

## 10 Schedule of events

### Saturday 13 June 2026

- 15:00 - 18:00 **Registration**
- 17:00 - 19:00 **Informal get-together in the Hotel Alexandra Bath & Spa**  
*This event is kindly sponsored by SpectraPure Standards AS*
- From 19:00 **Dinner**

### Sunday 14 June 2026

- 08:00 - 09:00 **Registration**
- 08:45 - 09:15 **Welcome and opening remarks**
- 09:15 - 11:15 **Session I: Frontiers in atomic and molecular spectrochemistry**
- 11:15 - 11:45 **Coffee break, poster viewing and exhibition**
- 11:45 - 12:45 **Session I continues: Frontiers in atomic and molecular spectrochemistry**
- 13:00 - 14:00 **Lunch**
- 14:00 - **Excursion to Geiranger, The Skåla Challenge, Loen Skylift and Loen Lake**
- From 19:00 **Dinner**

### Monday 15 June 2026

- 08:00 - 10:40 **Session II: Progress in instrumentation and application of spectrochemistry**
- 10:10 - 10:40 **Coffee break, poster viewing and exhibition**
- 10:40 - 13:00 **Session III: Ionisation, laser ablation and elemental/molecular imaging**
- 13:00 - 14:00 **Lunch**
- 14:00 - 15:40 **Session III continues: Ionisation, laser ablation and elemental/molecular imaging**
- Short Course Session I**
- |               |                            |                            |                            |                            |                            |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 15:50 - 17:35 | <b>Short course<br/>A1</b> | <b>Short course<br/>A2</b> | <b>Short course<br/>A3</b> | <b>Short course<br/>A4</b> | <b>Short course<br/>A5</b> |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
- 17:35 - 18:00 **Coffee break, exhibition and poster viewing**
- Short Course Session II**
- |               |                            |                            |                            |                            |                            |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 18:00 - 19:45 | <b>Short course<br/>B1</b> | <b>Short course<br/>B2</b> | <b>Short course<br/>B3</b> | <b>Short course<br/>B4</b> | <b>Short course<br/>B5</b> |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
- From 19:00 **Dinner**
- 21:00 **Poster viewing and discussions with wine and beverage tasting  
(Bring your own wine or beverage)**

## Tuesday 16 June 2024

08:00 - 11:40	<b>Session IV: Molecular and biological mass spectrometry imaging</b>				
10:00 - 10:30	<b>Coffee break, poster viewing and exhibition</b>				
11:50 - 13:00	<b>Session V: Speciation in nutrition, environment and bioinorganic chemistry</b>				
13:00 - 14:00	<b>Lunch</b>				
14:00 - 16:10	<b>Session V continues: Speciation in nutrition, environment and bioinorganic chemistry</b>				
	<b>Short Course Session III</b>				
16:15 - 18:00	<b>Short course C1</b>	<b>Short course C2</b>	<b>Short course C3</b>	<b>Short course C4</b>	<b>Short course C5</b>
18:00 - 18:15	<b>Coffee break, poster viewing and exhibition</b>				
	<b>Short Course Session IV</b>				
18:15 - 20:00	<b>Short course D1</b>	<b>Short course D2</b>	<b>Short course D3</b>	<b>Short course D4</b>	
From 19:00	<b>Dinner</b>				

## Wednesday 17 June 2026

08:00 - 10:30	<b>Session VI: Laser ablation applications in spectrochemistry – microplastic and particulate analysis</b>
10:30 - 11:00	<b>Coffee break, poster viewing and exhibition</b>
11:00 - 12:30	<b>Session VII: Advances in nuclear and isotopic measurements</b>
12:30 - 13:30	<b>Lunch</b>
13:30 - 16:00	<b>Session VIII: Real time, in situ and other measurements</b>
16:30 – 23:00	<b>Departure for the excursion to the Briksdal Glacier with a conference outdoor dinner</b>

## Thursday 18 June 2026

08:30 - 09:45	<b>Poster viewing, exhibition and discussions with morning coffee and tea</b>
09:45 - 11:30	<b>Short course: Analytical nano-material characterisation</b>
11:30	<b>Closing remarks and farewell</b>
12:00	<b>Lunch</b>

## 11 Daily Programme

**Sunday 14 June 2026**

08:45-  
09:15

**Welcome/Opening remarks**

Yngvar Thomassen

**Session I: Frontiers in atomic and molecular spectrochemistry**

Chair:

