

Wednesday January 27, 2016

09:00 **HTC-14 Opening Ceremony**

Session Chairs:

Dr John LANGLEY (UNIVERSITY OF SOUTHAMPTON, Southampton, United Kingdom)
Prof. Frederic LYNEN (GHENT UNIVERSITY, Ghent, Belgium)

09:15 **PL01 - Building the Ideal Chromatography System: Why, What and How**

Prof. Gert DESMET
(VRIJE UNIVERSITEIT BRUSSEL (VUB), Brussels, Belgium)

10:00 **PL02 - The Power of LC-MS and LCxLC in the Characterization of Recombinant Proteins, Monoclonal Antibodies and Antibody-drug Conjugates.**

Dr Koen SANDRA
(RESEARCH INSTITUTE FOR CHROMATOGRAPHY, Kortrijk, Belgium)

10:45 **Coffee Break & Exhibition**

Session Petrochemical and Industrial Analysis

Session Chair:

Dr Joeri VERCAMMEN
(INTERSCIENCE, Louvain-la-Neuve, Belgium)

11:15 **KL01 - Expanding GCxGC Hyphenation**

Prof. Robert SHELLIE
(TRAJAN SCIENTIFIC AND MEDICAL, Melbourne, Australia)

11:45 **KL02 - Detailed Crude Oil Analysis: GCXGC, Field Ionization Mass Spectrometry and Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Join Forces**

Prof. Kevin VAN GEEM
(UGENT, gent, Belgium)

12:15 **OC01 - Flow-Modulation Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry Using ? 4 mL/min Gas Flows**

Prof. Peter TRANCHIDA
(UNIVERSITY OF MESSINA, Messina, Italy)

12:35 **OC02 - Improvement of Retention Time Prediction in Liquid Chromatography**

Dr Roman SZUCS
(PFIZER, United Kingdom)

Session High-Performance Separations

Session Chair:

Dr Thorsten TEUTENBERG
(INSTITUT FÜR ENERGIE- UND UMWELTTECHNIK E.V., Duisburg, Germany)

11:15 **KL03 - Towards Hyperformance Two-Dimensional Liquid Chromatography**

Prof. Peter SCHOENMAKERS
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

11:45 **KL04 - Hyphenation of Intact Protein Separation and Mass Spectrometry for Characterization of Biopharmaceuticals**

Prof. Govert SOMSEN
(VU UNIVERSITY AMSTERDAM, Amsterdam, The Netherlands)

12:15 **OC03 - Kinetic Gain Factors and Peak-Compression Effects in Ultra-High-Pressure LC**

Prof. Sebastiaan EELTINK
(VRIJE UNIVERSITEIT BRUSSEL (VUB), Brussels, Belgium)

12:35 **OC04 - Successful Generic Approaches for Heartcutting 2DLC with Focus on Userfriendliness**

Programme

Mrs Isabelle FRANÇOIS
(WATERS, ZELLIK, Belgium)

Session Hyphenated Approaches

Session Chairs:

Prof. Valerie PICHON (ESPCI, Paris, France)
Mr Bob PIROK (UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

11:15 YeS01 - Comparison of a Triple Quadrupole and a Quadrupole Time-of-Flight Mass Analyser to Quantify 16 Opioids in Human Plasma

Mr Johan VIAENE
(VRIJE UNIVERSITEIT BRUSSEL, Jette, Belgium)

11:30 YeS02 - Secondary Electrospray Ionization (SESI) and UHPLC Coupled to HRMS Allow the Identification and Quantification of Benzothiazoles in Exhaled Breath and Exhaled Breath Condensate

Dr Diego GARCIA-GOMEZ
(ETH ZÜRICH, Zürich, Switzerland)

11:45 YeS03 - Comparison of HILIC-MS and RPLC-MS Performance in Terms of Sensitivity and Matrix Effects

Ms Aurélie PÉRIAT
(UNIVERSITY OF GENEVA, Geneva, Switzerland)

12:00 YeS04 - Evaluation of a New API Source: Improved Sensitivity for Pharmaceutical Analysis

