



Advanced Spectroscopy in Chemistry ~ Summer School 2025 ~ Helsinki

Monday June 9	Tuesday June 10	Wednesday June 11	Thursday June 12	Friday June 13
	9:15–9:30 Welcome 9:30–10:30 Ralf Tonner-Zech Coffee break 30 min 11:00–12:00 Daniele Cortecchia 12:00 – 13:30 Lunch 13:30–14:45 Michal Wozniakiewicz Coffee break 30 min 15:15–16:00 Jekaterina Mazina-Šinkar Free time + All participants: Group photo @ 19:05 and Joint dinner @19:15 in Suomenlinna Brewery (on an island, take ferry from Kauppatori; HSL ticket valid)	09:15–10:15 Filip Ekholm 10:15–10:30 Diana Barakhtii Coffee break 30 min 11:00–11:45 Pedro Camargo 11:45–12:00 MD M. 12:00 – 13:30 Lunch 13:30–14:30 Matti Rissanen 14:30–14:45 Federica Bortolussi Coffee break 30 min 15:15 – 16:30 MT presentations by ASC students (5 x 15 min) 16:30 – 17:45 Poster session 18-19 All participants: Helsinki City Reception in Empiresali (Aleksanterinkatu 20)	9:15–10:15 Theo Kurtén 10:15–10:30 Hongye Zhao Coffee break 30 min 11:00–12:00 Lise Deschutter 12:00 – 13:30 Lunch 13:30–14:00 Katriina Kalliomäki 14:00–14:45 Fariba Partovi Coffee break 30 min 15:15– 16:15 MT presentations by ASC students (4 x 15 min) 18 - 21 Students-only program	09:15–10:15 Sarah Butcher 10:15–10:30 Kyrto Bisikalo 10:45 – 11:15 Petra Vasko 11:15 – 12:00 Vladimir Aseyev 12:00 – 13:00 Lunch 13:00–14:00 Closing session Student dinner at UniCafe Kaivopiha (Mannerheimintie 3) Open until 19:45

Venues in Helsinki city centre, appr. 20 min. from Töölö Towers by tram:

- **Tuesday to Thursday** – Porthania building. Address: *Yliopistonkatu 3*
- **Friday** – U33, Banquet Room 303. Address: *Unioninkatu 33*



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Topics of the lectures:

- **Prof. Ralf Tonner-Zech** (University of Leipzig), "Atomic layer deposition - a first principles perspective"
- **Prof. Daniele Cortecchia** (University of Bologna), "Structural and optoelectronic properties correlations in metal halide perovskites"
- **Prof. Michal Wozniakiewicz** (Jagiellonian University in Krakow), "Application of capillary electrophoresis in forensic analysis"
- **Prof. Jekaterina Mazina-Šinkar** (Tallinn University of Technology & SafePAS), "Turning Ideas into Ventures: The Journey from Scientific research to Commercialization"
- **Prof. Filip Ekholm** (University of Helsinki), "Adventures in the Biomolecular Landscape"
- **Diana Barakhtii** (Uni. Helsinki), "BNCT: Battling Tumors and Deadlines"
- **Prof. Pedro Camargo** (Uni. Helsinki), "Sunlight, Startups & World Domination (from the Dark Labs of HEL)"
- **Md Mofakkarulhashan** (Uni. Helsinki), "Catalyst as a core of Green Hydrogen"
- **Prof. Matti Rissanen** (Uni. Helsinki), "From volatile to non-volatile in sub-second timescales"
- **Federica Bortolussi** (Uni. Helsinki), "Machine learning applications in the world of mass spectrometry analyses"
- **Prof. Theo Kurten** (Uni. Helsinki), "Computational Studies of Atmospheric Accretion Products: What, Why, and How"
- **Hongye Zhao** (Uni. Helsinki), "Rapid alkoxy radical reactions in bimolecular complexes"
- **Lise Deschutter** (Octopus Lab), "From ASC to indoor air quality in a startup"
- **Katriina Kalliomäki** (Kemira), "From challenges to solutions: Working in Analytics at Kemira"
- **Fariba Partovi** (Karsa), "Karsa: Analyzing air for a safer tomorrow"
- **Prof. Sarah Butcher** (Uni. Helsinki), "Introduction and overview of Cryo Electron Microscopy"
- **Kyrylo Bisikalo** (Uni. Helsinki), "Structural biology as a valuable tool for drug design"
- **Dr. Petra Vasko** (Uni. Helsinki), "How I got to be an academic and a junior research group leader"
- **Dr. Vladimir Aseyev** (Uni. Helsinki), "How to make a good presentation"

Master's student presentations, Wednesday

1. **Philipp Gansen**, "How to avoid spectroscopy - part 1"
2. **Franka Ninov**, "How to avoid spectroscopy - part 2"
3. **Laura Nathalia Díaz Rozo**, "Spectroscopic properties of 2D/3D organic-inorganic materials for energy and optoelectronics"
4. **Aidana Eshesheva**, "Synthesis and Characterisation of Layered Double Hydroxides for the Production of Energy Vectors"
5. **Mauricio Jesus Sarmiento Perez**, "Performance evaluation against ageing of Silane and Inralac coatings for quaternary bronze"

Master's student presentations, Thursday

1. **Giorgia Incaminato**, "Mercury Surface UV-Vis-NIR Spectral Reflectance: Role of Graphite"
2. **Nadia Milaneze**, "Synthesis and characterization of trans-OAHFAs"
3. **Millene Ribeiro**, "Method Improvement for the Determination of TNT and its Degradation Compounds in Marine Sediment by GC-MS/MS"
4. **Ilia Elizbarian**, "TBA"