09:15-  
09:45

**O-1 (Quasi) Simultaneous atomic and molecular spectrometry –  
Past, present, and possible future**

Gary M. Hieftje

*Department of Chemistry, Indiana University, Bloomington, USA*

09:45-  
10:15

**O-2 Measurement science & governance: Shaping national and international policy**

Vahid Majidi,

*Independent, Aiken, South-Carolina, USA*

10:15-  
10:45

**O-3 Renaissance of nitrogen as an alternative gas for inductively coupled plasma mass spectrometry**

Monique Kuonen, Dylan Käser, Joachim Koch, Bodo Hattendorf  
and Detlef Günther

*ETH Zurich, Department of Chemistry and Applied Biosciences, Zurich, Switzerland*

10:45-  
11:15

**O-4 Novel types of applications are driving a never-ending demand for improved ICP-MS capabilities**

Frank Vanhaecke, Rinus Dejonghe, Mina Nikolic, Thibaut Van Acker and Ana Lores-Padin

*Atomic & Mass Spectrometry – A&MS research unit, Department of Chemistry, Ghent University, Belgium*

11:15-  
11:45

**Coffee, exhibition and poster viewing**

11:45-  
12:05

**O-5 Collision-induced isotope fractionation in ICP-MS/MS under He, Ne, and Ar condition**

Kengo Ito<sup>1,2</sup>, Chihaya Kinoshita<sup>1</sup>, Toshiyuki Fujii<sup>2</sup> and Takafumi Hirata<sup>1</sup>

<sup>1</sup>*Geochemical Research Center, Graduate School of Science, The University of Tokyo, Japan*

<sup>2</sup>*Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, the University of Osaka, Japan*

12:05-  
12:25

**O-6 Isotopic fractionation of zirconium through ion reactions with NH<sub>3</sub> found in inductively coupled plasma–tandem mass spectrometry**

Hiroaki Takahashi<sup>1</sup>, Kota Yamamoto<sup>1</sup>, Chihaya Kinoshita<sup>2</sup>, Kengo Ito<sup>2</sup> and Takafumi Hirata<sup>2</sup>

<sup>1</sup>*Regulatory Standard and Research Department, Secretariat of Nuclear Regulation Authority, Tokyo, Japan*

<sup>2</sup>*Geochemical Research Center, Graduate School of Science, The University of Tokyo, Japan*

12:25- **O-7** **Detection of volatile organic compounds through soft ionisation using ICP-tandem mass spectrometry (ICP-MS/MS)**  
12:45

Takafumi Hirata<sup>1</sup>, Chihaya Kinoshita<sup>1,2</sup> and Ritsu Morisaki<sup>1</sup>,  
<sup>1</sup> *Geochemical Research Center, Graduate School of Science, The University of Tokyo, Japan*

<sup>2</sup> *Present affiliation: ST Japan Inc Chuo-ku, Tokyo, Japan.*

13:00 **Lunch**

14:00 **Excursion to Geiranger and Loen Lake**

**Other activities: Loen Skylift and the Skåla Challenge**

From **Dinner**  
19:00



## Monday June 15 2026

### Session II: Progress in instrumentation and application of spectrochemistry

Chair:

- 08:00- 08:30 **O-8 Multi-pressure approach and X-ray desorption of solid reagent precursors for sustainable chemical ionization mass spectrometry**  
Aleksi Scherbinin  
*Karsa OY and University of Helsinki, Helsinki, Finland*
- 08:30- 08:50 **O-9 Optimising ICP-MS analysis: Enhancing helium collision and reaction cell modes**  
Naoki Sugiyama<sup>1</sup>, Michiko Yamanaka<sup>1</sup>, Erina Shimizu<sup>1</sup> and Raimund Wahlen<sup>2</sup>  
<sup>1</sup> *Agilent Technologies Japan, Ltd., 9-1 Takakura-machi, Hachioji-shi, Tokyo 192-8510, Japan*  
<sup>2</sup> *Agilent Technologies UK Ltd, 5500 Lakeside, Cheadle Royal Business Park, Stockport, SK8 3GR, UK*
- 08:50- 09:10 **O-10 The Avio 3000: The first third-generation ICP-OES platform built around fundamental redesign**  
Minyu Zuo<sup>1</sup> and Daniel Fliegel<sup>2</sup>  
<sup>1</sup> *PerkinElmer Nordics*  
<sup>2</sup> *PerkinElmer Norway AS*
- 09:10- 09:30 **O-11 Fast analysis of environmental samples by ICP-QQQ with discrete sampling**  
Satoshi Kondo<sup>1</sup>, Michiko Yamanaka<sup>1</sup>, Glenn Woods<sup>2</sup> and Raimund Wahlen<sup>2</sup>  
<sup>1</sup> *Agilent Technologies Japan, Ltd., 9-1 Takakura-machi, Hachioji-shi, Tokyo 192-8510, Japan*  
<sup>2</sup> *Agilent Technologies UK Ltd, 5500 Lakeside, Cheadle Royal Business Park, Stockport, SK8 3GR, UK*
- 09:30- 09:50 **O-12 Innovative multielement analysis strategies for occupational airborne metals: ICP-MS and complementary techniques**  
Tobias Schwank, J. Heck, M. Krämer and C. Wippich  
*Institute for Occupational Safety and Health of the German Social Accident Insurances – IFA, Sankt Augustin, Germany*
- 09:50 – 10:10 **O-13 Extending the analytical reach of ICP-OES: UV boost mode on the Avio 3000 for the determination of crucial challenging low-UV elements**  
Minyu Zuo<sup>1</sup> and Daniel Fliegel<sup>2</sup>  
<sup>1</sup> *PerkinElmer Nordics*  
<sup>2</sup> *PerkinElmer Norway AS*
- 10:10- 10:40 **Coffee break, exhibition and poster viewing**