Mr Arnaud LUBIN
(JANSSEN PHARMACEUTICA, BEERSE, Belgium)

12:20 Poster Flash presentations

12:20 FP01 - María Mateos-Vivas (HS07)
12:25 FP02 - Abdelhakim Bounab (HT01)
12:30 FP03 - Ana Carolina Kogawa (HT04)
12:35 FP04 - Philipp Schulze (ED03)
12:40 FP05 - Ravindra Hegade (NM05)

12:55 Lunch Break, Exhibition & Vendor Seminars by Postnova Analytics, Sciex Separations and Waters Corporation (13:30 – 14:15)

Session Ionization Techniques and Mass Spectrometry

Session Chair:

Prof. Jean-François FOCANT
(UNIVERSITY OF LIÈGE (ULG), Liège, Belgium)

14:15 KL05 - Application of GCxGC-TOFMS and GCxGC-High Resolution TOFMS for Detection of Petrochemical and Particulate Matter (PM) Samples

Prof. Ralf ZIMMERMANN
(U. ROSTOCK & HELMHOLTZ ZENTRUM MÜNCHEN, München, Germany)

14:45 KL06 - Shapes, Sizes and More - Ion Mobility for Sample Separation and Characterization

Prof. Dr Frank SOBOTT
(UNIVERSITY OF ANTWERP, Antwerp, Belgium)

15:15 OC05 - HPLC with Drift-Tube Ion Mobility and Time-of-Flight Mass Spectrometry: Assessment of Separation and Feature Alignment/Annotation Capabilities

Dr Tim CAUSON
(UNIVERSITY OF NATURAL RESOURCES AND LIFE SCIENCES (BOKU VIENNA), Vienna, Austria)

15:35 OC06 - Liquid-Junction Based CE/MS Interfacing for Proteomic, Glycomic and Metabolomic Analyses

Dr Jana KRENKOVA
(INSTITUTE OF ANALYTICAL CHEMISTRY OF THE CAS, V.V.I., Brno, Czech Republic)

Session New Method Development Strategies and Chemometrics

Session Chair:

Dr Achim TREUMANN
(NEWCASTLE UNIVERSITY, Newcastle, United Kingdom)

14:15 KL07 - Bridges over Troubled Waters: Strategies for HPLC Method Development Of Complex Samples

Programme

Dr Stefan LAMOTTE
(BASF SE, Ludwigshafen, Germany)

14:45 KL08 - On the Use of Bayesian Methods for Automated Data Analysis

Dr Gabriel VIVO TRUYOLS
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

15:15 OC07 - Nano UHPLC-ESI-MS/MS for the In Vivo Monitoring of Neuropeptides in the Rodent Brain

Prof. Ann VAN EECKHAUT
(FREE UNIVERSITY OF BRUSSELS (VUB), Brussels, Belgium)

15:35 OC08 - Peaks Behaving Badly: Application of 2D-LC to Determine and Control the Reactivity of Samples of a Drug Product Under Different Analytical Conditions During Method Development

Dr Claudio BRUNELLI
(PFIZER, Sandwich, United Kingdom)

Session Emerging Applications

Session Chairs:

Mr Giacomo RUSSO (UGENT, Ghent, Belgium)
Prof. Ian D. WILSON (IMPERIAL COLLEGE LONDON, London, United Kingdom)

14:15 Workshop: "How to Write a Paper"

Dr John LANGLEY
(UNIVERSITY OF SOUTHAMPTON, Southampton, United Kingdom)

14:30 YeS05 - Evaluation of a New Strategy for the Simultaneous Analysis of Pharmaceuticals with a Broad Polarity Range in Water

Mr Glenn LOOS
(KU LEUVEN, Leuven, Belgium)

14:45 YeS06- The Use of Both Liquid and Gas Chromatography Coupled to Mass Spectrometry in the Domain of Food Contact Materials: Migration of Phthalates and Cereals in Breakfast Cereals

Ms Kathy VAN DEN HOUWE
(WIV-ISP, Brussel, Belgium)

15:00 YeS07 - In Vitro Monitoring of Human Tissues Degradation by TD-GC×GC-TOFMS

Mr Pierre-Hugues STEFANUTO
(UNIVERSITY OF LIÈGE, Liège, Belgium)

