NORDIC SCIENTIFIC FORUM
10-11 MARCH 2016 GOTHENBURG

NORDIC SCIENTIFIC FORUM

**Date:** Thursday 10 March-Friday 11th March, 2016

**Location:** Lindholmen Conference Center, Gothenburg

**Time:** Thursday 10 March 09:00 - Friday 11th March 15:15


**DAY 1 AGENDA OVERVIEW**

9:00 - 11:30 Early Bird Training Courses

**Early Bird Training Course 1** Training on Agilent MassHunter software Qual and Quant – Tips and tricks for successful processing of your data

**Early Bird Training Course 2** Master class on Agilent Mass Profiler Professional software – Advanced statistics in profiling

**Early Bird Training Course 3** Educational training on Liquid Chromatography – Succeed in your LC analysis from basic separations to advanced methods

**Early Bird Training Course 4** Educational training on Gas Chromatography – Bringing you 50 years of experience in successful gas phase chromatographic separations

**Early Bird Training Course 5** Sample preparation – From manual methods to fully automated systems

**Early Bird Training Course 6** Keep your ICP-MS analysis in race condition, education on masshunter and hardware.

11:00-13:00 Registration

12:00-13:00 Lunch

13:00 Opening

13:15 “The Chemistry of love” Key note speaker - Jonas Bergqvist, Uppsala University

14:15 Parallel sessions

15:15 Break

19:00 Evening Dinner
SESSION FORENSIC/TOXICOLOGY/DOPING/CLINICAL

14:15 Future trends in doping control analysis
Bernhard Wuest, Agilent Technologies

14:45 Strategies for drug screening of the increasing number of new psychoactive substances (NPS)
Martin Josefsson, The National Board of Forensic Medicine.

15:15 Break

15:45 Creation and use of PCDL’s
Peter Abrahamsson, Agilent Technologies

16:15 TBA

16:45 High sensitivity GC/MS/MS analysis in doping control analysis
Kamila Kalachova, Agilent Technologies

SESSION ACADEMIA/OMICS BASED RESEARCH

14:15 Agilent and Academia - Partners in Innovation and Education
Stefan Mattmueller, Agilent Technologies

14:45 Ion mobility spectroscopy as a powerful separation dimension in LC-MS
Oliver Schmitz, University of Duisburg

15:15 Break

15:45 Metabolomics reveals novel signal mechanisms in cancer metastasis process and chemotherapeutic resistance
Anders Nordström, Swedish Metabolomics Center

16:15 Signal processing for 2D chromatographic data
Giorgio Tomasi, Copenhagen University

16:45 MassProfiler Professional for differential expression analysis
Joachim Thiemann, Agilent Technologies

SESSION ENVIRONMENTAL / FOOD

14:15 Latest advancements in the analysis of environmental samples - An Agilent perspective
Peter Abrahamsson, Agilent Technologies

14:45 Analysis of per- and polyfluoroalkyl substances in water
Lutz Ahrens, Swedish University of Agricultural Sciences

15:15 Break

15:45 How does milk look like - an untargeted approach in LC-MS
Lene Buhelt Johansen, Arla Foods Innovation

16:15 Targeted screening for pesticide residues in cereals by GC-QTOF
Mette Erecius Poulsen, DTU Food

16:45 Analytical Instrument Qualification (AIQ) as part of ISO17025 accreditation
Garry Wright, Agilent Technologies

SESSION PHARMA / BIOPHARMA

14:15 Agilent solutions and workflows for Pharma and Biopharma
Donna Potts, Agilent Technologies

14:45 Challenges in analyzing non-purified synthesized peptide vs chromatographic purified peptide
Jörgen Sjögren, Ferring

15:15 Break

15:45 Two-Dimensional LC in Pharmaceutical Analysis
Christian Gotenfels, Agilent Technologies

16:15 SPE in combination with HILIC. Really something for pre-clinical Drug Discovery?
Anders Lundqvist, AstraZeneca

16:45 Sample preparation for the characterization of Biologics, intelligently automated
Alanna Connelly, Agilent Technologies

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SESSION CHEMICAL/PETROCHEMICAL/ PULP&PAPER /ENERGY

14:15 Agilent solutions for the Analysis of Biofuels
Juan Aybar, Agilent Technologies

14:45 Biorefinery - Generating high value products from wood
Cecilia Mattsson and Merima Hasani, Chalmers University of Technology

15:15 Break

15:45 GC×GC in the petrochemical world: approaching challenges from a 2D perspective
Sander Affourtit, JSB Netherlands

16:15 R&D activities of biomass thermochemical conversion and its future: Utilization of gas-chromatography techniques (µGC and GC-MS-FID)
Kentaro Umeki, Luleå University of Technology

16:45 Recent Developments in GC: Integrated Particle Traps, Better GC Connections and Deactivation Topics
Jan Willem Marinissen, Agilent Technologies

SESSION ICP-MS USER MEETING /ELEMENTAL ANALYSIS

14:15 Novelties with Agilent ICP-MS: New MassHunter Platform and ICP-MS Portfolio
Sebastien Sannac, Agilent Technologies

14:45 Measurement of toxic and essential trace elements in human biological media
Michael Levi, Karolinska Institute

15:15 Break

15:45 Determination of LOQ using the approach from the Eurachem Guide
Bertil Magnusson, SP Technical Research Institute of Sweden

16:15 What you can not do with a MP-AES
Stefan Karlsson, Örebro University

16:45 Solution approach: a new Dimension in ICP-MS analysis
Jean-Pierre Lener, Agilent Technologies

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DAY 2 AGENDA OVERVIEW

08:30 Agilent CrossLab services - From insight to outcome
Will Coulter, Agilent Technologies