### Session III: Ionisation, laser ablation and elemental/molecular imaging

Chair:

- 10:40- **O-14** **Microplasma ionization coupled to enhanced orbitrap mass spectrometers: Moving towards elemental and isotopic analysis *without* chemical separation**  
 11:10 R. Kenneth Marcus  
*Clemson University, Clemson, USA*
- 11:10- **O-15** **Elemental imaging by mass spectrometry at the micro and nanoscale - Challenges and prospects**  
 11:40 Dirk Schaumlöffel  
*CNRS/Université de Pau et des Pays de l'Adour, Pau, France*
- 11:40- **O-16** **Acoustic ion manipulation (AIM) to enhance mass spectrometry and ion mobility spectrometry**  
 12:10 Jacob Thomas Shelley  
*Rensselaer Polytechnic Institute, Troy, USA*
- 12:10- **O-17** **Laser ablation with simultaneous elemental and molecular mass spectrometry imaging: From plant samples to tattoos**  
 12:40 Uwe Karst, Johannes Schmeinck, Lea Tobergte, Till Schröder, Lena Hiddeßen, Lena Schlautmann, Mark Wesner, Hannah Freyer and Katharina Kronenberg  
*Institute of Inorganic and Analytical Chemistry, University of Münster, Germany*
- 12:40- **O-18** **Multimodal bioimaging using mass spectrometric and spectroscopic techniques on a single tissue thin section**  
 13:00 Lena Hiddeßen<sup>1</sup>, Lea Würfel<sup>2</sup>, Rickmer Braren<sup>2,3</sup>, Irina Heid<sup>2</sup> and Uwe Karst<sup>1</sup>  
<sup>1</sup> *Institute of Inorganic and Analytical Chemistry, University of Münster, Germany*  
<sup>2</sup> *Institute of Diagnostic and Interventional Radiology, TUM University Hospital Rechts der Isar, TUM School of Medicine and Health, Technical University of Munich, Germany*  
<sup>3</sup> *Department of Diagnostic and Interventional Radiology and Nuclear Medicine, University Medical Center Hamburg-Eppendorf, Hamburg, Germany*
- 13:00 **Lunch**  
 14:00

### Session III continues: Ionisation, laser ablation and elemental/molecular imaging

Chair:

- 14:00- **O-19** **Mapping strategies and calibration approaches for laser ablation ICP-MS imaging**  
 14:30 Martin Šala  
*National Institute of Chemistry, Ljubljana, Slovenia*
- 14:30- **O-20** **Fingerprinting materials oxidation using laser-induced XUV spectroscopy (LIXS)**  
 15:00 Davide Bleiner<sup>1</sup>, Sharath Rameshbabu<sup>1</sup> and Janosch von Ballmos<sup>2</sup>  
<sup>1</sup> *University of Eastern Switzerland (OST), Institute of Microtechnology & Photonics, Buchs/SG, Switzerland*  
<sup>2</sup> *Now at University of Bern, Switzerland*

- 15:00- **O-21** **Hyphenation of laser ablation with ICP-MS and APCI-MS for simultaneous**  
15:20 **elemental and molecular imaging of flower buds from the invasive narrow leaved**  
**ragwort**  
Till Schröder, J. Schmeinck and U. Karst  
*University of Münster, Institute of Inorganic and Analytical Chemistry, Germany*

### Short Course Session I

15:30- 17:15	<b>A1-A5</b>	<b>A1</b> Jörg Bettmer:	<b>A2</b> Lukas Brunnbauer:	<b>A3</b> Rainer Cramer:	<b>A4</b> Benjamin Manard:	<b>A5</b> Frank Vanhecke:
		<b>Tracing nanomaterials in biological systems: A brief overview on sample preparation and characterisation techniques</b>	<b>An introduction to machine learning for sample classification based on elemental fingerprinting</b>	<b>Development and applications of ion sources in biological MS</b>	<b>Nuclear material characterization: Tools, techniques, and emerging capabilities</b>	<b>An introduction to isotopic analysis</b>