15:20 Poster Flash presentations

15:20 FP06 - Ariane Boudier (CF01)

15:25 FP07 - Gerardus Cremers (NM01)

15:30 FP08 - Claudia Oellig (FA02)

15:35 FP09 - Annick Van Wanseele (HS13)

15:40 FP10 - Martyna Baca (HS01)

15:55 Coffee Break & Exhibition

Session Emerging Technologies for Industry

Session Chair:

Prof. Peter J. SCHOENMAKERS
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

16:30 KL09 - Is the Claimed State-of-the-art GCXGC Overshadowing the Power of Heart-cut Two-dimensional GC?

Dr Frank DAVID
(RESEARCH INSTITUTE FOR CHROMATOGRAPHY, Kortrijk, Belgium)

17:00 OC09 - Chemically Sensitive SEC Detection with FTIR and Low Field NMR Spectroscopy

Prof Manfred WILHELM
(KARLSRUHER INSTITUT FÜR TECHNOLOGIE (KIT), Karlsruhe, Germany)

17:20 Industry Pitch: Knauer

"Why spatially Separate Flow Cell from Detector? Key Applications of KNAUER Fiber Optic Technology"

17:30 Industry Pitch: Markes

"Complete Characterisation of Diesel Exhaust Emissions by GCxGC-TOF MS with Soft Electron Ionisation"

Programme

- 17:40 Industry Pitch: Postnova**
"A Novel Modular Triple/Tetra Detection GPC/SEC System Incorporating SEC-MALS: Exploring Molecular Weight, Molecular Structure And Chemical Composition Of Polymers, Polysaccharides, Proteins And Conjugates"
- 17:50 Industry Pitch: Shimadzu**
"SFE-SFC-MS – Unified Chromatography : The Latest Addition to the Chromatography Toolbox"

Session On-line Analyzers and GC

Session Chair:

Prof. Robert SHELLIE
 (TRAJAN SCIENTIFIC AND MEDICAL, Melbourne, Australia)

- 16:30 KL10 - New Applications of Laboratory Chromatographs as Automated Online-Analyzers for Wastewater Analysis**
 Dr Monika WORTBERG
 (BASF SE, Ludwigshafen, Germany)
- 17:00 OC10 - Ultratrace Analysis of Oxygenates**
 Dr Joeri VERCAMMEN
 (INTERSCIENCE, Louvain-la-Neuve, Belgium)
- 17:20 OC11 - Characterizing the Smell of Marijuana with Multidimensional Gas Chromatography - Mass Spectrometry - Olfactometry**
 Dr Jacek KOZIEL
 (IOWA STATE UNIVERSITY, Ames, IA, United States)
- 17:40 OC12 - GC×GC-TOF MS with Soft Electron Ionisation for Enhanced Characterisation of Allergens in Cosmetics**
 Dr Laura MCGREGOR
 (MARKES INTERNATIONAL , Llantrisant, United Kingdom)

Session New Detection Possibilities

Session Chair:

Dr Diego GARCIA-GOMEZ (ETH ZÜRICH, Zürich, Switzerland)
 Dr Erwin KAAL (DSM, Delft, The Netherlands)

- 16:30 YeS08 - Mediating Chromatographic Dilution in One- and Two-Dimensional Liquid Chromatography by Post-Column Refocusing**
 Mr Jelle DE VOS
 (VRIJE UNIVERSITEIT BRUSSEL, Brussel, Belgium)
- 16:45 YeS09 - The Application of Acetone Acetals as Water Scavengers And Novel Derivatisation Agent Prior to the Gas Chromatographic Analysis of Polar Residual Solvents In Aqueous Samples**
 Mr Niels VAN BOXTEL
 (KU LEUVEN, Leuven, Belgium)
- 18:00 Poster Session & Belgian Beer Tasting Event**

Thursday January 28, 2016

Knox Award Session

Session Chair:

Dr John LANGLEY
(UNIVERSITY OF SOUTHAMPTON, Southampton, United Kingdom)

**08:30 PL03 - Knox Award Lecture
SFC: No Regrets**

Prof. Dr Keith BARTLE
(THE UNIVERSITY OF LEEDS, United Kingdom)

09:15 KL11 - Selective Ionisation with High Resolution Mass Spectrometry ? The Future for Hyphenation in the Petrochemical Industry?

