 1	**Materials**
11:00 - 11:20	👩‍🎓 Peter Leung, *School of Physics, The University of Sydney* - Ammonium-Free-Layered-Perovskites with Alternating Cations in the Interlayer for Wide-Bandgap Solar Cells.
11:20 - 11:40	Anastasiia Tukova, *School of Natural Sciences, Macquarie University*: Label-free SERS detection of biological analytes.
11:40 - 12:00	Neeha Velagapudi and Karen Wilcox, *Australian National Maritim Museum*: NIR Spectroscopy for rapid, non-invasive analysis of cellulose nitrate and cellulose acetate negatives.
12:00 - 12:20	Stephanie Le Strange, *Metrohm Australia*: Spectroscopy Technologies and Applications
	Official Welcome
12:20 – 12:30	Pro-Vice Chancellor of Research Infrastructure (PVCRI) Prof. Simon Ringer
12:30 – 1:30	*Lunch*
Session 2	**Materials**
1:30 – 1:50	👩‍🎓 Simran Sethi, *School of Chemical and Biomolecular Engineering, The University of Sydney*: Quantifying Carbonate and Hydroxide Phases in Carbon Mineralisation Products using TGA-FTIR. (presented by Majharul Haque Khan)
1:50 - 2:10	Shamim Sharhrokhi, Anton Paar Australia & New Zealand Pty. Ltd.: Raman on the Line: Real-Time Crystallinity Monitoring in PEEK Film Extrusion.
2:10 - 2:30	Yan Lu, *Biomedical Engineering, University of Sydney*: Plasmonic Skin as a Wearable SERS Substrate for Direct Chemical Identification.
2:30 - 2:35	👩‍🎓 ⚡ Sophie Cottam, *School of Biomedical Engineering, University of Sydney*: Lasers for Lasers: Raman Spectroscopy of Laser-Induced Graphene Fabrication.
2:35 - 2:40	⚡ Ali Ibrahim, *Chau Chak Wing Museum, University of Sydney*: An in-depth analysis of ancient Egyptian cartonnage using Optical Photothermal IR (O-PTIR) Spectroscopy.
2:40 - 3:10	*Afternoon Tea*
Session 3	**Tour**
3:10 - 4:30	Facility Tour

⚡ - Lightning Presentation (5 Mins); 👩‍🎓 - Student Presentation; 🌟 - Sponsor Presentation

Day 2 – Thursday July 9

Time	
9:00 – 9:20	Registration & Arrival
Session 4	**Life Sciences**
9:20 – 9:50	*Invited Speaker*: Ross Graham, *Curtin Medical Research Institute, Curtin University*: Live cell imaging using time-lapse FTIR spectroscopy.
9:50 – 10:10	Graeme Batten, *University of Sydney*: Near infrared spectroscopy of two highly correlated constituents in wheat grains.
10:10 – 10:30	Luke Pevey, *Sydney Pharmacy School, The University of Sydney*: Rapid Biochemical Profiling of Probiotic EVs Using High-Throughput FTIR Spectroscopy.
10:30 – 11:00	*Morning Tea*
Session 5	**Life Sciences**
11:00 - 11:30	*Invited Speaker*: Hayley Green, *School of Science, Western Sydney University* – Assessment of Late Postmortem interval of Skeletal Remains using Raman and FTIR Spectroscopy.
11:30 - 11:50	Xiaorui Cao, *School of Biomedical Engineering, University of Sydney*: SERS-based plasmonic biosensor for 3D cardiac model metabolites monitoring.
11:50 - 12:10	Cameron Issacs, *College of Science and Engineering, Flinders University*: Low-Wavenumber Characterisation of Multi-Substituted Apatites.
12:10 – 1:00	*Lunch*
Session 6	**Environment**
1:00 – 1:30	*Invited Speaker*: Thomas Rodemann, *Central Science Laboratory, University of Tasmania*– From TerraSpec to Predictive Mineral Intelligence: Quantifying Infrared Spectroscopy for Mining.
1:30 - 1:50	Rachel Yamamoto, *School of Life and Environmental Sciences, University of Sydney*: Spatial Differences in Aggregate Stabilised Mineral Associated Organic Matter Under Three Agricultural Soils.
1:50 - 2:10	Christine Fink, *School of Civil Engineering, University of Sydney*: Assessing Focus Accuracy and Substrate Effects in FPA-Based Microplastic Analysis Comparing LUMOS II and SPERO Systems.
2:10 -2:30	Koman Tam, *Bruker Pty Ltd*: Environmental particles Detection by QCL IR imaging and NEMS-FTIR Spectroscopy.
2:30 - 2:35	Kim Tran, *Sydney Institute of Agriculture and the School of Life and Environmental Sciences, University of Sydney*: From One Soil Spectrum to Multiple Environmental Information: Mid-Infrared Spectroscopy for Soil Biology, Carbon, and Microplastics.
2:35-2:55	Benedikt Hugnafl, *Hufnagl Chemometrics GmbH*: Toward Reliable Microplastics Data: Challenges in Spectroscopic Analysis and Machine Learning.
2:55 – 3:15	*Tea + Coffee Break*

Session 7	Environment
3:15 – 3:45	*Invited Speaker*: Richard Wuhrer, *Advanced Materials Characterisation Facility, Western Sydney University* – Next Generation of Instruments Required - Combined and Correlative SEM, EDS, XRM, CL, Raman and Optical System (Colour-CL-GSR System) for Gunshot Residue and Mineralogical Analysis
3:45 – 4:05	Mustafa Kansiz, *Photothermal Spectroscopy Corp.*: Multimodal High-Speed Laser-Scanning Submicron Infrared (O-PTIR) and Stimulated Raman (PT-SRS) Platform for Real-Time Label-Free Chemical Imaging.
4:05 – 4:25	Derek Huxley, *Warsash Scientific*: Advanced Instruments for Research, Safety and Security.
4:30 - 6:00	*Rooftop canapes*

- Lightning Presentation (5 Mins); - Student Presentation; - Sponsor Presentation

Day 3 – Friday July 10

Time	
9:00 – 11:00	Benedikt Hugnafl, *Hufnagl Chemometrics GmbH* **MicroparticlesAI Workshop – Session 1:** Covers key concepts in chemometrics, including the differences between spectral library search and machine learning models, strategies for building representative training datasets, and the role of iterative improvement and domain shift.
11:00 – 11:30	*Morning Tea*
11:30 – 1:30	**MicroparticlesAI Workshop – Session 2:** Presents microparticlesAI and its application in real-world analysis.
1:30 – 2:15	Symposium Closing and Lunch