- 17:15-  
17:45 **Coffee break, exhibition and poster viewing**

### Short Course Session II

17:45- 19:30	<b>B1-B5</b>	<b>B1</b> Detlef Günther:	<b>B2</b> Karl A. Jensen:	<b>B3</b> Heidi-Goenaga- Infante:	<b>B4</b> Dirk Schaumlöffel:	<b>B5</b> Zoltan Takats:
		<b>General introduction and fundamentals of laser ablation- inductively coupled plasma mass spectrometry</b>	<b>Practical approaches to use reaction gases in ICP-QQQ-MS</b>	<b>Metrological and standardisation advances for particle concentration: From inorganic nanomaterials to bio- nanoparticles to microplastics</b>	<b>Secondary ion mass spectrometry for elemental and isotopic imaging</b>	<b>Theory and practice of ambient ionisation mass spectrometry</b>

From  
19:00

**Dinner**

21:00

**Poster viewing and discussions with wine and beverage tasting and exhibition.  
(Bring your own wine or beverage)**



- 12:20-12:40 **O-30 From molecules to elements: Electrospray ionization coupled to high resolution mass spectrometric for trace element speciation**  
Damiano Monticelli<sup>1</sup>, Alejandro Ruiz López<sup>1,2</sup>, Gianluca Roncoroni<sup>1</sup>  
<sup>1</sup> *Dipartimento di Scienza e Alta Tecnologia, University of Insubria, Como, Italy*  
<sup>2</sup> *Scuola Universitaria Superiore Pavia IUSS, Pavia, Italy*
- 12:40-13:00 **O-31 Mercury and selenium isotopic analysis for unraveling Hg detoxification mechanisms in marine biota**  
Mathias Vandermeiren<sup>1</sup>, L. Abou-Zeid<sup>1</sup>, L. Suarez-Criado<sup>1</sup>, Martin Wiech<sup>2</sup> and F. Vanhaecke<sup>1</sup>  
<sup>1</sup> *Ghent University, Department of Chemistry, Ghent, Belgium*  
<sup>2</sup> *Institute of Marine Research, Bergen, Norway*
- 13:00-14:00 **Lunch**
- Session V continuous: Speciation in nutrition, environment and bioorganic chemistry**  
 Chair:
- 14:00-14:30 **O-32 Fate of gadolinium-based contrast agents in the body and environment: Insights from speciation studies**  
Ryszard Lobinski<sup>1</sup>, Izabela Strzemińska,<sup>2</sup> Cécile Factor,<sup>2</sup> Celia Trujillo,<sup>1,3</sup> Francisco Laborda<sup>3</sup> and Javier Jimenez-Lamana<sup>1</sup>  
<sup>1</sup> *CNRS, Institute of Analytical and Physical Chemistry for the Environment and Materials (IPREM - UMR 5254), Pau, France*  
<sup>2</sup> *Guerbet Research and Innovation Department, Aulnay-sous-Bois; France*  
<sup>3</sup> *Universidad de Zaragoza, Department of Chemistry, Zaragoza, Spain*
- 14:30-15:00 **O-33 Fluorine – the dark side in atomic spectrometry**  
 Jörg Feldmann  
*University of Graz, Austria*
- 15:00-15:20 **O-34 Unravelling the mechanism of glyphosate formation from aminopolyphosphonates by hyphenation of ion chromatography to ICP-MS and ESI-MS**  
Mathis Athmer<sup>1</sup>, Anna M. Röhnelt<sup>2</sup>, Stefan B. Haderlein<sup>2</sup> and Uwe Karst<sup>1</sup>  
<sup>1</sup> *Institute of Inorganic and Analytical Chemistry, University of Münster, Germany*  
<sup>2</sup> *Geo-and Environmental Research Center, Department of Geosciences, University of Tübingen, Tübingen, Germany*
- 15:20-15:50 **O-35 Examples of trace element speciation analysis in foodstuffs – from research to regulation**  
 Jens Sloth  
*Technical University of Denmark, Lyngby, Denmark*
- 15:50-16:10 **O-36 New insights into the speciation of small organically - bound chromium species at low  $\mu\text{g kg}^{-1}$  concentrations in collected aerosols from e-cigarettes using HPLC-ICP-MS**  
Serhat Doker, John Entwisle, Kyle Saunders, Luise Luckau and Heidi Goenaga-Infante  
*National Measurement Laboratory, LGC, Guildford, UK*