Mr Tom LYNCH
(BP GLOBAL LUBRICANTS TECHNOLOGY, Reading, United Kingdom)

Session LC-MS Profiling and Method Development

Session Chair:

Dr Koen SANDRA
(RESEARCH INSTITUTE FOR CHROMATOGRAPHY, Kortrijk, Belgium)

09:45 TU01 - Tutorial: Optimisation of LCMS Conditions for Proteomics Experiments

Dr Achim TREUMANN
(NEWCASTLE UNIVERSITY, Newcastle, United Kingdom)

10:15 KL12 - High-Sensitivity Bioanalysis of Proteins by LC-MS/MS Without the Use of Antibodies

Prof. Rainer BISCHOFF
(UNIVERSITY OF GRONINGEN, Groningen, The Netherlands)

Session The Power of Hyphenation

Session Chair:

Prof. André DE VILLIERS
(STELLENBOSCH UNIVERSITY, Stellenbosch, South Africa)

09:45 KL13 - Hyphenated Techniques for Organic and Inorganic Analysis in Order to Ensure Patient Safety

Dr David CLICQ
(UCB PHARMA, Braine L'alleud, Belgium)

10:15 KL14 - Smaller, Better, Faster - Strategies for Metabolite Profiling and Phenotyping

Prof. Ian D. WILSON
(IMPERIAL COLLEGE LONDON, London, United Kingdom)

Session Column Technology

Session Chairs:

Bert WOUTERS (VRIJE UNIVERSITEIT BRUSSEL, Belgium)
Prof. Ralf ZIMMERMANN (U. ROSTOCK & HELMHOLTZ ZENTRUM MÜNCHEN, München, Germany)

09:45 YeS10 - Synthesis of Molecular Imprinted Polymers for the Selective Extraction of Organophosphorous Pesticides in Vegetable Oils

Ms Sara BOULANOUAR
(ESPCI, PARIS, France)

10:00 YeS11 - Effect of Polyethylene Glycol on Pore Structure and Separation Efficiency of Silica-Based Monolithic Capillary Columns

Dr Takeshi HARA
(VRIJE UNIVERSITEIT BRUSSEL, Brussel, Belgium)

10:15 YeS12 - Optimization of On-Column Trypsin Digestion Coupled with IDMS for Quantitative Analysis of Apolipoproteins

Programme

Dr Zsuzsanna KUKLENYIK
(CENTERS FOR DISEASE CONTROL AND PREVENTION, Atlanta, United States)

- 10:30 YeS13 - Development of Supercritical Fluid Chromatography Methods with Mass Spectrometry and U.V. Detection for the Characterization of Fast Pyrolysis Bio Oils**

Mr Julien CREPIER
(IFPEN, Solaize, France)

- 10:45 Coffee Break & Exhibition**

Session Analysis of Biopharmaceuticals

Session Chair:

Dr Scott FLETCHER
(CRAWFORD SCIENTIFIC, Strathaven, United Kingdom)

- 11:15 TU02 - An Introduction to Biopharmaceutical Analysis**

Prof. David PERRETT
(QUEEN MARY'S UNIVERSITY OF LONDON, London, United Kingdom)

- 11:45 KL15 - Modern Liquid Chromatographic Approaches for the Analytical Characterization of Biopharmaceuticals**

Dr Davy GUILLARME
(UNIVERSITY OF GENEVA, Geneva, Switzerland)

- 12:15 OC13 - Capillary Electrophoresis Supporting Viral Vaccine Development**

Dr Cari SANGER
(KANTISTO, Baarn, The Netherlands)

- 12:35 OC14 - Can UHPLC High Speed Separations be Employed in a Multidimensional Approach for Bio Therapeutic Protein Analysis?**

Dr Ken COOK
(THERMO FISHER SCIENTIFIC, Newcastle upon Tyne, United Kingdom)