09:15 New insights into a lab wide software solutions – A sneak preview into Agilent latest software products
Thomas Schmidt, Agilent Technologies

10:00 Break

10:30 Parallel sessions

12:00 Lunch

13:30 Parallel sessions

15:00 Closing remarks & End of symposium

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SESSION FORENSIC/TOXICOLOGY/DOPING/CLINICAL

10:30 Importance of Ultra Inert Flow Path for Compound Screening with GC/MS
Jan Willem Marinissen, Agilent Technologies

11:00 High sensitivity LC/MS/MS in doping control analysis
Ingunn Hullstein, Oslo universitetssykehus, WADA Lab Oslo

11:30 Multicomponent screening of doping substances with GC-MS/MS
Petter Tollbäck, Karolinska University Hospital, WADA Dopinglab

12:00 Lunch

13:30 The daily challenge of analyzing drugs
Åsa Klasén, National Forensic Center

14:00 How to optimize the LC part of an LC/MS System for better and faster analytical results
Christian Gotenfels, Agilent Technologies

14:30 TBA
Garry Wright, Agilent Technologies

15:00 Closing remarks

SESSION ACADEMIA/OMICS BASED RESEARCH

10:30 Latest advancements in ion mobility analysis
Anthony Sullivan, Agilent Technologies

11:00 Marine eco-systems biology - Linking ecological, environmental and biogeochemical data with ‘omics’ analysis
Harald Sheetal-Hasler, Southern University of Denmark

11:30 Whole grain phytochemicals and bioavailability in mouse and man – non-targeted metabolite profiling approach
Kati Hanhineava, University of Eastern Finland

12:00 Lunch

13:30 Development of a novel metabolomics method using AIF with a custom PCDL
Shama Naz, Karolinska Institutet

14:00 Improving Confidence and Reducing Costs in Therapeutic Oligonucleotide Characterization
Paul Barton, Agilent Technologies

14:30 Easy solutions for complex analysis: A complete solution for complex Workflows
Luca Godina, Agilent Technologies

15:00 Closing remarks
SESSION ENVIRONMENTAL / FOOD

10:30 Fast Multi-LC-Method for Analysis of High and Low-dosed Water-soluble Vitamins
Christian Gotenfels, Agilent Technologies

11:00 Intake of different combinations of dairy fat and proteins and their effect on the metabolic profile - Assessed by an untargeted metabolomics approach using NMR, LC- and GC Q-ToF
Trine Kastrup Dalsgaard, Aarhus University

11:30 Enhanced peak capacity – the way to comprehensive analysis of chemical cocktails in the environment?
Peter Haglund, University of Umeå

12:00 Lunch

13:30 Ultra-high sensitivity analysis of pesticides in complex food matrices utilizing the 7890/7010 GCQQQ system
Kamila Kalachova, Agilent Technologies

14:00 Analysis of legacy and emerging flame retardants using GC-EI-MS, GC-CI-MS and GC-EI-MS/MS
Jakob Gustavsson, Swedish University of Agricultural Sciences

14:30 Enhanced Matrix Removal – Remove the Lipids, Find your Analytes
Jan Willem Marinissen, Agilent Technologies

15:00 Closing remarks

SESSION PHARMA / BIOPHARMA

10:30 Preparing your laboratory for a data integrity audit
Garry Wright, Agilent Technologies

11:00 Analysis of Extractables & Leachables Utilizing Ultra High-Performance Liquid Chromatography, Quadrupole Time-of-Flight Mass Spectrometry
Kristina Möller, GE Healthcare

11:30 Investigation of lung drug metabolizing enzyme activity in vitro using enzyme-selective substrates and metabolite LC-MS analysis on an Agilent 6560 Q-Tof IMS mass spectrometer
Anna Abrahamsson, AstraZeneca

12:00 Lunch

13:30 Ionization techniques for atmospheric pressure ionization
Tiina Kauppila, University of Helsinki

14:00 Faster, more accurate characterization of proteins and peptides with Agilent MassHunter BioConfirm Software
Donna Potts, Agilent Technologies

14:30 Advances in Size Exclusion Chromatography of Proteins
Paul Barton, Agilent Technologies

15:00 Closing remarks

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SESSION CHEMICAL/PETROCHEMICAL/PULP&PAPER/ENERGY

10:30 Agilent, Solutions at your doorstep
Luca Godina, Agilent Technologies

11:00 Optimized utilization of Q-TOF technology in our daily work
Johan Raab, Perstorp AB

11:30 Mass spectrometric characterization of Jet Fuel oxidation products
Elias Ikonen, Neste Oil Oy

12:00 Lunch

13:30 TBA

14:00 TBA

14:30 Benefits of a Client Server Solution
Mathias Larsson, Agilent Technologies

15:00 Closing remarks

SESSION ICP-MS USERMEETING/ELEMENTAL ANALYSIS

10:30 Examples of use of Agilent 8800 ICP-QQQ in food research - speciation analysis and nanoparticle detection
Jens Jørgen Sloth, DTU food

11:00 Latest LA-ICPMS results of Geofluids
Thomas Wagner, Helsinki University

11:30 Tips and Tricks for Agilent ICP-MS
Glenn Woods, Agilent Technologies

12:00 Lunch

13:30 Bioimaging and and quantitative analysis of very small tissue samples originating from the modelplant Arabidobis Thaliana
Thomas Hesselhøj Hansen, University of Copenhagen

14:00 LA-ICP-MS trace element and isotopic analysis with the Agilent 8800QQQ-benefits of using SF6 as a reaction gas
Thomas Zack, Gothenburg University

14:30 ICP-MS in routine clinical practice
Niclas Forsgard, Sahlgrenska Universitetssjukhuset

15:00 Closing remarks