**Short Course Session III**

16:15- 18:00	<b>C1–C5</b>	<b>C1</b> Davide Bleiner:  <b>Laser ablation for non-nerds. All you wanted to know about its physics (but were afraid to ask)</b>	<b>C2</b> Jorge Pisonero Castro:  <b>Introduction to GD-MS for direct analysis of innovative materials</b>	<b>C3</b> Jörg Feldmann and Victoria Müller:  <b>Application of ICP-MS and ESI-MS in measurement of PFAS</b>	<b>C4</b> Uwe Karst:  <b>Laser ablation and molecular mass spectrometry: Fundamentals and applications</b>	<b>C5</b> Laslo Márk:  <b>MALDI IMS and imaging mass spectrometry</b>
18:00- 18:15	<b>Coffee break, exhibition and poster viewing</b>					

**Short Course Session IV**

18:15- 20:00	<b>D1–D4</b>	<b>D1</b> Ryszard Lobinski:  <b>Plasma source mass spectrometry for trace element speciation analysis: from principles to practice</b>	<b>D2</b> R. Kenneth Marcus:  <b>Orbitrap mass analyzers for elemental and isotopic analysis</b>	<b>D3</b> Martin Šala:  <b>LA-ICP-MS mapping: from fundamentals to high resolution calibrated elemental maps</b>	<b>D4</b> Jacob T. Schelley:  <b>Direct molecular mass spectrometry with atmospheric pressure plasmas</b>
From 19:00	<b>Dinner</b>				

**Wednesday 17 June 2026****Session VI: Laser ablation applications in spectrochemistry – microplastic and particulate analysis**

Chair:

08:00- 08:30	<b>O-37</b>	<b>Laser ablation based spectroscopy: From multi-elemental tissue mapping to unveiling segregation phenomena in metallurgy</b> Jorge Pisonero Castro <i>University of Oviedo, Spain</i>
08:30- 09:00	<b>O-38</b>	<b>Detection and characterization of microplastics by LA-ICP-MS and LIBS</b> <u>Lukas Brunnbauer</u> and Andreas Limbeck <i>TU Wien, Institute of Chemical Technologies and Analytics, Vienna, Austria</i>
09:00- 09:30	<b>O-39</b>	<b>A multi-method platform for the characterization of microplastics: From pristine materials to complex samples</b> Heidi Goenaga-Infante <i>National Measurements Laboratory, LGC, UK</i>

09:30- **O-40** **Development of a multimethod platform based on laser direct infra-red (LD-IR) imaging spectroscopy for the reliable identification and characterisation of microplastics**

09:50

Aneta Sikora, David Ojeda, Dorota Bartczak and Heidi Goenaga-Infante  
*National Measurement Laboratory hosted at LGC, Guilford, UK*

09:50- **O-41** **Establishing a random forest classifier based on LIBS for process control of galvanized steel strip**

10:10

Jakob Willner<sup>1</sup>, David K. Gibbs<sup>1</sup>, Lukas Brunnbauer<sup>1</sup>, Fabian Friedl<sup>2</sup> and Andreas Limbeck<sup>1</sup>

<sup>1</sup> *TU Wien, Institute of Chemical Technologies and Analytics, Vienna, Austria*

<sup>2</sup> *Voestalpine Stahl GmbH, Linz, Austria*

10:10- **O-42** **How can various ICP-MS techniques provide complementary information on nanogold alterations?**

10:30

Magdalena Matczuk, K. Nowak and M. Mierzwa

*Faculty of Chemistry, Warsaw University of Technology, Warsaw, Poland*

10:30- **Coffee break, exhibition and poster viewing**

11:00

## Session VII: Advances in nuclear and isotopic measurements

Chair:

11:00- **O-43** **Single-particle ICP-MS: New frontiers in uranium particle analysis**

11:30

Benjamin T. Manard

*Oak Ridge National Laboratory, Oak Ridge, USA*

11:30- **O-44** **Calibration approaches for radionuclide measurements by ICP-MS/MS**

11:50

Valeriia Morozova, Karl Andreas Jensen and Deborah H. Oughton

*Norwegian Nuclear Research Centre, NMBU, Ås, Norway*

11:50- **O-45** **Miniaturized solid-phase extraction – inductively coupled plasma mass spectrometry (mini-SPE-ICP-MS) coupling for U/Pu determination**

12:10

Antonia Toska,<sup>1</sup> H el ene Isnard<sup>1</sup> and Carole Bresson<sup>1</sup>

<sup>1</sup> *Universit  Paris-Saclay, CEA, Service de Physico-Chimie, Gif-sur-Yvette, France*

12:10- **O-46** **Isotopic and elemental composition analysis of historical artifacts to enhance the interpretation of past research findings**

12:30

Jakub Karasiński<sup>1</sup>, Klaudia Tettejer<sup>1</sup>, Ewa Bulska<sup>1</sup>, Piotr Radziński<sup>2</sup>, Kamil Nowak<sup>3</sup> and Barbara Wagner<sup>1</sup>