Session Fundamentals in Separation Science

Session Chair:

Prof. Gert DESMET
(VRIJE UNIVERSITEIT BRUSSEL (VUB), Brussels, Belgium)

- 11:15 TU03 - Description and Prediction of the Shape of Chromatographic Peaks: A Tutorial**

Dr Wim KOK
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

- 11:45 KL16 - Assessment of Intra-particle Diffusivity in Hydrophilic Interaction Chromatography (HILIC) and Reversed-phase Liquid Chromatography (RPLC) under Conditions of Identical Packing Structure**

Prof. Deirdre CABOOTER
(KU LEUVEN, Leuven, Belgium)

- 12:15 OC15 - The Art of Column Thermostatting in the Presence of Frictional Heating?**

Dr Frank STEINER
(THERMO FISHER SCIENTIFIC, Germering, Germany)

- 12:35 OC16 - Simpler, Better, Faster - The Hyphenated Potential of Planar Chromatography**

Prof. Gertrud MORLOCK
(JUSTUS LIEBIG UNIVERSITY GIESSEN, Giessen, Germany)

Session GC and GCxGC

Session Chairs:

Prof. Kevin VAN GEEM (UGENT, gent, Belgium)
Mr Niels VAN BOXTEL (KU LEUVEN, Leuven, Belgium)

- 11:15 YeS14 - Development and Validation of a Rapid Detection Method for Boar Taint by Means of Solid Phase Microextraction and a Person-Portable GC-MS**

Ms Kaat VERPLANKEN
(GHENT UNIVERSITY, Merelbeke, Belgium)

- 11:30 YeS15 - Isolation of Unknown Molecules from Plant Extracts Exploiting a Multidimensional GC-Prep System Followed By NMR, MS and FTIR for Structural Identification**

Programme

Prof. Danilo SCIARRONE
(UNIVERSITY OF MESSINA, Messina, Italy)

11:45 YeS16 - The Power of Reverse Phase Comprehensive 2D GC for Oxygentate Analysis in Shale Oils

Ing Nenad RISTIC
(UNIVERSITEIT GENT, Gent, Belgium)

12:00 YeS17 - Characterization of Human Exhaled Breath for Non-Invasive Detection of Diseases by GC×GC-TOFMS

Mr Romain PESESSE
(UNIVERSITY OF LIÈGE, Liège, Belgium)

12:20 Poster Flash presentations

12:20 FP11 - Lena Dubois (CD02)
12:25 FP12 - Hilal Toraman (NP07)
12:30 FP13 - Katelynn Perrault (CF10)
12:35 FP14 - Mariarosa Maimone (NM06)
12:40 FP15 - Benjamin Savareear (NP08)

12:55 Lunch Break, Exhibition & Vendor Seminars by Shimadzu and Thermo Scientific (13:30 – 14:15)

Session Biological Sample Preparation

Session Chair:

Dr Robert BOUGHTFLOWER
(GLAXOSMITHKLINE, Stevenage, United Kingdom)

14:15 TU04 - Sample Preparation for Bioanalysis in Clinical Laboratories: Practicalities and Considerations

Dr Lewis COUCHMAN
(KING'S COLLEGE, London, United Kingdom)

14:45 KL17 - Solid Phase Micro-Extraction, Sketching the Future of Microsampling in Bioanalysis

Dr Sheelan AHMAD
(GSK, Hertfordshire, United Kingdom)

15:15 OC17 - Dried Blood Microsamples in the Bioanalytical Lab

Prof. Christophe STOVE
(UGENT, Ghent, Belgium)

15:35 OC18 - Development of a Low Volume Dispersive Liquid-Liquid Microextraction Method for Simultaneous Determination of Illicit Psychoactive Drugs in Blood

Dr Stefan LOUW
(UNIVERSITY OF NAMIBIA, Windhoek, Namibia)

Session Food Analysis

Session Chair:

Prof. Robert SHELLIE
(TRAJAN SCIENTIFIC AND MEDICAL, Melbourne, Australia)

14:15 TU05 - Hyphenated LC-MS and LC×LC-MS Techniques Reduce the Need for Extensive Sample Preparation for Accurate Analysis of Target Compounds.

