Tentative Programme for

FMSS Fall Seminar 27.11.2024 University of Helsinki, Kumpula Campus

9.30-10.00 Coffees and Discussions with sponsors at exhibition

10.00-11.30 Session 1 (Chemicum A129)

10.00-10.05 Welcome words (Elina Kalenius, FMSS)
10.05-10.35 Juuso Laitila, HY

Tannin-pigment adducts in red wine and their mass spectrometric analysis

10.35-10.55 Daniel Lindroos, Waters

Development and Applications of Next Generation of Time of Flight Technology

10.55-11.15 Nina Sarnela, INAR

From Reactive Trace Gases to Aerosol Particles: The Key Role of Mass Spectrometers in Atmospheric Science

11.15-11.35 Anders Feldthus, Agilent Technologies

New Agilent ultrahigh sensitive 6495D LC-QQQ system and new Infinity III LC series

11.35-13.00 Lunch Break, Discussions with sponsors at exhibition

13.00-14.30 Session 2 (Chemicum A129)

13.00-13.30 Markus Metsälä, HY

Mass spectrometric studies of volatiles in exhaled breath and bacterial headspace

13.30-13.50 Tony Wiklund, Thermo Fisher Scientific

Discovery to validation at unprecedented scale - Stellar mass spectrometer

13.50-14.10 Arja Valtanen, Laboratory Manager VERIFIN

Finnish Institute for Verification of the Chemical Weapons Convention

14.10-14.30 H.J. Jost, CEO Karsa Oy

Multi-pressure Chemical Ionization Mass Spectrometry for environmental and security applications

14.30-15.00 Coffees and discussions at sponsor stands

15.00-17.00 Laboratory Tours

17.00-18.00 FMSS Annual meeting (Chemicum A128)

VERIFIN

VERIFIN is an institute in the Department of Chemistry under the Faculty of Science in the University of Helsinki. VERIFIN was established in 1994, as continuation of the Chemical Weapons (CW) research project working since 1973. Operations of VERIFIN are mainly funded by the Ministry for Foreign Affairs of Finland. VERIFIN supports the disarmament of chemical weapons by development of identification methods for chemical warfare agents (CWA). The main activities at VERIFIN consist of research, teaching, administration and collaboration with domestic and international organisations which work to prohibit and monitor the use of chemical weapons.

KARSA

The core of our technology at Karsa lies in the ability to analyze airborne chemical compounds with high sensitivity and selectivity, bypassing traditional chromatographic techniques. We developed a Multi-scheme chemical ionization inlet that allows the customization of reagent ions to suit specific applications and rapid switching between them. Recently, our team demonstrated a novel method, that combines high- and low-pressure chemical ionization in a single system.

INAR

Institute for Atmospheric and Earth System Research (INAR) is a multi- and interdisciplinary research unit based in physics, chemistry, meteorology, forest sciences, environmental sciences and social sciences in the University of Helsinki. In Kumpula laboratories we study air chemistry and the physical and chemical properties of aerosol particles and trace gases and we have possibilities for chamber, flow tube and field measurements. In Kumpula we have ACTRIS calibration center for measurements of condensable vapours with chemical ionization mass spectrometers and SMEAR III station for semi-urban atmospheric measurements.

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