<sup>1</sup> *University of Warsaw, Faculty of Chemistry, Biological and Chemical Research Centre, Warsaw, Poland*

<sup>2</sup> *University of Warsaw, Institute of Informatics, Warsaw, Poland*

<sup>3</sup> *Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria*

12:30- **Lunch**

13:30

**Session VIII: Real-time, in situ and other measurements**

Chair:

- 13:30-14:00 **O-47 Proton-transfer-reaction mass spectrometry (PTR-MS): Fundamentals and applications in real-time VOC monitoring**  
Nikita Sobolev, Felix Benjamin Blixt Hasle, Keerthana Balashankar, Tomas Mikoviny and Armin Wisthaler  
*Department of Chemistry, University of Oslo, Norway*
- 14:20-14:40 **O-48 Shredding of lithium ion batteries: Investigating material degradation and safety**  
 J. Buchmann<sup>1</sup>, C. Peschel<sup>1</sup>, M. Winter<sup>1,2</sup>, S. Wiemers-Meyer<sup>1</sup> and Sasha Nowak<sup>1</sup>  
<sup>1</sup> *University of Münster, MEET Battery Research Center, Münster, Germany*  
<sup>2</sup> *Helmholtz-Institute Münster, IEK-12, Forschungszentrum Jülich GmbH, Münster, Germany*
- 14:40-15:00 **O-49 Correlative imaging workflow combining LA-ICP-MS and IR spectroscopy for gadolinium mapping in neural tissue**  
Hannes Gödde<sup>1</sup>, Hennes Rave<sup>2</sup>, Astrid Jeibmann<sup>3,4</sup>, Lars Linsen<sup>2</sup> and Uwe Karst<sup>1</sup>  
<sup>1</sup> *Institute of Inorganic and Analytical Chemistry, University of Münster, Germany*  
<sup>2</sup> *Institute of Informatics, University of Münster, Germany*  
<sup>3</sup> *Clinic of Radiology, University of Münster, Germany*  
<sup>4</sup> *Diagnostic Imaging Research Unit (DIRU), Clinic for Diagnostic Imaging, Vetsuisse Faculty, University of Zurich, , Switzerland*
- 15:00-15:20 **O-50 Advancing fragmentology by multi-technique spectrometric analysis**  
Barbara Wagner<sup>1</sup>, Jakub Karasiński<sup>1</sup>, Ludwik Halicz<sup>1</sup>, Piotr Targowski<sup>2</sup>, Dorota Jutrzenka-Supryn<sup>3</sup> and Monika Opalińska<sup>4</sup>  
<sup>1</sup> *Faculty of Chemistry, University of Warsaw, Poland*  
<sup>2</sup> *Institute of Physics, Nicolaus Copernicus University in Toruń, Poland*  
<sup>3</sup> *Faculty of Fine Arts, Nicolaus Copernicus University in Toruń, Poland*  
<sup>4</sup> *Faculty of Modern Languages, University of Warsaw, Poland*
- 15:20-15:40 **O-51 Hidden fluorine in gasoline: Multi-technique detection of fluorinated species coming from alkylation processes**  
Viktoria Mueller<sup>1,2</sup>, Markus Rotzinger<sup>2</sup>, Zofia Kowaleswka<sup>3</sup>, Raquel Gonzalez de Vega<sup>2</sup>, Klaus Zangger<sup>2</sup> and Jörg Feldmann<sup>2</sup>  
<sup>1</sup> *The James Hutton Institute, Craigiebuckler, Aberdeen, United Kingdom*  
<sup>2</sup> *University of Graz, Austria*  
<sup>3</sup> *Faculty of Civil Engineering, Mechanics and Petrochemistry, Warsaw University of Technology, Płock, Poland*
- 15:40-16:00 **O-52 Assessment of metal contamination in cannabis inflorescences and the impact of consumer preparation tools**  
Jan Piecuch<sup>1,2</sup>, Ewelina Pollak-Kowa<sup>1,2</sup>, Marcin Wiczorek<sup>1</sup> and Anna Telk<sup>1</sup>  
<sup>1</sup> *Faculty of Chemistry, Department of Analytical Chemistry, Jagiellonian University, Kraków, Poland*  
<sup>2</sup> *Doctoral School of Exact and Natural Sciences, Jagiellonian University, Kraków, Poland*

16:30

**Departure for the excursion to the Briksdal Glacier  
with a conference outdoor dinner**



## Thursday 18 June 2026

<b>Time</b>	<b>Abstr.</b>
08:30- 09:45	<b>Poster viewing, discussions and exhibition with morning coffee and tea</b>
09:45- 11:30	<b>Short course:</b> <b>Analytical nano-material characterization</b> Vahid Majidi <i>National Security, Aitken, USA</i>
11:30	<b>Closing remarks and farewell</b>
12:00	<b>Lunch</b>