Prof. Luigi MONDELLO
(UNIVERSITY OF MESSINA, Messina, Italy)

14:45 KL18 - Towards More Generic Methods for Food Analysis

Prof. Hans-Gerd JANSSEN
(UNILEVER RESEARCH VLAARDINGEN, Vlaardingen, The Netherlands)

15:15 OC19 - UHPLC Coupled to Hybrid High Resolution MS for Digestion Metabolomics and DNA Adductomics

Prof. Lynn VANHAECKE
(GHENT UNIVERSITY, Merelbeke, Belgium)

15:35 OC20 - Hyphenation of Asymmetrical Flow Field-Flow Fractionation (AF4) to ICP-MS for the Quantification of Protein Associated Metal Ions

Dr Erwin KAAL
(DSM, Delft, The Netherlands)

Programme

Session BioAnalysis

Session Chairs:

Prof. Ken BROECKHOVEN (VRIJE UNIVERSITEIT BRUSSEL (VUB), Brussels, Belgium)
Prof. Danilo SCIARRONE (UNIVERSITY OF MESSINA, Messina, Italy)

14:15 **YeS18 - Hyphenated Techniques in Clinical Sciences: GC×GC-HRTOFMS Approach in Metabolomics**

Mr Nicolas DI GIOVANNI
(UNIVERSITY OF LIÈGE, Liège, Belgium)

14:30 **YeS19 - Combining the Full Potential of UHPSFC-QTOF/MS and UHPLC-QTOF/MS for Efficient Natural Bioactives Analysis**

Mr Alexandre GRAND-GUILLAUME PERRENOUD
(UNIVERSITY OF GENEVA, Geneva, Switzerland)

14:45 **YeS20 - In-Line Drug Metabolism System Using Enzyme Immobilized Magnetic Nanoparticles in Capillary Electrophoresis**

Mr Pranov RAMANA
(KU LEUVEN, Leuven, Belgium)

15:00 **YeS21 - Quantitative Determination of Gadolinium Based Magnetic Resonance Imaging Contrast Agents in Urine and Hospital Wastewater by HPLC-ICP-QMS**

Mr Karel FOLENS
(UGENT, Gent, Belgium)

15:20 **Poster Flash presentations**

15:20 FP16 - Beate Gruber (CF04)
15:25 FP17 - Balazs Klencsar (HS05)
15:30 FP18 - Maud Bonichon (BS01)
15:35 FP19 - Eline Jurgens (HQ03)
15:40 FP20 - Stéphanie Hambye (HQ02)

15:55 **Coffee Break & Exhibition**

Session New Possibilities in Separation Science and Detection

Session Chair:

Prof. Deirdre CABOOTER
(KU LEUVEN, Leuven, Belgium)

16:30 **KL19 - CANCELLED**

Session Pushing Detection Limits in 2D-LC

Session chair:

Dr Frank STEINER
(THERMO FISHER SCIENTIFIC, Germering, Germany)

16:30 **KL20 - Macro and Micro-Scale Methods Using Large Volume Injections and Heart-Cutting 2D-LC for Ultrahigh Sensitivity Bioanalysis**

Dr Filip CUYCKENS
(JANSSEN R&D, Beerse, Belgium)

Session GC and SFC

Session Chair:

Dr Hernan CORTES (H.J. CORTES CONSULTING LLC / DOW CHEMICAL RET., Midland, United States)
Mr Alexandre GRAND-GUILLAUME PERRENOUD (UNIVERSITY OF GENEVA, Geneva, Switzerland)

16:30 **YeS22 - New Approaches in High Temperature Stable Polymerized Ionic Liquids as Stationary Phase in Gas Chromatography**

Mr Kevin ROELEVELD
(UGENT, Ghent, Belgium)

16:45 **YeS23 - Varied Approaches (CCC, SFE) for the Enrichment of Bioactive Cosmetic Compounds from Plant Seeds and Identification by Ultra High Performance SFC-HRMS**

Programme

Ms Johanna DUVAL
(ICOA , Orléans, France)