## Poster Presentations

Sunday 14 June - Wednesday June 18 2026

- P-1 Development of a certified water reference material to support laboratory measurement traceability**  
Anna Ruszczyńska, Jakub Karasiński, Andrzej Gawor and Marcin Wojciechowski  
*University of Warsaw, Faculty of Chemistry, Biological and Chemical Research Centre, Warsaw, Poland*
- P-2 Accurate, rapid and safe determination of americium nuclide mass fraction in spent nuclear fuel using hyphenated isotope dilution HPIC-ICP-MS**  
Nancy N. Wanna, Christelle Cachoïr, Andrew Dobney, Lesley Adriaensen, Peter Van Bree and Ingrid Geuens  
*Belgian nuclear research centre SCK CEN, 2400 Mol, Belgium*
- P-3 How plasma-based analysis techniques enhance battery research.**  
Alexandros Tsoufios<sup>1</sup>, D. Kessen<sup>1</sup>, J. M. Dressler<sup>1</sup>, J. Busch<sup>1</sup>, M. Winter<sup>1,2</sup>, S. Wiemers-Meyer<sup>1</sup> and S. Nowak<sup>1</sup>  
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- P-4 Fluorine depth profiling of lithium ion battery electrodes via glow discharge-sector field-mass spectrometry**  
Dorn, S.L.<sup>1</sup>, Sienknecht, B.<sup>1</sup>; Kauling, J.<sup>1</sup>; Börner, M.<sup>1</sup>; Winter, M.<sup>1,2</sup>; Wiemers-Meyer, S.<sup>1</sup> and Nowak, S.<sup>1</sup>  
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- P-5 Application of ICP-MS for multi-element analysis of iodine and trace elements in brown seaweed: A seasonal study of *Fucus vesiculosus***  
Dong Han<sup>1</sup>, Ditte B. Hermund<sup>1</sup>, Julie S. Vikkelsø<sup>1</sup>, Gonçalo S. Marinho<sup>1,2</sup>, Jens J. Sloth<sup>1</sup> and Susan L. Holdt<sup>1</sup>  
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- P-6 Assessing sodium plating and transition metal deposition on hard carbon anodes in commercial sodium ion batteries by means of plasma-based techniques**  
Jannis Busch<sup>1</sup>, Alexandros Tsoufios<sup>1</sup>, Martin Winter<sup>1,2</sup>, Simon Wiemers-Meyer<sup>1</sup> and Sascha Nowak<sup>2</sup>  
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- P-7 ICP-TOF-MS and HRAM-MS in the field of battery research, production and recycling – from single particle analysis to molecular imaging**  
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- P-8 Silver–lactoferrin functionalized silica powder dressings for the management of multidrug-resistant wound infections in Ukrainian soldiers**  
Oleksandra Pryshchepa<sup>1</sup>, Marlena Grodzicka<sup>1</sup>, Michalina Ehlert<sup>2</sup>, Oleksandr Bespalko<sup>3</sup>, Viktoriia Avramenko<sup>3</sup>, Iryna Furtat<sup>3</sup>, Polina Vakuliuk<sup>3</sup> and Paweł Pomastowski<sup>2</sup>  
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<sup>3</sup>*Nationa University Of Kyiv-Mohyla Academy, Kyiv, Ukraine*
- P-9 Silver-modified lactoferrin as a wound dressing adjuvant enhancing tinidazole and ornidazole activity against multidrug-resistant war-wound isolates**  
Oleksandra Pryshchepa<sup>1</sup>, Viktoriia Avramenko<sup>2</sup>, Iryna Furtat<sup>2</sup>, Polina Vakuliuk<sup>2</sup> and Paweł Pomastowski<sup>1</sup>  
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- P-10 Investigating the diversity in arsenic speciation in mushrooms**  
Julia Truschner<sup>1,2</sup>, Lorenz Steiner<sup>1</sup>, Andrea Raab<sup>3</sup>, Jan Borovicka<sup>4,5</sup>, Walter Goessler<sup>1</sup> and Bassam Lajin<sup>1,2</sup>  
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- P-11 Temperature-programmed desorption / pyrolysis coupled to direct analysis in real time Fourier Transform ultrahigh resolution orbitrap mass spectrometry for the analysis of natural organic matter**  
Ilwan Meignant<sup>1</sup>, Marios Drosos<sup>2</sup> and Maxime C. Bridoux<sup>1</sup>  
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<sup>2</sup>*Department of Agricultural, Forest, Food and Environmental Sciences, University of Basilicata, Potenza, Italy*