Session Chair:

Prof. Deirdre CABOOTER (KU LEUVEN, Leuven, Belgium)
Dr Joeri VERCAMMEN (INTERSCIENCE, Louvain-la-Neuve, Belgium)

17:00

Battle of the Guru's

Prof. Alexander MAKAROV (THERMO FISHER SCIENTIFIC, Bremen, Germany)
Dr Pat SANDRA (RESEARCH INSTITUTE FOR CHROMATOGRAPHY, Kortrijk, Belgium)
Prof. Peter SCHOENMAKERS (UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

20:00

Symposium Banquet

Programme

Friday January 29, 2016

09:00 Session Chairs:

Dr John LANGLEY (UNIVERSITY OF SOUTHAMPTON, Southampton, United Kingdom)
Mr Alasdair MATHESON (ADVANSTAR COMMUNICATIONS, United Kingdom)

**09:00 PL04 - The LCGC Lifetime Achievement Award:
An Academic Mentality in an Industrial Environment**

Dr Hernan CORTES
(H.J. CORTES CONSULTING LLC / DOW CHEMICAL RET., Midland, United States)

Session Environmental / Toxicology Analysis

Session Chair:

Prof. Gert DESMET
(VRIJE UNIVERSITEIT BRUSSEL (VUB), Brussels, Belgium)

09:45 KL21 - In-depth Analysis of Complex VOC Mixtures by GCxGC-HRTOFMS'

Prof. Jean-François FOCANT
(UNIVERSITY OF LIÈGE (ULG), Liège, Belgium)

10:15 KL22 - Detection and Quantification of Anthrax Toxins by Immunoaffinity and Mass Spectrometry

Dr John BARR
(CENTERS FOR DISEASE CONTROL AND PREVENTION, Atlanta, Georgia, United States)

Session Advances in Column Technology

Session Chair:

Dr Stephan BUCKENMAIER
(AGILENT TECHNOLOGIES, Waldbronn, Germany)

09:45 TU06 - Characterization and Analysis of the Efficiency and Speed of Chromatographic Columns

Prof. Ken BROECKHOVEN
(VRIJE UNIVERSITEIT BRUSSEL (VUB), Brussels, Belgium)

10:15 KL23 - Miniaturized and Selective Monoliths Coupled on Line to Nanolc for the Determination of Target Analytes at the Trace Level in Complex Samples

Prof. Valerie PICHON
(ESPCI, Paris, France)

Session Novel Separation Systems

Session Chairs:

Prof. Dr Frank SOBOTT (UNIVERSITY OF ANTWERP, Antwerp, Belgium)
Ms Aurélie PÉRIAT (UNIVERSITY OF GENEVA, Geneva, Switzerland)

09:45 YeS24 - Extending the Performance of Microfluidic Membrane Suppressors and Hyphenation with On-Chip Conductivity Detection for Ion-Exchange Chromatography

Ing Sam WOUTERS
(VUB, Brussels, Belgium)

10:00 YeS25 - Prospects of Flow Field Thermal Gradient GAS Chromatography (FF-TG-GC)

Dr Peter BOEKER
(UNIVERSITY OF BONN, Bonn, Germany)

10:15 YeS26 - Design Aspects for the Construction of a Microfluidic Device for Comprehensive Spatial Three-Dimensional Liquid Chromatography

Ing Bert WOUTERS
(UNIVERSITEIT VAN AMSTERDAM, Beverwijk, The Netherlands)

10:30 YeS27 - Vacuum Ultraviolet Spectroscopy as a Complementary Detection System to Mass Spectrometry for One- and Comprehensive Two-Dimensional GAS Chromatography

Mr Thomas GRÖGER
(HELMHOLTZ ZENTRUM MÜNCHEN, Neuherberg, Germany)

10:45 Coffee Break & Exhibition

Session Advance in SFC

Session Chair:

Dr John LANGLEY
(UNIVERSITY OF SOUTHAMPTON, Southampton, United Kingdom)

11:15 KL24 - Modern SFC: Current State and Future Prospects

Dr Caroline WEST
(UNIVERSITY OF ORLEANS, Orleans, France)

11:45 KL25 - UPC2 Coupled to both Inorganic and Organic Mass Spectrometers

Mr Christopher HOPLEY
(LGC, Teddington, United Kingdom)

12:15 OC21 - Importance of Reference Conditions in SFC

Dr Ruben DE PAUW
(VRIJE UNIVERSITEIT BRUSSEL, Elsene, Belgium)

12:35 OC22 - Metabolic Phenotyping of Mammalian Urine by SFC-HRMS

Dr Arundhuti SEN
(KING'S COLLEGE, London, United Kingdom)

Session Multi-Dimensional LC and GC-MS Separations

Session Chair:

Prof. Luigi MONDELLO
(UNIVERSITY OF MESSINA, Messina, Italy)

11:15 KL26 - Theory, Practice and Applications of Comprehensive 2-Dimensional Hydrophilic Interaction Chromatography X Reversed Phase Liquid Chromatography

Prof. André DE VILLIERS
(STELLENBOSCH UNIVERSITY, Stellenbosch, South Africa)

11:45 KL27 - A Critical Appraisal of Micro Liquid Chromatography in One- and Two-Dimensional Applications Coupled to Mass Spectrometry

Dr Thorsten TEUTENBERG
(INSTITUT FÜR ENERGIE- UND UMWELTTECHNIK E.V., Duisburg, Germany)

12:15 OC23 - Quantifying Target Compounds in Complex Matrices Using Multiple Heart-Cutting Two-Dimensional Liquid Chromatography

Dr Stephan BUCKENMAIER
(AGILENT TECHNOLOGIES, Waldbronn, Germany)

12:35 OC24 - Hyphenated Chromatographic Techniques for Complex Analysis of Lipid Samples

Prof. Paola DUGO
(UNIVERSITÀ DI MESSINA, Messina, Italy)

Session Fundamentals

Session Chair:

Mr Glenn LOOS (KU LEUVEN, Leuven, Belgium)
Prof. Ann VAN SCHEPDAEL (KU LEUVEN, Leuven, Belgium)

11:15 YeS28 - Optimizing On-Line RPLCXRPLC-MS for both Peak Capacity Enhancement and Matrix Effect Reduction. Application to the Separation of a Protein Digest

Mr Morgan SARRUT
(UNIVERSITY OF LYON, Villeurbanne, France)

11:30 YeS29 - Drug/phospholipid polar/electrostatic Interactions Estimated by IAM-HPLC as Indexes of the Transcellular Passive Diffusion of Ionisable Drugs. Relationships with in situ and in vitro Intestinal Permeability Data

Mr Giacomo RUSSO
(UGENT, Ghent, Belgium)

11:45 YeS30 - Insights into the Fundamentals of the Supercritical Fluid Extraction Process Using UV/VIS and Evaporative Light Scattering Detection

Mr Victor ABRAHAMSSON
(LUND UNIVERSITY, Lund, Sweden)

12:00 YeS31 - Interpretive Optimization of Two-Dimensional Resolution for LC×LC Separations with Gradient Elution in Both Dimensions

Programme

Mr Bob PIROK
(UNIVERSITY OF AMSTERDAM, Amsterdam, The Netherlands)

12:55 Lunch Break, Exhibition & Vendor Seminars

14:15 Finals Poster-Flash Presentations

Session Chairs:

Prof. Deirdre CABOOTER (KU LEUVEN, Leuven, Belgium)
Dr John LANGLEY (UNIVERSITY OF SOUTHAMPTON, Southampton, United Kingdom)
Prof. Frederic LYNEN (GHENT UNIVERSITY, Ghent, Belgium)

14:30 PL05 - Advances in LC and SFC Analysis

Prof. Jean-Luc VEUTHEY
(UNIVERSITY OF GENEVA, Geneva, Switzerland)

15:15 PL06 - Orbitrap Mass Spectrometry and Chromatography: the Road to a Perfect Marriage

Prof. Alexander MAKAROV
(THERMO FISHER SCIENTIFIC, Bremen, Germany)

16:00 Poster Awards and HTC Award

16:15 Closure

16:20 Farewell Drink