- P-12 Elemental interference uncovered: How alkali and alkaline earth metals influence [BaF]<sup>+</sup> and [SrF]<sup>+</sup> Methods for fluorine analysis using ICPMS/MS**  
Franziska Peer<sup>1</sup>, Andrea Raab<sup>1</sup>, Raquel Gonzalez de Vega<sup>1</sup> and Jörg Feldmann<sup>1</sup>  
<sup>1</sup>*University of Graz, Institute of Chemistry, TESLA- Analytical Chemistry, Graz, Austria*
- P-13 Determiration of major and trace elements in plant-based foods by ICP-MS**  
Liyan Xing<sup>1</sup>, Aaron Hineman<sup>1</sup> and Daniel Fliegel<sup>2</sup>  
<sup>1</sup>*PerkinElmer U.S. LLC*  
<sup>2</sup>*PerkinElmer Norway AS*
- P-14 Elemental analysis of mining and soil samples by ICP-MS following aqua regia digestion**  
Aaron Hineman<sup>1</sup>, Minyu Zuo<sup>2</sup> and Daniel Fliegel<sup>3</sup>  
<sup>1</sup>*PerkinElmer U.S. LLC*  
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- P-15 Direct determination of trace impurities in high-purity molybdenum using the NexION 1100 ICP-MS**  
*Xiaoling Ma<sup>1</sup> Minyu Zuo<sup>2</sup> and Daniel Fliegel<sup>3</sup>*  
<sup>1</sup>*PerkinElmer China*  
<sup>2</sup>*PerkinElmer Nordics*  
<sup>3</sup>*PerkinElmer Norway AS*
- P-16 Ultra-trace elemental analysis of ultrapure water for semiconductor applications using the NexION 5000 multi-quadrupole ICP-MS**  
*Liyan Xing<sup>1</sup> Minyu Zuo<sup>2</sup> and Daniel Fliegel<sup>3</sup>*  
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<sup>2</sup>*PerkinElmer Nordics*  
<sup>3</sup>*PerkinElmer Norway AS*
- P-17 Determining hexavalent chromium species in air samples from occupational exposure using IC-ICP-MS**  
**Johanne Ø. Halvorsen<sup>1</sup>**, Nils Petter Skaugset<sup>1</sup>, Pål Graff<sup>1,2</sup> and Torunn K. Ervik<sup>1</sup>  
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<sup>2</sup>*Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences, Ås, Norway*
- P-18 A statistical approach to homogeneity assessment of a multifunctional plant-based CRM for metal analysis**  
*Andrzej Gawor<sup>1\*</sup>, Jakub Karasiński<sup>1</sup>, Anna Ruszczyńska<sup>1</sup>, Marcin Wojciechowski<sup>1</sup>, A. Tupys<sup>1</sup>, Aldona Kubala-Kukuś<sup>2</sup>, Dariusz Banaś<sup>2</sup>, J. Dobrzyńska<sup>3</sup>, J. Reszko-Zygmunt<sup>3</sup>, R. Dobrowolski<sup>3</sup> and Ewa Bulska<sup>1</sup>*  
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<sup>3</sup>*Maria Curie-Skłodowska University, Faculty of Chemistry, Lublin, Poland*
- P-19 Comprehensive mapping of the psoriatic skin proteome using mass spectrometry**  
*Andrzej Gawor<sup>1</sup>, Anna Ruszczyńska<sup>1</sup>, Olha Dushna<sup>1</sup>, Karol Pniewski<sup>2</sup>, Witold Owczarek<sup>2</sup> and Ewa Bulska<sup>1</sup>*  
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- P-20 Single-cell ICP-MS for quantifying cisplatin uptake in veterinary-relevant cell models: Bridging application and instrumentation**  
*Balázs Berlinger<sup>1</sup>, Gábor Andócs<sup>1</sup>, Minyu Zou<sup>2</sup> and Csaba Kövágó<sup>1</sup>*  
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- P-21 Calibration of single-particle ICP-MS and its application on antibacterial products**  
*Wan-waan Lee<sup>1</sup> and Jingbo Chao<sup>2</sup>*  
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- P-22 Three-dimensional and immuno-mass spectrometry imaging of HfO<sub>2</sub> nanoparticles in breast cancer tissue by LA-ICP-TOFMS**  
Lingna Zheng<sup>1</sup>, Meng Wang<sup>1</sup>, Weiyue Feng<sup>1</sup>, Frank Vanhaecke<sup>2</sup>  
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- P-23 Plasma-based CE-ICP-MS/MS study of formation and physiological alterations in cisplatin–gold nanoparticle delivery systems**  
K. Nowak, D. Dąbrowski and M. Matczuk  
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- P-24 Characterization of gold nanoparticle–cisplatin DDSs using two different CE–ICP-MS interfaces**  
Damian Dąbrowski, Kinga Nowak and Magdalena Matczuk  
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